



Project File Report Municipal Class Environmental Assessment (Schedule B)

Reconstruction of Ferguson Lake Road (Phase 1)

**Township of Greater Madawaska
County of Renfrew, Ontario**

July 22, 2021

Greenview File: 102.21.025



13 Commerce Court
Bancroft, Ontario
613-332-0057
greenview-environmental.ca



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1.0 Introduction

1.1 Background

The Township of Greater Madawaska (Township) is a largely rural municipality in the County of Renfrew, Ontario (Figure 1). The Township owns and maintains a rural road network with the following characteristics, based on information contained within the 2020 Asset Management Plan (Township, 2020):

Road Type	Total Length in Kilometres (km)
Gravel	139.78
Low Class Bituminous (LCB)	36.83
Hot Mix Paved (HL4)	56.69

Ferguson Lake Road is a rural road in the Township, that provides single-lane vehicular access between Calabogie Road (County Road 508) and Kennelly Mountain Road. The condition rating for Ferguson Lake Road was deemed to be in a “Now Need” state with respect to the Township’s most recent Asset Management Plan (Township, 2020).

In late 2019, funding for the Reconstruction of Ferguson Lake Road Project was secured from the *Investing in Canada Infrastructure Program: Rural and Northern Stream* for the Phase 1 portion of the project including the 5.7 km road section from approximated Campground Side Road to Kennelly Mountain Road (Figure 1).

The Township retained Greenview Environmental Management Limited (Greenview) to provide the required planning and technical support for the Reconstruction of Ferguson Lake Road Project (Project). The Project is subject to the requirements of the Municipal Class Environmental Assessment (MCEA; Municipal Engineers Association [MEA], 2015) and the Environmental Assessment Act, R.S.O. 1990, Chapter E.18 (EAA).

The Project was identified as consistent with a Schedule B MCEA undertaking.

1.2 Municipal Class Environmental Assessment (MCEA) Process

The Township has completed the Schedule B MCEA process in accordance with the purpose of the EAA:

“...the betterment of the people of the whole or any part of Ontario by providing for the protection, conservation and wise management in Ontario of the environment. R.S.O. 1990, c. E.18, s. 2.”

The MCEA planning process was developed by the MEA as an alternative method to individual Environmental Assessments (EAs) for recurring municipal projects that are similar in nature, usually limited in scale and with a predictable range of environmental effects that would be expected to respond to mitigating measures.

The MCEA planning process does not require application for additional approvals under the EAA, provided the proponent has complied with the necessary requirements and procedures. These requirements and procedures include a full description of the project, consideration of alternatives, and identification of the impacts resulting from their implementation and continuance. The MCEA process also requires the proponent to inform and consult with the public, Indigenous Communities, and relevant agencies. Specific documents related to the MCEA planning and design process requirements are included in Appendix A:

- Exhibit A.1 – Key Features of the Municipal Class EA (MEA, 2015).
- Exhibit A.2 – Municipal Class EA Planning and Design Process (MEA, 2015).

The main elements of the MCEA planning process are incorporated into five (5) phases. The Schedule designation determines which phases are required to be followed for a particular project. The phases are summarized as follows:

- Phase 1 – Identify the problem (deficiency) or opportunity.
- Phase 2 – Identify alternative solutions to address the problem or opportunity by taking into consideration the existing environment, and establish the preferred solution, taking into account public and review agency input. At this point, determine the appropriate Schedule for the undertaking and document decisions in a Project File Report (PFR) for Schedule B projects (or proceed through Phases 3 and 4 for Schedule C projects).
- Phase 5 – Complete contract drawings and documents (detailed design phase), and proceed to construction and operation. While in construction and operation activities, monitor construction for adherence to environmental provisions and commitments. Where special conditions dictate, also monitor the operation of the completed facilities.

This project has been undertaken, and was confirmed by the regulatory authority, as a Schedule B MCEA undertaking, and thereby followed Phase 1 and 2 of the MCEA planning process (Exhibit A.2 – Municipal Class EA Planning and Design Process; Appendix A). Phase 5 is to be completed following the completion of the PFR and posting of the *Notice of Study Completion* required by the Schedule B MCEA process, and approval from relevant authorities, as required. The results of this MCEA Schedule B undertaking are documented in this PFR.

Upon review of this report and its contents, if concerns regarding this project cannot be resolved in discussions and/or mediation with the Proponent, as described in the *Stakeholder Consultation Plan* for the Project (Appendix B), the requirements of a Part II Order Process have changed. An update from the MEA dated September 03, 2020, states:

The Provincial government has amended the Environmental Assessment Act and the Part II Order Process (PIIOR) has now changed. Proponents are still required to place their Environmental Study Report (ESR) on the public record for 30 days; however, instead of concerns being filed with the Ministry as PIORs, concerns are to be addressed directly to the Proponent (i.e. Township). The PIOR process is reserved only if a concern(s) raised deals with aboriginal or treaty rights.

Per the MECP's revised wording for a Notice of Completion issued on January 05, 2021 (Appendix B), interested persons may provide written comments directly to the Township within thirty (30) days of posting of the Notice of Completion to the public record.

Per the MECP's Notice of Completion Template (Appendix B) issued on January 05, 2021:

In addition, a request may be made to the Ministry of the Environment, Conservation and Parks for an order requiring a higher level of study (i.e. requiring an individual/comprehensive EA approval before being able to proceed), or that conditions be imposed (e.g. require further studies), only on the grounds that the requested order may prevent, mitigate or remedy adverse impacts on constitutionally protected Aboriginal and treaty rights. Requests on other grounds will not be considered. Requests should include the requester contact information and full name.

Requests should specify what kind of order is being requested (request for conditions or a request for an individual/comprehensive environmental assessment), how an order may prevent, mitigate or remedy potential adverse impacts on Aboriginal and treaty rights, and any information in support of the statements in the request. This will ensure that the ministry is able to efficiently begin reviewing the request.

The request should be sent in writing or by email to:

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

and

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

Requests should also be copied to the Township by mail or by e-mail. Please visit the ministry's website for more information on requests for orders under Section 16 of the Environmental Assessment Act at:

<https://www.ontario.ca/page/class-environmental-assessments-part-ii-order>

All personal information included in your request - such as name, address, telephone number and property location - is collected, under the authority of Section 30 of the Environmental Assessment Act and is collected and maintained for the purpose of creating a record that is available to the general public. As this information is collected for the purpose of a public record, the protection of personal information provided in the Freedom of Information and Protection of Privacy Act (FIPPA) does not apply (s.37). 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.

The Township notes that this process has changed in comparison to the requirements of a Notice of Completion identified in the MCEA handbook and the former Part II Order request procedure (MEA, 2015).

1.3 Study Area and Planning Horizon

The study area for this Project is shown on Figure 1 – Study Area Plan, and is generally described as consisting of an approximately 5.7 km section of Ferguson Lake Road, commencing south of Campground Side Road (Station 2+830) and ending at the intersection at Kennelly Mountain Road (Station 8+508).

Ferguson Lake Road is located centrally in the Township, and provides a route for traffic movement mainly to and from the urban centre of Calabogie to/from locations north and west (Dacre, Griffith, Eganville, Renfrew, et al.) mainly via Flat Road (Provincial Highway 132; ON-132), and Highway 41 (ON-41). Ferguson Lake Road provides local access to permanent and seasonal residential and recreational properties, and some agricultural lands, as well as areas of active timber harvesting (Preliminary Road Condition Assessment Report; Appendix C).

Based on the Township's Asset Management Plan (Township, 2020), the planning period for the undertaking is anticipated to be twenty-five (25) years, as it pertains to the anticipated life expectancy of hot mix asphalt paved roads.

1.4 Purpose and Scope

The purpose of the MCEA Schedule B process is to identify and recommend a cost-effective and environmentally-responsible solution for the reconstruction of Ferguson Lake Road from approximately Campground Side Road to Kennelly Mountain Road (the Project).

The MCEA Schedule B process requires that a project file be kept and made available for review by interested parties. This PFR acts as the project file and has been prepared to document the work completed through the MCEA Schedule B process for submission to the MECP for approval. This report has been organized as follows:

- Section 1.0 – provides context of the methodology of the MCEA Schedule B process as undertaken by the Township, in consideration of applicable legislation, policies, and acts relevant to, and in consideration of, the need for the undertaking.

- Section 2.0 – defines the problem or opportunity statement, alternative solutions for the project based on an understanding of alternative design speeds (in kilometres per hour; km/hr) for the road reconstruction, and a clear understanding of the problem/opportunity.
- Section 3.0 – provides a general account of the existing environment within the study area and the region within which the study area exists to provide a description of the natural/physical, socio-cultural, and economic environments of the study area.
- Section 4.0 – provides the criteria for evaluation of the alternative solutions, summarizes the potential impacts of each alternative on the natural/physical, socio-cultural and economic environments, and presents the comparative evaluation of the candidates for the “Preferred Solution”.
- Section 5.0 – identifies the “Preferred Solution” and summarizes the mitigative considerations for implementation of the “Preferred Solution”.
- Section 6.0 – provides a summary of the agency and public consultation that was undertaken as part of the Class EA planning process.
- Section 7.0 – details the conclusions and related recommendations pertaining to the results of the MCEA Schedule B process, and the specific recommendations for action as they relate to the “Preferred Solution”.

Each of the Sections of this report have been documented in sufficient detail to ensure that the MCEA Schedule B process has been undertaken in a reasonable, transparent, and defensible manner consistent with MCEA requirements (MEA, 2015).

2.0 Problem/Opportunity Statement and Alternative Solutions

As required by Phase 2, Step 1 – Identification of Alternative Solutions to the Problem or Opportunity of Exhibit A.2 – *Municipal Class ES Planning and Design Process* (Appendix A; MEA, 2015), this section presents the problem or opportunity statement for the MCEA Schedule B project and identifies the alternative solutions considered for resolving the problem.

2.1 Problem or Opportunity Statement

The condition of Ferguson Lake Road had been identified by the Township for reconstruction/renewal for some time, due to road condition and safety concerns (i.e. sightlines, lane widths, alignments, pavement condition, etc.; Township, 2020). In 2019, a *Preliminary Road Condition Assessment Report* was prepared on behalf of the Township by Greenview, detailing a preliminary technical review of the existing road conditions of Ferguson Lake Road. The *Preliminary Road Condition Assessment Report* was prepared as part of the Township's plans for road reconstruction operations to address existing safety issues and to improve commuter and commercial traffic linkage from ON-132 to the centralized, urban areas of the Township, including the Village of Calabogie (Appendix C). The purpose of the report was to summarize current road conditions details, deficiencies, and public safety issues.

Based on the deficiencies noted, and the Township's identification of Ferguson Lake Road as a high-priority project due to the existing poor road conditions, advancing deterioration, anticipated increases in traffic related to residential development, and heavy truck traffic related to timber harvesting, an opportunity was identified by the Township to reconstruct Ferguson Lake Road from approximately Campground Side Road to Kennelly Mountain Road (identified as Phase 1 of proposed upgrades to Ferguson Lake Road; Figure 1) in a manner that meets the needs and requirements of the local environment.

2.2 Alternative Solutions

The alternative solutions identified for the Reconstruction of Ferguson Lake Road (Phase 1) Project are as follows. Each alternative is described in more detail in Section 4.0 of this PFR.

Alternative Solution	Description
Alternative 1 90 km/hr Design Speed Alignment	<ul style="list-style-type: none"> with associated road and right-of-way (ROW) geometry per Transportation Association of Canada (TAC) Geometric Design Guide for Canadian Roads
Alternative 2 60 km/hr Design Speed Alignment	<ul style="list-style-type: none"> with associated road and ROW geometry per TAC Geometric Design Guide for Canadian Roads
Alternative 3 Split 60 & 70 km/hr Design Speed Alignment (modified)	<ul style="list-style-type: none"> with associated road and ROW geometry per site-specific modifications and based on geotechnical considerations
Alternative 4 60 km/hr Design Speed Alignment (modified)	<ul style="list-style-type: none"> with associated road and ROW geometry per site-specific modifications and based on geotechnical considerations
Alternative 5 Do Nothing / Status Quo	<ul style="list-style-type: none"> not considered a reasonable alternative, and was screened out early in the MCEA Schedule B process

Alternative 5 – Do Nothing / Status Quo was screened out early by the Township as not feasible from a public safety and environmental perspective.

3.0 Inventory of the Existing Environment

As required by Phase 2, Step 2 – Preparation of an Inventory of the Natural/Physical, Socio-Cultural, and Economic Environments of the Study Area of *Exhibit A.2 – Municipal Class ES Planning and Design Process* (Appendix A; MEA, 2015), this section presents the various inventories of the study area's existing environment completed as part of the MCEA Schedule B process.

3.1 Natural/Physical Environment

The natural and/or physical environment information for the Project was focused on the project area, from approximately Campground Side Road to Kennelly Mountain Road along Ferguson Lake Road (Figure 1). The project area was noted to consist of a mix of deciduous, mixed, and coniferous forest, meadow, agricultural, and swamp communities. Ferguson Lake is also noted to be adjacent to the study area, and adjacent properties include a mix of residential, agricultural, and vacant land uses (Appendix C; Ainley, 2020c).

For the purposes of this MCEA Schedule B process, an inventory of the natural/physical environment was completed in two (2) approaches:

1. A Natural Heritage Study.
2. A Pavement Design Report.

The following sections are provided as a summary of the two (2) approaches to the inventory of the natural/physical environment:

3.1.1 Natural Heritage Study

In order to complete an appropriate inventory of the natural/physical environment of the project area, a *Natural Heritage Study* (Ainley, 2020c) was completed through field investigations and desktop review, and included the following components:

- Vegetation and vegetation communities per the Ecological Land Classification (ELC).
- Fish and fish habitat review.
- Migratory breeding bird surveys.
- Eastern Whip-poor-will surveys.
- Species at Risk (SAR) bat surveys.
- General SAR / SAR habitat review for other species noted during the background review.
- Significant features on the subject property and surrounding lands.
- Birds, wildlife, herpetofaunal species and habitat.

The study limits for the *Natural Heritage Study* (Appendix C) generally extended approximately 50 m beyond the edge of the anticipated maximum potential reconstructed road corridor for Ferguson Lake Road.

With respect to findings of the *Natural Heritage Study* (Appendix C; Ainley, 2020c), the following pertinent points were deemed significant for this summary of the PFR:

- Sixteen (16) vegetation communities, nine (9) locations of fish habitat, and five (5) Species-at-Risk (SAR) were observed in the study limits, including:
 - Butternut, Barn Swallow, Eastern Meadowlark, Eastern Whip-poor-will, and Eastern Wood-Pewee.
- The proposed alignments of the road have the potential to impact the following SAR:
 - Little Brown Bat, Northern Long-eared Myotis (bat), Tri-coloured Bat, Eastern Small-footed Myotis (bat), American Ginseng, Butternut, Blanding's Turtle, Eastern Meadowlark, Eastern

Whip-poor-will, Eastern Wood-Pewee, Snapping Turtle, Wood Thrush, Golden-winged Warbler, Canada Warbler, Evening Grosbeak.

- Impacts to Ferguson Lake and the adjacent Provincially Significant Wetland (PSW) are not anticipated. Potential road alignments are not anticipated to encroach on the PSW.
- One candidate Area of Natural and Scientific Interest (ANSI) – Ferguson Lake Candidate ANSI and one regionally significant wetland – McNulty Lake Wetland, are present within the study limits.
- The study area falls within a Stratum II deer wintering area - reconstruction work on the road could include habitat fragmentation, habitat access, & increased road mortality.
- Recommendations on mitigation measures for construction and direction for specific construction activities were included in study.

Additional information, findings, and recommendations are included in the *Natural Heritage Study* in Appendix C of this PFR (Ainley, 2020c).

In addition to the *Natural Heritage Study*, a *Butternut Health Assessment* (BHA) Report was completed and submitted to the MECP Species at Risk Branch as part of the MCEA Schedule B process (Ainley, 2020b). A copy of the BHA Report is included in Appendix C to this PFR, with geolocation-related information redacted for the purposes of protecting the exact location of the respective Butternut trees in the study area.

The BHA Report identified Butternut trees located within study limits of the project, and made assessments regarding the health of the trees. Thirty-seven (37) Butternut trees were located within the study area, including:

- Thirty-two (32) Category 1 trees (non-retainable; can be removed without approvals)
- Two (2) Category 2 trees (retainable; can be removed with approvals O.Reg. 242/08)
- Three (3) Category 3 trees (potentially archivable; MECP permitting and coordination)

3.1.2 Pavement Design Report

As part of the inventory of the natural/physical environment, and specifically in order to assist with the development of strategies for the engineered design for the reconstruction of Ferguson Lake Road, a *Pavement Design Report* (and related geotechnical investigations) was completed as part of the MCEA Schedule B process (Ainley, 2020a).

The geotechnical investigations related to the *Pavement Design Report* included:

- Twenty-four (24) boreholes were advanced in the roadway and/or edge of pavement, six (6) boreholes at cross-culverts, nine (9) test pits within roadway embankments, and thirty-nine (39) probe holes were advanced in vicinity of test pits.
- Representative samples of base, subbase, and subgrade were submitted for gradation analysis and moisture content determination.
- Recommendations from report allowed design processes to follow a modified (site-specific) approach.

Additional information, findings, and recommendations are included in the *Pavement Design Report* in Appendix C of this PFR (Ainley, 2020a).

3.2 Socio-Cultural Environment

The following sections present a general description of the various aspects of the existing socio-cultural environment for the study area.

For the purposes of this MCEA Schedule B process, an inventory of the socio-cultural environment was completed per the following:

1. Human population and social community.
2. Stage 1 Archeological Assessment.
3. Cultural Heritage Resource Assessment.

3.2.1 Human Population and Social Community

The Township of Greater Madawaska is an incorporated municipality in the Ottawa River Valley that was created in 2001 with the amalgamation of the former Townships of Bagot and Blythfield, Township of Brougham, and Township of Griffith and Matawatchan (Wikipedia, 2021). The Township has a land area of approximately 1,036 square kilometres (km²), and a population density of approximately 2.4 people per km² (Statistics Canada, 2021).

The Township is a largely rural municipality, with the largest urban centres being the villages of Calabogie and Griffith. Other smaller communities located within the municipality include Ashdad, Barret Chute, Barryvale, Black Donald, Camel Chute, Hurds Lake, Lower Dacre, Matawatchan, Mount St. Patrick, Springtown, Spruce Hedge, and Wilson. The Township is also home to numerous water bodies including, but not limited to, Centennial Lake, Black Donald Lake, Norcan Lake, Calabogie Lake, and the Madawaska River (Wikipedia, 2021).

Population information was available from the Statistics Canada website (Statistics Canada, 2021). According to the 2016 census data, the Township has a population of approximately 2,518, with 2,170 total private dwellings. Of the total private dwellings, 54% (or 1,178) were occupied by usual residents, while the other 42% of dwellings in the Township (992 dwellings) are understood to be seasonal/recreational in nature, representing the considerable seasonal population in the Township (Statistics Canada, 2021).

The total labour force population (aged 15 years and over) was reportedly 1,140 people. Industry within the Township is understood to be generally diverse, with people within the labour force employed across a variety of industries. Industry category employment percentages above 10% of the available labour force include the construction, manufacturing, and health care/social assistance industry categories, based on the North American Industry Classification System (NAICS; Statistics Canada, 2021).

The total labour force understood for known occupations within the Township was 1,130 people, with the following percentages calculated by occupation categories, per the National Occupational Classification (NOC; Statistics Canada, 2021):

Occupation Category (per NOC)	No. of Units	Percentage (%)
Management Occupations	150	13%
Business, Finance & Administration Occupations	190	17%
Natural & Applied Sciences & Related Occupations	55	5%
Health Occupations	65	6%
Occupations in Education, Law & Social, Community & Government Services	115	10%
Occupations in Art, Culture, Recreation & Sport	35	3%
Sales & Service Occupations	190	17%
Trades, Transport & Equipment Operators & Related Occupations	230	20%
Natural Resources, Agriculture & Related Production Occupations	30	3%
Occupations in Manufacturing & Utilities	70	6%

3.2.2 Cultural Heritage Resource Assessment

In order to complete an appropriate inventory of the socio-cultural environment of the project area, a *Cultural Heritage Resource Assessment: Built Heritage Resources & Cultural Heritage Landscapes Existing Conditions & Preliminary Impact Assessment Report* (Cultural Heritage Resource Assessment) was completed for this MCEA Schedule B process. The draft Cultural Heritage Resource Assessment was completed by Archeological Services Inc (ASI) in 2020 (ASI, 2020a).

As part of the Cultural Heritage Resource Assessment, ASI noted the following significant findings:

- Study area has a rural land use history, dating back to mid-nineteenth century.
- A review of federal, provincial, and municipal registers, inventories, and databases revealed no previously identified features of cultural heritage value.
- One (1) cultural heritage resource was identified as part of field work, of historical, architectural, and contextual value (early settlement of Ferguson Lake Road).

Additional details, conclusions, and recommendations are included in the draft Cultural Heritage Resource Assessment (ASI, 2020a). A copy of the draft Cultural Heritage Resource Assessment is included in Appendix C of this PFR, to be finalized following completion of detailed design for the road reconstruction.

3.2.3 Stage 1 Archeological Assessment

In order to complete an appropriate inventory of the socio-cultural environment of the project area, a *Stage 1 Archeological Assessment* was completed for this MCEA Schedule B process. The *Stage 1 Archeological Assessment* was completed by Archeological Services Inc (ASI) in 2020 (ASI, 2020b).

As part of the work, no previously-registered archeological sites were located within 1 km of study area. ASI noted that a *Stage 2 Archeological Assessment* is required to be completed in selected areas of the project area that exhibited archeological potential, including test pitting activities. The proposed *Stage 2 Archeological Assessment* is required to be completed prior to proceeding with construction operations for the project, with focus areas determined based on final detailed design for the road reconstruction.

Additional details, conclusions, and recommendations are included in the draft *Stage 1 Archeological Assessment* (ASI, 2020b). A copy of the draft *Stage 1 Archeological Assessment* is included in Appendix C of this PFR, to be finalized following completion of detailed design for the road reconstruction.

3.3 Economic Environment

The following sections present a general description of the various aspects of the existing economic environment for the study area.

For the purposes of this MCEA Schedule B process, an inventory of the economic environment was completed per the following:

1. Municipal Tax Base.
2. Household Income.
3. Asset Management – Roads.
4. Funding Sources.

3.3.1 Municipal Tax Base

The 2020 Tax Base (revenue received from municipal taxes) for the Township of Greater Madawaska was \$4,126,537 as per the 2020 municipal budget. In 2020, the Township had planned for an operating surplus, and debenture to fund capital projects.

3.3.2 Household Income

Per the 2016 census, Statistics Canada reported the median total income of households in 2015 was \$64,768, while the average employment income was reportedly \$65,417. The median total income of one-person households in 2015 was \$34,368 and the median total income of two-or-more-person households was reportedly \$79,445 (Statistics Canada, 2021).

3.3.3 Asset Management - Roads

The Township owns and maintains a rural road network with the following characteristics, based on information contained within the 2020 Asset Management Plan (Township, 2020):

Road Type	Total Length in Kilometres (km)
Gravel	139.78
Low Class Bituminous (LCB)	36.83
Hot Mix Paved (HL4)	56.69

Ferguson Lake Road is a rural road in the Township, that provides single-lane vehicular access between Calabogie Road (County Road 508) and Kennelly Mountain Road. The condition rating for Ferguson Lake Road was deemed to be in a “Now Need” state with respect to the Township’s most recent Asset Management Plan (Township, 2020).

3.3.4 Funding Sources

In late 2019, funding for the Reconstruction of Ferguson Lake Road Project was secured from *the Investing in Canada Infrastructure Program: Rural and Northern Stream* for the Phase 1 portion of the project including the 5.7 km road section from approximated Campground Side Road to Kennelly Mountain Road.

The total funding for the project was for approximately \$4.9 million dollars, with 60% of the funding from the Federal Government (Canada), 33% from the Provincial Government (Ontario), and 7% from the Township’s municipal budget. The 7% from the Township’s municipal budget is understood to be from Development Charges.

Project initiation (planning, design, and engineering) commenced in 2020.

3.3.5 Preliminary Construction Cost Estimates

Further to the alternative solutions identified in Section 2.2 of this PFR, preliminary construction cost estimates were calculated for each of the alternative solutions. A detailed summary of the comparison between cost estimates for each of the four (4) alternative solutions is included as *Table 1 – Preliminary Construction Cost Estimates for Alternative Solutions* in this PFR. The following is a simplified summary of the preliminary construction cost estimates for the alternative solutions included in Table 1:

Item Description	Alternative #1 90kph Design Speed (TAC)	Alternative #2 60kph Design Speed (TAC)	Alternative #3 60/70kph Design Speed (Modified)	Alternative #4 60kph Design Speed (Modified)	Alternative #5 Status Quo / Do Nothing
Preliminary Construction Cost	\$6,767,090	\$6,227,785	\$3,609,424	\$3,508,317	n/a
Contingency (20%)	\$1,353,418	\$1,245,557	\$721,885	\$701,663	
Estimated Total Cost (High)	\$8,120,507	\$7,473,342	\$4,331,309	\$4,209,980	
Construction Funding	\$3,709,100	\$3,709,100	\$3,709,100	\$3,709,100	
Difference (surplus / deficit)	-\$4,411,407	-\$3,764,242	-\$622,209	-\$500,880	
Construction Funding (including 20% Contingency)	\$4,450,920	\$4,450,920	\$4,450,920	\$4,450,920	
Difference (surplus / deficit)	-\$3,669,587	-\$3,022,422	\$119,611	\$240,940	

4.0 Evaluation of Alternatives

As required by Phase 2, Step 3 – Identify Impact of Alternative Solutions on the Environment and Mitigating Measures, and Step 4 – Evaluate Alternative Solutions and Identify Recommended Solutions of *Exhibit A.2 – Municipal Class ES Planning and Design Process* (Appendix A; MEA, 2015), this section presents the evaluation of alternative solutions (Section 2.2; Appendix A), taking into consideration the natural/physical, socio-cultural, and economic environments and relevant criteria.

4.1 Generic Road Design Details

The road design characteristics for the Reconstruction of Ferguson Lake Road (Phase 1) were identified from multiple sources including, but not limited to, the draft Pavement Design Report (Ainley, 2020a), TAC, information provided by the Township, and the County of Renfrew's *Active Transportation Strategy* (County of Renfrew, 2017; Appendix C).

Alternatives 1 through 4 include similar road design characteristics, including:

- Single-lane width = 3.3 m
- Crossfall = 2%
- Depth of HL4 Asphalt = 50 mm
- Paved Shoulder Width = 0.5 m
- Granular Shoulder Width = 0.5 m

4.2 Evaluation Criteria and Methodology

For the purposes of this MCEA Schedule B project, the alternative solutions were evaluated predominantly on the results from the various studies completed with respect to the natural/physical, socio-cultural, and economic environments.

As described in more detail in Section 3.0, the existing environments were evaluated in the following:

1. Natural/Physical Environment:
 - a. Natural Heritage Study
 - b. Butternut Health Assessment Report
2. Socio-Cultural Environment:
 - a. Cultural Heritage Resource Assessment
 - b. Stage 1 Archeological Assessment
3. Economic Environment
 - a. Preliminary Construction Cost Estimates

Each of the alternative solutions were evaluated for specific criteria, for each of the existing environments as follows:

1. Natural/Physical Environment
 - a. Water Quality / Drainage
 - b. Wetlands
 - c. Wildlife Habitat – Terrestrial
 - d. Wildlife Habitat – Aquatic
 - e. Wildlife Habitat – Avian
 - f. Significant Species / Species-At-Risk
2. Socio-Cultural
 - a. Land Use / Land Needs
 - b. Cultural Heritage / Archeology
 - c. Traffic

- d. Visual Aesthetics
 - e. Public Opinion
 - f. Public Health and Safety
3. Economic
- a. Capital Cost
 - b. Operating Cost (Long-Term Asset Maintenance / Management)

Findings from the studies were evaluated relative to each alternative, with potential net effects ranked, relatively from “low” to “high”.

4.3 Alternative 1 – 90 km/hr Design Speed Alignment (TAC)

The following details are provided relative to Alternative 1 – 90 km/hr Design Speed Alignment (TAC):

4.3.1 Description of Alternative

Alternative 1 involves the reconstruction design of the project area of Ferguson Lake Road and associated right-of-way (ROW) geometry with a 90 km/hr design speed alignment per the requirements of the TAC *Geometric Design Guide for Canadian Roads*.

4.3.2 Potential Impact on Natural/Physical Environment

Alternative 1 is anticipated to have a medium-high potential impact to the natural/physical environment, with anticipated significant impacts to SARs (notably butternut trees), and significant habitat impacts for aquatic, avian, and terrestrial life (Table 2).

The potential impacts to the natural/physical environment are largely related to the significant horizontal and vertical realignments what would be required to meet with the requirements for a road designed to a 90 km/hr design speed alignment per TAC, whereby road realignments would result in the need for significant tree and brush removal, and encroachment of the road on/into wetland and other aquatic environments.

4.3.3 Potential Impact on Socio-Cultural Environment

Alternative 1 is anticipated to have a high potential impact to the socio-cultural environment, with anticipated significant impacts related to land encroachments, traffic, public opinion, and public health and safety.

The potential impacts to the socio-cultural environment are anticipated based on the significant land encroachments and/or land acquisition requirements to accommodate the dramatic road horizontal and vertical realignments (and related side slope requirements) to allow for a 90 km/hr design speed per TAC, the significant changes related to the visual aesthetics of the road and adjacent areas based on the road realignment needs, anticipated increased traffic volume and vehicle speeds, anticipated adjacent landowner complaints related to vehicle traffic and speeds, and anticipated increased likelihood for negative public health and safety outcomes due to higher vehicle traffic and speeds on the road, and land encroachments and/or land acquisitions required for the project.

4.3.4 Potential Impact on Economic Environment

A Preliminary Construction Cost Estimates for Alternative Solutions table was prepared as part of the MCEA Schedule B project, and is included at Table 1 of this PFR.

Alternative 1 is anticipated to have very high construction costs to accommodate the 90 km/hr design speed alignment per TAC requirements, that is estimated to be approximately \$3.7 million dollars above the available funding amounts for the road reconstruction work. Additionally, in order to maintain the road from an asset management perspective over time, the operating costs are anticipated to be much more costly than other alternative solutions reviewed for the project.

4.3.5 Alternative 1 – Summary Evaluation Statement

Based on the above and the summary in Table 2, Alternative 1 is anticipated to have a high overall potential to impact the environment from a natural/physical, socio-cultural, and economic environment perspective.

4.4 Alternative 2 – 60 km/hr Design Speed Alignment (TAC)

The following details are provided relative to Alternative 2 – 60 km/hr Design Speed Alignment (TAC):

4.4.1 Description of Alternative

Alternative 2 involves the reconstruction design of the project area of Ferguson Lake Road and associated ROW geometry with a 60 km/hr design speed alignment per the requirements of the TAC *Geometric Design Guide for Canadian Roads*.

4.4.2 Potential Impact on Natural/Physical Environment

Alternative 2 is anticipated to have a medium potential impact to the natural/physical environment, with anticipated significant impacts to SARs (notably butternut trees), and significant habitat impacts for aquatic, avian, and terrestrial life (Table 2). Alternative 2 is anticipated to impact the natural/physical environment in a similar manner as Alternative 1; however, to a slightly less extent.

The potential impacts to the natural/physical environment are largely related to the significant horizontal and vertical realignments what would be required to meet with the requirements for a road designed to a 60 km/hr design speed alignment per TAC, whereby road realignments would result in the need for significant tree and brush removal, and encroachment of the road on/into wetland and other aquatic environments.

4.4.3 Potential Impact on Socio-Cultural Environment

Alternative 2 is anticipated to have a medium potential impact to the socio-cultural environment, with anticipated significant impacts related to land encroachments, traffic, and public opinion.

The potential impacts to the socio-cultural environment are anticipated based on the significant land encroachments and/or land acquisition requirements to accommodate the dramatic road horizontal and vertical realignments (and related side slope requirements) to allow for a 60 km/hr design speed per TAC, anticipated increased traffic volume, and anticipated adjacent landowner complaints related to land encroachments and/or acquisitions required for the project.

4.4.4 Potential Impact on Economic Environment

A Preliminary Construction Cost Estimates for Alternative Solutions table was prepared as part of the MCEA Schedule B project, and is included at Table 1 of this PFR.

Alternative 2 is anticipated to have very high construction costs to accommodate the 60 km/hr design speed alignment per TAC requirements, that is estimated to be approximately \$3.0 million dollars above the available funding amounts for the road reconstruction work. Additionally, in order to maintain the road from an asset management perspective over time, the operating costs are anticipated to be much more costly than other alternative solutions reviewed for the project.

4.4.5 Alternative 2 – Summary Evaluation Statement

Based on the above and the summary in Table 2, Alternative 2 is anticipated to have a high overall potential to impact the environment from a natural/physical, socio-cultural, and economic environment perspective.

4.5 Alternative 3 – Split 60 & 70 km/hr Design Speed Alignment (Modified)

The following details are provided relative to Alternative 3 – Split 60 and 70 km/hr Design Speed Alignment (Modified):

4.5.1 Description of Alternative

Alternative 3 involves the reconstruction design of the project area of Ferguson Lake Road and associated ROW geometry with a 60 km/hr design speed alignment from approximately Campground Side Road to Constant Creek Bridge, 70 km/hr design speed from Constant Creek Bridge to Kennelly Mountain Road, and based on a modified approach using site-specific, geotechnical design details from the draft *Pavement Design Report* (Ainley, 2020a).

4.5.2 Potential Impact on Natural/Physical Environment

Alternative 3 is anticipated to have a low potential impact to the natural/physical environment, with fewer significant impacts to SARs, as well as fewer habitat impacts for aquatic, avian, and terrestrial life, than Alternatives 1 and 2 (Table 2).

4.5.3 Potential Impact on Socio-Cultural Environment

Alternative 3 is anticipated to have a medium-low potential impact to the socio-cultural environment, with anticipated fewer impacts related to land encroachments, traffic, and public health and safety than Alternatives 1 and 2.

The potential impacts to the socio-cultural environment are anticipated based on the fewer land encroachments and/or land acquisition requirements to accommodate the relatively minor road horizontal and vertical realignments (and related side slope requirements) to allow for the 60 km/hr design speed alignment from approximately Campground Side Road to Constant Creek Bridge and the 70 km/hr design speed from Constant Creek Bridge to Kennelly Mountain Road, anticipated minor increased traffic volume and speeds, and anticipated increased likelihood for negative public health and safety outcomes due to higher vehicle traffic and speeds on the road.

4.5.4 Potential Impact on Economic Environment

A Preliminary Construction Cost Estimates for Alternative Solutions table was prepared as part of the MCEA Schedule B project, and is included at Table 1 of this PFR.

Alternative 3 is anticipated to have construction costs within the available funding amounts for the road reconstruction work (approximately \$120 thousand dollars under budget). Additionally, in order to maintain the road from an asset management perspective over time, the operating costs are anticipated to be much lower than either Alternative 1 or 2.

4.5.5 Alternative 3 – Summary Evaluation Statement

Based on the above and the summary in Table 2, Alternative 3 is anticipated to have a medium overall potential to impact the environment from a natural/physical, socio-cultural, and economic environment perspective.

4.6 Alternative 4 – 60 km/hr Design Speed Alignment (Modified)

The following details are provided relative to Alternative 1 – 60 km/hr Design Speed Alignment (modified):

4.6.1 Description of Alternative

Alternative 4 involves the reconstruction design of the project area of Ferguson Lake Road and associated ROW geometry with a 60 km/hr design speed, and based on a modified approach using site-specific, geotechnical design details from the draft *Pavement Design Report* (Ainley, 2020a).

4.6.2 Potential Impact on Natural/Physical Environment

Alternative 4 is anticipated to have a low potential impact to the natural/physical environment, with fewer significant impacts to SARs, as well as fewer habitat impacts for aquatic, avian, and terrestrial life, than Alternatives 1 and 2 (Table 2).

Overall, Alternative 4 is anticipated to have the fewest natural/physical environmental impacts of all of the alternative solutions.

4.6.3 Potential Impact on Socio-Cultural Environment

Alternative 4 is anticipated to have a low potential impact to the socio-cultural environment, with anticipated fewer impacts related to land encroachments, traffic, and public health and safety than Alternatives 1 and 2.

Overall, Alternative 4 is anticipated to have the fewest socio-cultural environmental impacts of all of the alternative solutions.

4.6.4 Potential Impact on Economic Environment

A Preliminary Construction Cost Estimates for Alternative Solutions table was prepared as part of the MCEA Schedule B project, and is included at Table 1 of this PFR.

Alternative 4 is anticipated to have construction costs within the available funding amounts for the road reconstruction work (approximately \$240 thousand dollars under budget). Additionally, in order to maintain the road from an asset management perspective over time, the operating costs are anticipated to be much lower than either Alternative 1 or 2.

4.6.5 Alternative 4 – Summary Evaluation Statement

Based on the above and the summary in Table 2, Alternative 4 is anticipated to have a low overall potential to impact the environment from a natural/physical, socio-cultural, and economic environment perspective.

4.7 Alternative 5 – Status Quo / Do Nothing

As noted in Section 2.2, Alternative 5 – Status Quo / Do Nothing was screened out by the Township as not being feasible from an environmental, and public health and safety perspective.

4.8 Comparative Evaluation Summary of Alternatives

Each of the alternatives were evaluated based on their potential to impact each of the criteria listed in Section 4.1, on a scale from low to high, with low identifying a low potential for impacts and high identifying a high potential for impacts.

Based on this methodology of review, the following evaluation was determined:

Alternative No.	Alternative Description	Potential for Impacts
Alternative #1	90 km/hr Design Speed Alignment (TAC)	High
Alternative #2	60 km/hr Design Speed Alignment (TAC)	High
Alternative #3	Split 60 & 70 km/hr Design Speed Alignment (Modified)	Medium
Alternative #4	60 km/hr Design Speed Alignment (Modified)	Low

The summary evaluation matrix is included as *Table 2 – Potential Effects Summary and Evaluation of Alternatives* of this PFR.

5.0 Identification of the Preferred Solution and Preliminary Design

The following sections describe the Township's determination of the Preferred Solution for the project, based on the thorough evaluation of all alternatives.

5.1 The "Preferred Solution"

The identification of a "Preferred Solution" for the Reconstruction of Ferguson Lake Road (Phase 1) Project was based primarily on an open, transparent, and objective assessment of the alternatives on the environment.

Based on the studies undertaken for this project, comparative evaluation of the alternatives, public input, and Township Council review, the "Preferred Solution" for the Reconstruction of Ferguson Lake Road (Phase 1) MCEA Schedule B project was determined to be:

- Alternative 3 – Split 60 & 70 km/hr Design Speed Alignment (Modified).

The selection of the "Preferred Solution" is based on the assessment of impacts to the natural/physical, socio-cultural, and economic environments applicable to this project as presented in Section 4.0 and technical information included in Appendix C.

Permitting and approvals for the implementation of the "Preferred Solution" would be undertaken as part of Phase 5 of the MCEA process (Appendix A).

5.2 Mitigative Considerations for Implementation of the "Preferred Solution"

The Split 60 & 70 km/hr Design Speed Alignment (Modified) has been selected as the "Preferred Solution" based on its relatively low potential impacts to the natural/physical, socio-cultural, and economic environments. Through the course of this MCEA Schedule B process, aspects of the various environments were identified that need to be considered in future implementation phases of the project.

The following is a general list of concerns identified and preliminary mitigative measures to minimize impacts to the related environments.

- Natural/Physical Environment – general recommendations and mitigative measures are noted in the *Natural Heritage Study* included Appendix C.
- Cultural Heritage/Archaeology – general recommendations and mitigative measures are noted in the *Cultural Heritage Resource Assessment* and *Stage 1 Archeological Assessment* included in Appendix C. Specific to the archeological review of the project area, a *Stage 2 Archeological Assessment* is required to be completed prior to initiation of construction operations in the project area, and be scoped per the final detailed design for the road reconstruction.

The Township is committed to fulfill all relevant obligations with respect to the mitigation of potential negative effects associated with the implementation of the Preferred Solution. As noted, these obligations will be defined in consultation with relevant authorities, as applicable.

5.3 Preliminary Design Details

Based on the above noted alternative solutions (Section 4.0) and the "Preferred Solution" noted above (Section 5.1), preliminary design drawings for *Alternative 3 - Split 60 & 70 km/hr Design Speed Alignment (Modified)* were prepared for the MCEA Schedule B process, as well as an associated *Ferguson Lake Road Preliminary Design Brief* (WSP, 2020a and 2020b).

The preliminary design drawings and the *Ferguson Lake Road Preliminary Design Brief* (WSP, 2020a and 2020b) are included in Appendix D of the PFR.

6.0 Stakeholder Consultation

This section presents a general summary of the agency, Indigenous Community, stakeholder, and public consultation that was undertaken as part of this project's MCEA Schedule B planning process. The consultation program for this MCEA Schedule B project was completed in general accordance with the *Stakeholder Consultation Plan* (Appendix B).

Appendix E includes all relevant *Public Consultation Documents* for this project, while Appendix F contains all pertinent correspondence related to the MCEA Schedule B project.

Tables 3 and 4 include detailed contact information on all parties contacted as part of the MCEA Schedule B project (as noted in more detail below).

6.1 Project Contact List & Consultation Summary

A project contact list was developed based on the requirements of the MCEA handbook (MEA, 2015). Project contact information was updated as required during the planning process. Potential interested parties incorporated into the contact list included:

1. Provincial agencies and authorities (Ontario).
2. Federal agencies and authorities (Canada).
3. Municipal agencies and authorities.
4. Public and private utilities.
5. Stakeholders and other interested parties.
6. Adjacent property owners to the project area.
7. Indigenous Communities.

Contact information for the above noted interested parties are included on Appendix F of this PFR as follows:

- Initial Project Contact List and Consultation Summary
- Final Project Contact List and Consultation Summary

The Initial Project Contact List and Consultation Summary was the original list of stakeholders created at the initiation of the project, consistent with the requirements of the MCEA handbook (MEA, 2015). The Initial Project Contact List and Consultation Summary (Appendix F) was the list used to issue the Notice of Study Commencement (Appendix E).

As the Project Contact List and Consultation Summary is designed to be a “living document”, the contact list was continually updated as responses were received during the project and/or mail was “returned to sender”. New stakeholders were added and/or deleted from the contact list, based on new information received. Therefore, the Final Project Contact List and Consultation Summary has also been included as part of this PFR (Appendix F), and which was used for the issuance of the Notice of Study Completion (Appendix E).

The Project Contact List and Consultation Summaries also provide a general summary of any responses and actions taken to official communications issued as part of the MCEA process. Copies of pertinent consultation correspondence is attached as part of the consultation record and is included in Appendix F.

6.2 Notice of Study Commencement

On June 22, 2020, in accordance with Phase 2 – Step 5 of the *Exhibit A.2 – Municipal Class EA Planning and Design Process* (Appendix A), a Notice of Study Commencement was issued by the Township (Appendix E). The Notice was posted to the Township's website and to its social media account (Facebook).

The Notice of Study Commencement (and associated cover letters and comment forms) were sent out to potential interested parties (parties #1 to #6 noted in Section 6.1) by regular mail and by email (if an email address for the party was known at that time) on June 22, 2020.

The Notice of Study Commencement was sent directly by email to the MECP Environmental Assessment (EA) Coordinator on June 22, 2020, who provided a formal response and a list of Indigenous Communities required to be contacted as part of the MCEA Schedule B process on August 12, 2020 (Appendix F). Contact with Indigenous Communities was not permitted by the MECP prior to the MECP EA Coordinator providing the Township with the contact list. The list of Indigenous Communities to be contacted as part of the MCEA Schedule B process, as dictated by the MECP EA Coordinator, included the following, who were sent copies of the Notice of Study Commencement, by both email and mail, on August 13, 2020:

1. Alderville First Nation.
2. Algonquins of Ontario
3. Bonnechere Algonquin First Nation
4. Curve Lake First Nation.
5. Hiawatha First Nation
6. Metis Nation of Ontario
7. Mississaugas of Scugog Island First Nation.
8. Williams Treaty First Nation.

It is noted that no subsequent responses and/or comments were received from any of the Indigenous Communities contacted as part of the issuance of the Notice of Study Commencement.

Any communications and related comment forms from interested parties were documented and filed as part of the MCEA Schedule B process for the project. In cases where a party identified that they did not wish to participate in the MCEA Schedule B process, the party was removed from the Project Contact List and Consultation Summary.

6.3 Notice of Public Information Centre

Despite not being a mandatory requirement of a MCEA Schedule B process, the Township determined that including a Public Information Centre as part of the Reconstruction of Ferguson Lake Road project was a desirable effort and included it in the scope of work for 2021. The intent of the Public Information Centre was to share information with the public and interested stakeholders as to the various studies completed for the project, details on the review of the alternative solutions considered, the reasoning behind the Township's determination of the Preferred Alternative, and preliminary design information for the road reconstruction. The Notice was posted to the Township's website and to its social media account (Facebook), as well as being posted in two (2) local newspapers, the Eganville Leader and the Renfrew Mercury.

Given public gathering restrictions due to the COVID-19 pandemic, the Public Information Centre was planned as a virtual event online, using the Microsoft Teams meeting interface.

A Notice of Public Information Centre (and related project comment form) was issued by the Township on May 27, 2021 (Appendix E). The Notice of Public Information Centre was sent out to potential interested parties (parties #1 to #7 noted in Section 6.1) by regular mail and by email (if an email address for the party was known at that time) on May 28, 2021.

It is noted that comments were received from Indigenous Communities contacted as part of the issuance of the Notice of Public Information Centre, including the Algonquins of Ontario (July 15, 2021; Appendix F) and Mississaugas of Scugog First Nation (July 21, 2021; Appendix F).

Any communications and related comment forms from interested parties were documented and filed as part of the MCEA Schedule B process for the project. In cases where any party identified that they did not wish to

participate in the MCEA Schedule B process, the party was removed from the Project Contact List and Consultation Summary.

Any interested parties who wished to participate in the Public Information Centre were requested to provide their email address to Greenview and the Township, so that they could be provided with a link to the Microsoft Teams meeting in advance of the date of the Public Information Centre event. Email addresses for interested stakeholders were documented and used to provide the meeting link in emails issued on June 14, 2021.

6.4 Public Information Centre Event

The Public Information Centre (PIC) event was held on the evening of June 15, 2021, and reviewed the various studies completed for the project, details on the review of the alternative solutions considered, the reasoning behind the Township's determination of the Preferred Alternative, preliminary design information for the road reconstruction, and for providing a forum for public comment and questions.

Electronic copies of the various studies and plans completed as part of the MCEA Schedule B project were posted to the Township's website for public access on June 14, 2021, in advance of the PIC event. An electronic copy of the slideshow for the Public Information Centre event was subsequently posted on the Township's website on June 16, 2021. A copy of the Public Information Centre slide show is included in Appendix E of this PFR.

6.5 Notice of Study Completion

On July 22, 2021, in accordance with Phase 2 – Step 5 of the *Exhibit A.2 – Municipal Class EA Planning and Design Process* (Appendix A), a Notice of Study Completion was issued by the Township (Appendix E).

The Notice of Study Completion was posted to the Township's website and social media on the same date. A copy of the notice and related correspondence are included in Appendix E.

The Notice of Study Completion was completed in accordance with the revised requirements of the MECP, as issued on January 05, 2021 (Appendix B).

6.6 Correspondence During the MCEA Schedule B Project

Consistent with the general requirements of the MCEA Schedule B process, copies of pertinent correspondence throughout the project are included in Appendix F of this PFR.

7.0 Conclusions & Recommendations

Consistent with the requirements of the MCEA process (2015) for a Schedule B undertaking, the Township of Greater Madawaska has fulfilled its obligations with the study and this PFR to identify the best solution for the Reconstruction of Ferguson Lake Road (Phase 1), from approximately Campground Side Road to Kennelly Mountain Road.

The undertaking included a comprehensive evaluation of alternatives, based on economic, technical, and a consultative approach, with a complementary assessment of potential impacts to the natural/physical, socio-cultural, and economic environments of the focused study area. The undertaking has been documented in the previous sections of this report, including consultation with the public, Indigenous Communities, and other potential interested parties.

Based on the above conclusion, it is recommended that the Township of Greater Madawaska proceed with the implementation of the project at the earliest possible opportunity (MCEA Phase 5; Appendix A), with the priority being public safety. Diligence and care to ensure mitigative measures of the project are undertaken as presented herein and/or as provided in supporting technical studies or reports.

8.0 Closing

Greenview has prepared this *Project File Report* in general accordance with the requirements for a Schedule B Municipal Class Environmental Assessment, as amended (Municipal Engineers Association, 2015).

This report is governed by the attached statement of service conditions and limitations (Appendix G).

All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist



Tyler H. Peters, P.Eng.
Project Director

9.0 Selected References

- Ainley Group, 2020a. *Draft Pavement Design Report, Ferguson Lake Road – Kennelly Mountain Road Southerly 5.8 kms*. July 13, 2020.
- Ainley Group, 2020b. *Butternut Health Assessment Report 469-017, Ferguson Lake Road Reconstruction, Township of Greater Madawaska, Renfrew County*. October 05, 2020.
- Ainley Group, 2020c. *Natural Heritage Study for Ferguson Lake Road Reconstruction, Township of Greater Madawaska, Renfrew County (DRAFT)*. November 26, 2020.
- Archaeological Services Inc., 2020a. *Cultural Heritage Resource Assessment: Built Heritage Resources and Cultural Heritage Landscapes – Existing Conditions and Preliminary Impact Assessment Report, Ferguson Lake Road Municipal Class Environmental Assessment*. August 05, 2020.
- Archaeological Services Inc., 2020b. *Stage 1 Archaeological Assessment – Ferguson Lake Road (Former Townships of Blithfield and Brougham), Township of Greater Madawaska*. August 07, 2020.
- County of Renfrew, 2017. *Active Transportation Strategy*. September 27, 2017.
- Greenview Environmental Management Limited, 2019. *Preliminary Road Condition Assessment Report, Ferguson Lake Road, Township of Greater Madawaska, Ontario*. April 17, 2019.
- Municipal Engineers Association, 2015. *Municipal Class Environmental Assessment handbook*. 2015.
- Statistics Canada, 2021. *Census Profile, 2016 Census – Greater Madawaska, Township [Census subdivision], Ontario and Ontario [Province]*. <https://www12.statcan.gc.ca/census-recensement/2016/dp-pd/prof/details/page.cfm?Lang=E&Geo1=CSD&Code1=3547008&Geo2=PR&Code2=35&SearchText=Greater%20Madawaska&SearchType=Begin&SearchPR=01&B1=All&GeoLevel=PR&GeoCode=3547008&TABID=1&type=0>. Accessed July 09, 2021.
- Township of Greater Madawaska, 2019a. *Investing in Canada Infrastructure Program: Rural & Northern Stream Funding Application Form, Province of Ontario*. April 22, 2019.
- Township of Greater Madawaska, 2019b. *Ministry of Infrastructure – Rural and Northern Communities 2019 Intake Technical Schedule - Roads, Province of Ontario*. April 22, 2019.
- Township of Greater Madawaska, 2020. *Asset Management Plan*. August 2020.
- WSP, 2021a. *Ferguson Lake Road Preliminary Design Brief*, June 14, 2021.
- WSP, 2021b. *Contract Drawings – Reconstruction of Ferguson Lake Road (Phase 1) – Preliminary Design*. June 06, 2021.

Tables



Table 1
Preliminary Construction Cost Estimates For Alternative Solutions
Project File Report
Municipal Class Environmental Assessment (Schedule B)
Reconstruction of Ferguson Lake Road

Item	Task Description	Unit	Alternative #1			Alternative #2			Alternative #3			Alternative #4		
			90kph Design Speed (TAC)			60kph Design Speed (TAC)			60 / 70kph Design Speed (Modified)			60kph Design Speed (Modified)		
			Estimated Quantity	Unit Cost	Total Cost	Estimated Quantity	Unit Cost	Total Cost	Estimated Quantity	Unit Cost	Total Cost	Estimated Quantity	Unit Cost	Total Cost
ENG1	Planning, Engineering, Design, Permitting & Approvals, PM	LS	1	\$ 570,000	\$ 570,000	1	\$ 453,570	\$ 453,570	1	\$ 453,570	\$ 453,570	1	\$ 453,570	\$ 453,570
CA1	Construction Contract Administration	LS	1	\$ 300,000	\$ 300,000	1	\$ 150,000	\$ 150,000	1	\$ 150,000	\$ 150,000	1	\$ 150,000	\$ 150,000
GC1	Contractor General Requirements	%	1	5%	\$ 308,000	1	5%	\$ 290,000	1	5%	\$ 165,000	1	5%	\$ 160,000
GC2	Construction Inspection & Testing Allowance	LS	1	\$ 100,000	\$ 100,000	1	\$ 100,000	\$ 100,000	1	\$ 100,000	\$ 100,000	1	\$ 100,000	\$ 100,000
GC3	Environmental Controls & Protection	LS	1	\$ 100,000	\$ 100,000	1	\$ 75,000	\$ 75,000	1	\$ 50,000	\$ 50,000	1	\$ 50,000	\$ 50,000
GC4	Traffic Control & Safety	LS	1	\$ 100,000	\$ 100,000	1	\$ 100,000	\$ 100,000	1	\$ 100,000	\$ 100,000	1	\$ 100,000	\$ 100,000
1	Utility Pole Relocations	units	20	\$ 5,000	\$ 100,000	15	\$ 5,000	\$ 80,000	12	\$ 5,000	\$ 60,000	12	\$ 5,000	\$ 60,000
2	Clearing and Grubbing	m ²	3000	\$ 12	\$ 36,000	2200	\$ 12	\$ 26,400	2,000	\$ 12	\$ 24,000	2,000	\$ 12	\$ 24,000
3	Full Depth Reclamation of Bituminous Pavement and Underlying Granulars - Including Grading	m ²	30,000	\$ 2	\$ 59,934	30,000	\$ 2	\$ 59,934	30,000	\$ 2	\$ 59,934	30,000	\$ 2	\$ 59,934
4	Earth Excavation (Cuts)	m ³	110,000	\$ 13	\$ 1,375,000	90,000	\$ 13	\$ 1,152,900	22,000	\$ 13	\$ 281,820	20,000	\$ 13	\$ 256,200
5	Earth Fill (Re-Use of Cut Material)	tonnes	60,000	\$ 15	\$ 900,000	30,000	\$ 15	\$ 450,000	10,000	\$ 15	\$ 150,000	10,000	\$ 15	\$ 150,000
6	Earth Disposal	m ³	50,000	\$ 10	\$ 500,000	33,000	\$ 10	\$ 330,000	6,000	\$ 10	\$ 60,000	6,000	\$ 10	\$ 60,000
7	Rock Excavation	m ³	2,000	\$ 100	\$ 200,000	10,000	\$ 100	\$ 1,000,000	800	\$ 100	\$ 80,000	800	\$ 100	\$ 80,000
8	Granular A Base (150mm)	tonnes	28,000	\$ 20	\$ 560,000	22,000	\$ 20	\$ 440,000	20,000	\$ 20	\$ 400,000	20,000	\$ 20	\$ 400,000
9	Granular B Subbase	tonnes	9,800	\$ 14	\$ 138,156	7,700	\$ 14	\$ 108,551	12,000	\$ 14	\$ 169,170	7,000	\$ 14	\$ 98,883
10	Asphalt (HL4; 50mm)	tonnes	5,000	\$ 100	\$ 500,000	4,400	\$ 100	\$ 440,000	4,400	\$ 100	\$ 440,000	4,400	\$ 100	\$ 440,000
11	Rock Embankments/Armouring	m ³	3,000	\$ 25	\$ 75,000	400	\$ 25	\$ 10,000	400	\$ 25	\$ 10,000	400	\$ 25	\$ 10,000
12	Cross Culvert Replacements/New	m	850	\$ 1,000	\$ 850,000	850	\$ 1,000	\$ 850,000	850	\$ 1,000	\$ 850,000	850	\$ 1,000	\$ 850,000
13	Entrance Culvert Replacements	m	280	\$ 300	\$ 84,000	280	\$ 300	\$ 84,000	280	\$ 300	\$ 84,000	280	\$ 300	\$ 84,000
14	Entrance Restoration (Gravel)	units	35	\$ 300	\$ 11,000	35	\$ 300	\$ 11,000	35	\$ 300	\$ 10,500	35	\$ 300	\$ 10,500
15	Guide Rail (Cable)	m	250	\$ 100	\$ 25,000	250	\$ 100	\$ 25,000	250	\$ 100	\$ 25,000	250	\$ 100	\$ 25,000
16	Topsoil	m ²	60,000	\$ 5	\$ 300,000	60,000	\$ 5	\$ 300,000	45,000	\$ 5	\$ 225,000	45,000	\$ 5	\$ 225,000
17	Seeding	m ²	60,000	\$ 2	\$ 120,000	60,000	\$ 2	\$ 120,000	45,000	\$ 2	\$ 90,000	45,000	\$ 2	\$ 90,000
18	Road Signage, Hazard Identification	LS	1	\$ 25,000	\$ 25,000	1	\$ 25,000	\$ 25,000	1	\$ 25,000	\$ 25,000	1	\$ 25,000	\$ 25,000
Sub-Total					\$ 6,767,090			\$ 6,227,785			\$ 3,609,424			\$ 3,508,317
Contingency (20%)					\$ 1,353,418			\$ 1,245,557			\$ 721,885			\$ 701,663
Estimated Total Cost (High Range)					\$ 8,120,507			\$ 7,473,342			\$ 4,331,309			\$ 4,209,980
Construction Budget (incl 20% Contingency)					\$ 4,450,920			\$ 4,450,920			\$ 4,450,920			\$ 4,450,920
Difference (Surplus / Deficit)					-\$ 3,669,587			-\$ 3,022,422			\$ 119,611			\$ 240,940

Notes:

1. Estimate based on information available at time of issuance.
2. Cost estimate does not include land acquisition costs for road relocation/realignment, including surveying, legal, or other land acquisition-related costs.

Table 2

Potential Effects Summary & Evaluation of Alternatives
Project File Report
Municipal Class Environmental Assessment (Schedule B)
Reconstruction of Ferguson Lake Road

Criteria	Alternative #1 90kph Design Speed (TAC)	Alternative #2 60kph Design Speed (TAC)	Alternative #3 60 / 70kph Design Speed (Modified)	Alternative #4 60kph Design Speed (Modified)
Natural Environment				
Water Quality / Drainage	Medium	Low	Low	Low
Wetlands	Medium	Medium	Low	Low
Wildlife Habitat - Terrestrial	High	Medium	Low	Low
Wildlife Habitat - Aquatic	Medium	Low	Low	Low
Wildlife Habitat - Avian	High	High	Low	Low
Significant Species / Species at Risk	High	Medium	Low	Low
Socio-Cultural Environment				
Land Use / Land Needs	High	High	Low	Low
Cultural Heritage / Archaeology	Medium	Low	Low	Low
Traffic	High	Medium	Medium	Low
Visual Aesthetics	High	Low	Low	Low
Public Opinion	High	High	Low	Low
Public Health and Safety	High	Low	Medium	Low
Economic Environment				
Capital Cost	High	High	Medium	Low
Operating Cost (Long-Term Asset Maintenance/Management)	Medium	Medium	Low	Low
Summary of Potential Net Effects	High	High	Medium	Low

Figures





SOURCE: GOOGLE EARTH, 2019



13 Commerce Court
Bancroft, Ontario
613.332.0057
greenview-environmental.ca

1	JUL21-21	MAG	ISSUED FOR PUBLIC RECORD
0	JUL13-21	MAG	ISSUED FOR CLIENT REVIEW
No.	DATE	BY	REMARKS

DRAWN BY:	CHECKED BY:
MAG	DMH
DESIGNED BY:	APPROVED BY:
MAG	DMH
SCALE:	DATE:
NTS	JULY 2021



PROJECT: STUDY AREA PLAN
PROJECT FILE REPORT
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT (SCHEDULE B)
RECONSTRUCTION OF FERGUSON LAKE ROAD

PROJECT No:
102.21.025

FIGURE:
1
1 OF 1

Appendix A



EXHIBIT A.1**KEY FEATURES OF THE MUNICIPAL CLASS EA**

NOTE: This flow chart is to be read in conjunction with Part A of the Municipal Class EA

BASIC PROCESS

(See Exhibit A.2 for detailed flow chart)

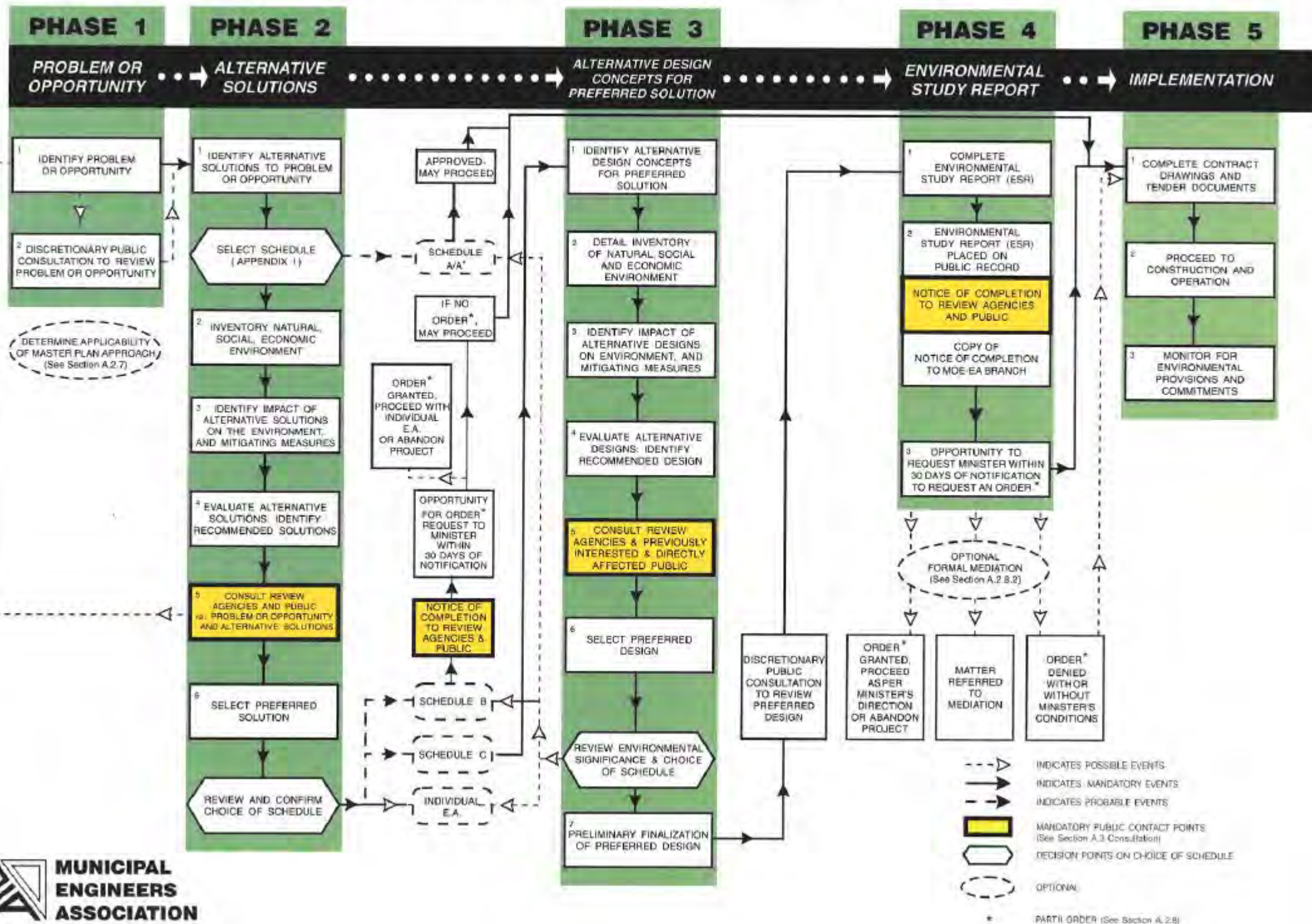
	PHASE 1	PHASE 2	PHASE 3	PHASE 4	PHASE 5
	PROBLEM OR OPPORTUNITY	ALTERNATIVE SOLUTIONS	ALTERNATIVE DESIGN CONCEPTS FOR PREFERRED SOLUTION	ENVIRONMENTAL STUDY REPORT	IMPLEMENTATION
Consultation Requirements	Optional	Mandatory	Mandatory	Mandatory	Optional
SCHEDULE A/A* PROJECTS⁽¹⁾	✓ ⁽²⁾				✓
SCHEDULE B PROJECTS⁽¹⁾	✓	✓			✓
SCHEDULE C PROJECTS⁽¹⁾	✓	✓	✓	✓	✓
MASTER PLANS⁽¹⁾ (See Section A.2.7)	✓	✓ (As a minimum Master Plans address Phases 1 and 2)	✓ ⁽²⁾	✓ ⁽²⁾	✓ ⁽²⁾

NOTES:

Actions required during relevant phase

- (1) Schedule A, A*, B and C projects and Master Plans can also be integrated with the requirements of the Planning Act (See Section A.2.9)
- (2) Complete Phases 3 and 4 for any Schedule C projects included in the Master Plan prior to implementation
- (3) For Schedule A* projects, public to be advised. See Section A.1.2.3.

NOTE: This flow chart is to be read in conjunction with Part A of the Municipal Class EA



Appendix B



May 28, 2020

BY ELECTRONIC MAIL

Township of Greater Madawaska

19 Parnell Street
PO Box 180
Calabogie, Ontario
K0J 1H0
(aholtzhauer@greatermadawaska.com)

Attention: Ms. Allison Holtzhauer
CAO/Clerk-Treasurer

Re: Stakeholder Consultation Plan (Version 1.0)
Municipal Class Environmental Assessment (Schedule B)
Reconstruction of Ferguson Lake Road Project
Greenview File: 102.20.025

Dear Ms. Holtzhauer:

Please accept the following Stakeholder Consultation Plan (Plan) related to a Municipal Class Environmental Assessment (MCEA) Schedule B planning process for the Reconstruction of Ferguson Lake Road Project (Project) for the Township of Greater Madawaska (Township; Proponent).

1.0 Background

This Plan has been prepared in order to meet and/or exceed the requirements of the MCEA process for the Project, as set out in the MCEA (Municipal Engineers Association [MEA], 2015), as amended. The MCEA process is shown in the attached Figure 1 (Exhibit A.2 – Municipal Class EA Planning and Design Process) from the MCEA Manual (MEA, 2015). At the time of preparation of this Plan, the MCEA for the Project has been identified as a Schedule B undertaking.

This Plan is intended to be a “living document”, and updated accordingly throughout the planning process, as may be required from time to time, due to new information, direction from key agencies, Stakeholder input, or any pertinent reason considered by the Proponent.

The Plan has been developed with due consideration of other supporting documentation and guidance from the MEA current as of the date of the issuance.

2.0 General Project Description

The Project is understood to include the reconstruction of Ferguson Lake Road in the Township of Greater Madawaska (Township), from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road).

3.0 Purpose, Goals, and Objectives

This Plan is intended to provide terms of reference for the project with respect to Stakeholder engagement and information sharing, as well as the objectives of effective consultation. Specifically, this Plan will address:

1. The Project Team (Section 4.0).
2. Stakeholders to be contacted and potential sensitive subjects (Section 5.0).
3. Level of consultation, appropriate means of contact, and general timing of contact (Section 6.0).
4. Preparation of a Consultation Record (Section 7.0).
5. Responding to Stakeholder input (Section 8.0).
6. Conflict resolution (Section 9.0)

The goal of the consultation process planned as part of this MCEA Schedule B Project is to facilitate an effective two-way communication between the Township (Proponent) and key Stakeholders, such that the exchange of information between parties effectively provides meaningful input towards the decision-making process of the undertaking.

With respect to the objectives of the Project, it is the Township's intent to:

1. Ensure that minimum consultation requirements defined in the MCEA Manual are met with respect to key Stakeholders, including the General Public, Property Owners Adjacent to the Project Area, the Ontario Ministry of the Environment, Conservation, and Parks (MECP) Regional Office Environmental Assessment (EA) Coordinator, Other Pertinent Review Agencies, and First Nation and Metis Communities.
2. Undertake the consultation process such that all interested Stakeholders may have to opportunity to provide their input in a meaningful manner .
3. Ensure that Stakeholder input provided to the Township throughout the consultation process is considered in the decision-making process.

4.0 Project Team

The Project Team for the Project responsible for completing project oversight, technical aspects of the work, and facilitating two-way communication with Stakeholders:

1. Township of Greater Madawaska (Proponent).
2. Greenview Environmental Management Limited (Prime Consultant).

As part of the technical work for the project, sub-consultants have been retained to assist the Prime Consultant, including for assessing and reporting on geotechnical, natural heritage, and cultural heritage factors.

Communications with Stakeholders for the Project are the responsibility of the Proponent and the Prime Consultant only. Sub-consultants for the Project are not responsible for direct communications with Stakeholders, and any information sharing with respect to work conducted by sub-consultants will be directed through the Prime Consultant.

All formal, two-way communications between the Project Team and Stakeholders should be in writing only, either in hardcopy (i.e. by mail) or electronic (i.e. by e-mail).

The following primary points of contact for the project include:

- | | |
|---|---|
| 1. Proponent:

CAO/Clerk-Treasurer
Township of Greater Madawaska
Allison Holtzhauer
19 Parnell Street,
P.O. Box 180,
Calabogie, Ontario
K0H 1H0
cao@greatermadawaska.com | 2. Prime Consultant:

Senior Project Manager
Dan Hagan, P.Geo.
Greenview Environmental Management Limited
PO Box 100,
Bancroft, Ontario,
K0L 1C0
solutions@greenview-environmental.ca |
|---|---|

5.0 Stakeholders to be Consulted and Potential Sensitive Subjects

As part of the Stakeholder consultation process, various Stakeholders should be contacted during each of the points of contact required by the Schedule B MCEA process. At a minimum, the following Stakeholders should be contacted during each point of contact:

1. MECP Regional Office EA Coordinator.
2. General Public.
3. Property Owners Adjacent to the Project Area.
4. Other Pertinent Review Agencies and Groups with Interest in the Study Area.
5. First Nations and Metis Communities.

If a Stakeholder notifies the Proponent and/or Prime Consultant following a point of contact event that they wish to be removed from future notices, the identified Stakeholder may be removed from the contact list for the Project.

Other pertinent review agencies to be contacted as part of the MCEA Schedule B process should be determined from the list of agencies in Section A.3.6 of the MCEA Manual (MEA, 2015), as amended/applicable. Decisions on what agencies should be contacted for the project should be determined by the Proponent and the Prime Consultant. Any potential changes to the naming convention of specific agencies should be investigated prior to any official contact attempts.

Potential sensitive subjects that may be of interest to Stakeholders during the course of this MCEA Schedule B project are interpreted to include the following potential natural, social, economic, or cultural environmental matters:

1. Private land area requirements for road reconstruction.
2. Climate change and potential impacts of the Project on the environment.
3. Potential environmental effects of road reconstruction activities.

6.0 Level of Consultation

In accordance with the MCEA Manual (MEA, 2015), the minimum level of consultation for a Schedule B MCEA requires two (2) mandatory point of contact events; however, given the scope of this Project and the likelihood for Stakeholder input in the project planning process, a supplemental point of contact event is planned to occur. The point of contact events for the Project have been determined as follows:

1. Point of Contact #1 – Notice of Study Commencement.
2. Point of Contact #2 – Summary of Environment Studies and Alternative Solutions.
3. Point of Contact #3 – Notice of Study Completion.

The format for the notices related to the point of contact events may be at the discretion of the Proponent and the Prime Consultant; however, each notice must include the following minimum requirements per the MCEA Manual (MEA, 2015):

1. Name and address of the Proponent.
2. Summary description of the Project, the nature of the problem/opportunity, and a need for a suitable solution.
3. Identify that the Project is to be conducted per the requirements of the MCEA Schedule B process.
4. Details as to where and when details on the project may be made available to Stakeholders (as may be available at the time of each Point of Contact event).
5. Name/title of contact person that Stakeholder comments should be directed (i.e. Proponent).
6. With respect to Point of Contact #3 only:
 - a. The date by which comments are to be received by the Proponent from Stakeholders .
 - b. Advise Stakeholders of their rights to request a Part II Order to the Minister of the Environment, Conservation, and Parks (MECP). The address of the Minister, the date by which Stakeholder comments must be received by the Ministry, and information on the mandatory form for requesting a Part II Order and where it can be found should be included (attached).

With respect to Stakeholder notifications, and in order to be consistent with the requirements of the MCEA Manual (MEA, 2015) as amended, the municipality should review their Municipal Notice Bylaw (or equivalent), and update it as may be required at the outset of the Project. The intent of updating the Municipal Notice Bylaw would be to include alternative methods of approved Stakeholder notification measures (other than posting in local newspapers). Other options for Stakeholder notification may include, but are not necessarily limited to, the following:

1. Municipal websites.
2. Printed/mailed notices.
3. Media releases.
4. Municipal social media platforms.
5. Public/Community space signage.
6. Flyers/posters in public spaces.
7. Road signs.

Additionally, consideration should be given to how best to provide general Stakeholder notification of the Project during the current COVID-19 pandemic, where physical distancing measures are in place and many public facilities are closed to the public.

The following sub-sections present the requirements of each point of contact planned for the Project.

5.1 Point of Contact #1 – Notice of Study Commencement

Point of Contact #1 – Notice of Study Commencement is to be completed during Phase 2 – Alternative Solutions of the MCEA planning and design process, and is to be completed near the end of the Phase 2 process. Point of Contact #1 is a mandatory point of contact for the Schedule B MCEA process. The purpose of Point of Contact #1 is to:

1. Identify the problem or opportunity.
2. Identify alternative solutions being evaluated for the problem or opportunity, established as of Phase 2 of the MCEA process.
3. Identify possible impacts to a Stakeholder.
4. Allow the Stakeholders the opportunity to comment on the Project, the identified alternative solutions, and/or to assist in the selection of the preferred solution.
5. Any available information on the time/date for Point of Contact #2 – Summary of Environment Studies and Alternative Solutions.
6. Contact information for the Proponent and Prime Consultant.

Point of Contact #1 – Notice of Study Commencement represents an opportunity to explain the MCEA process to Stakeholders and to outline the rights of Stakeholders with respect to participation in the process, including Stakeholder roles, responsibilities, and their right to request a Part II Order following issuance of Point of Contact #3 – Notice of Study Completion.

Point of Contact #1 – Notice of Study Commencement should include the following:

1. A Notice of Study Commencement identifying the relevant information noted above.
2. A Project Comment Form for Stakeholders to provide the Study Team with input on the Project.

The Project Comment Form allows for Stakeholders to identify the level of consultation they desire for the Project including:

- If the Stakeholder has no further interest in the Project and can be removed from the mailing list.
- If the Stakeholder has no concerns or comments, but wishes to be kept informed on the Project.
- If the Stakeholder will be providing information or comment under separate cover.
- If the Stakeholder wishes to be involved further in the Project and has information and/or comments to be addressed directly on the Project Comment Form.

In advance of Point of Contact #1 – Notice of Study, the Proponent should complete and submit a *Streamlined EA Project Information Form* to the MECP Regional Office EA Coordinator. The *Streamlined EA Project Information Form* is required by the MECP Regional Office EA Coordinator in order to track all Class Environmental Assessment (EA) projects in the Province of Ontario. All key Stakeholders should be contacted by the various communication methods described below on the same date, such that no Stakeholder receives information in advance of others. The exception to this is for the contact of First Nations and Metis Communities applicable to the Project. Subsequent to providing the MECP Regional Office EA Coordinator with Point of Contact #1 – Notice of Study Commencement, the MECP Regional Office EA Coordinator is to provide the Proponent with a list and contact information of relevant First Nations and Metis Communities to be contacted as part of the consultation process. Therefore, relevant First Nations and Metis Communities to the Project will receive the same Point of Contact #1 – Notice of Study Commencement at a later date than the General Public, Property Owners Adjacent to the Project Area, the MECP Regional Office EA Coordinator, and Other Review Agencies (as below).

Point of Contact #1 – Notice of Study Commencement is to be communicated by several methods, depending on the type of Stakeholders to be contacted (Table 1, below).

Table 1: Stakeholder Categories & Communication Methods

Stakeholder Category	Communication Methods
General Public	<ul style="list-style-type: none"> Published Notices of <i>Notice of Study Commencement</i> only. <ul style="list-style-type: none"> i.e. newspaper advertisements, municipal web pages and/or social media (or equivalent), etc. Notice should include contact information for where General Public can obtain a <i>Project Comment Form</i> for submission. Published notices should be completed in accordance with the Municipal Notice Bylaw (or equivalent).
Property Owners Adjacent to the Project Area	<ul style="list-style-type: none"> Direct Mail, including a property owner-specific cover letter, a copy of the <i>Notice of Study Commencement</i>, and a <i>Project Comment Form</i>.
MECP Regional Office EA Coordinator	<ul style="list-style-type: none"> Electronic Mail (i.e. email), including a cover letter directed to the attention of the applicable MECP Regional Office EA Coordinator, and a <i>Project Comment Form</i>. Completion of a MECP <i>Streamlined EA Project Information Form</i> should be submitted to the MECP Regional Office EA Coordinator prior to the issuance of the <i>Notice of Study Commencement</i>.
Other Review Agencies and Groups with Interest in the Study Area	<ul style="list-style-type: none"> Either Direct Mail or Electronic Mail (i.e. email), including a review agency-specific letter, a copy of the <i>Notice of Study Commencement</i>, and a <i>Project Comment Form</i>.
First Nations and Metis Communities	<ul style="list-style-type: none"> Contact information for pertinent First Nations and Metis Communities to the Project are provided by the MECP Regional Office EA Coordinator subsequent to the Proponent submitting the <i>Notice of Study Commencement</i>. Pertinent First Nations and Metis Communities should not be contacted until they are identified as part of the MECP Regional Office EA Coordinator's response to the <i>Notice of Study Commencement</i>. Either Direct Mail or Electronic Mail (i.e. email), including a specific letter to the pertinent First Nations contact person, a copy of the <i>Notice of Study Commencement</i>, and a <i>Project Comment Form</i>.

Given the scope and importance of this Project to the Township, and the likelihood for Stakeholder input in the project planning process, a supplemental point of contact event (Point of Contact #2) is planned to occur at the end of the Phase 2 – Alternative Solutions requirement of the MCEA, and prior to proceeding with the mandatory Point of Contact #3 – Notice of Study Completion.

5.2 Point of Contact #2 – Summary of Environment Studies and Alternative Solutions.

Point of Contact #2 – Summary of Environmental Studies and Alternative Solutions is planned to be completed following completion of Phase 2 – Alternative Solutions of the MCEA planning and design process, and is to be completed prior to proceeding with Point of Contact #3 – Notice of Study Completion. The Point of Contact #2 – Summary of Environmental Studies and Alternative Solutions is intended to provide an additional opportunity to share information with Stakeholders relative to the project, in a similar manner as required in the more stringent Schedule C MCEA process. Given that this Project has been determined to be a Schedule B MCEA Project, the inclusion of Point of Contact #2 – Summary of Environmental Studies and Alternative Solutions is entirely a voluntary component of the process.

The purpose of Point of Contact #2 is to:

1. Identify to Stakeholders that pertinent environmental studies have been completed.
2. Identify to Stakeholders that a review of alternative solutions has been completed.

3. Notify Stakeholders of details on how to access the information related to Point of Contact #2.
4. Provide Stakeholders with contact details for the Proponent and Prime Consultant in order to request additional information of the MCEA process and the Project.
5. Notify the Stakeholders that further comments from Stakeholders will be invited following the issuance of Point of Contact #2.
6. Notify Stakeholders that, subject to comments received by the Proponent and Prime Consultant following the issuance of Point of Contact #2, the Proponent plans to proceed with the completion of the Schedule B MCEA process. Completion of the Schedule B MCEA process includes the completion and posting of the mandatory Point of Contact #3 – Notice of Study Completion for a minimum 30-day review period.

Notification to Stakeholders as part of Point of Contact #2 – Summary of Environmental Studies and Alternative Solutions should be conducted/distributed in a similar manner as noted in Table 1 – Stakeholder Types and Communication Methods.

As part of Point of Contact #2 - Summary of Environmental Studies and Alternative Solutions, the Proponent and Prime Consultant should communicate the following to interested Stakeholders:

1. Review and discuss the results and conclusions of the detailed studies and investigations completed as part of the Project.
2. Review and discuss the results of the evaluation of the alternative solutions of the Project, identify the recommended design alternative, and how the recommended design alternative is to be employed to implement the recommended preferred solution.
3. Review and discuss potential environmental impacts and their relationship to the recommended preferred solution.
4. Obtain additional input from Stakeholders with respect to the Project.

Point of Contact #2 - Summary of Environmental Studies and Alternative Solutions represents an opportunity to further explain the MCEA process to Stakeholders and to reiterate the rights of Stakeholders with respect to participation in the process, including Stakeholder roles, responsibilities, and their right to request a Part II Order following issuance of Point of Contact #3 – Notice of Study Completion.

Given the current COVID-19 pandemic impacting Ontario at the time of preparation of this Plan, the nature of Point of Contact #2 - Summary of Environmental Studies and Alternative Solutions is required to be conducted in a manner that does not include a physical, public gathering.

Therefore, Point of Contact #2 - Summary of Environmental Studies and Alternative Solutions may need to be conducted in an alternative manner that may include any of, but not necessarily limited to, the following options:

1. A virtual Public Consultation Event conducted via the internet at a specific date/time (i.e. a meeting conducted on an internet-based virtual meeting environment). Attendance at such a virtual meeting could be requested by interested Stakeholders to the Prime Consultant using a Meeting Request Form included as part of the Point of Contact #2 – Summary of Environmental Studies and Alternative Solutions documentation. For security purposes, it is recommended that access information to any virtual meeting be provided to interested parties directly, rather than making access to any virtual meeting publicly-available in an unregulated manner.
2. A pre-recorded virtual Open House, reviewing the results and conclusions of the Schedule B MCEA process. The pre-recorded Open House presentation could then be posted to the municipal website for viewing by interested Stakeholders at their convenience.

3. A Community Survey and/or Online Discussion Groups.
4. Personal, on-site meetings with select Stakeholders, while maintaining proper health and safety measures.
5. A project-specific website or weblink.
6. Other options (to be determined).

In advance of issuance of Point of Contact #1 – Notice of Study Commencement, the Proponent and the Prime Consultant should discuss the options for Point of Contact #2 - Summary of Environmental Studies and Alternative Solutions during the COVID-19 pandemic and determine the preferred course of action so that it can be effectively communicated to pertinent Stakeholders.

5.3 Point of Contact #3 – Notice of Study Completion

Point of Contact #3 – Notice of Study Completion is to be completed following completion of Phase 2 – Alternative Solutions. The Notice of Study Completion is intended to advise Stakeholders of the completion of the planning process for the Project. Point of Contact #3 is a mandatory point of contact for the Schedule B MCEA process.

The purpose of Point of Contact #3 is to communicate to pertinent Stakeholders the following:

1. Pertinent summary details of the Project.
2. Notification that the Proponent intends to proceed with detailed design and construction of the project following completion of the thirty (30) calendar day Stakeholder review period.
3. Where pertinent details related to the Project may be seen/reviewed.
4. The date by which Stakeholder comments must be received.
5. Identify the rights of the Stakeholders as to requesting that the MECF order a change to the Project status and require a higher level of assessment under an individual Environmental Assessment process (a Part II Order). Sufficient and pertinent reasons for the request by the Stakeholder must be included in the Part II Order request on a mandatory form (attached).

Notification to Stakeholders as part of Point of Contact #3 – Notice of Study Completion should be conducted/distributed in a similar manner as noted in Table 1 – Stakeholder Types and Communication Methods.

With respect to COVID-19 and the posting of the Notice of Study Completion for Stakeholder review and comment, it is anticipated that no hardcopy versions of the Notice of Study Completion or other project documents will be made available in a public space due to the threat of transmission of the virus from person to person. Instead, it is anticipated that electronic versions (i.e. PDFs) of pertinent details will be posted for free download (i.e. on a municipal website), direct mail of hardcopies to pertinent Stakeholders, and/or distribution electronically (i.e. e-mail) to pertinent Stakeholders. The locations for download of relevant documents should be included in Point of Contact #3 – Notice of Study Completion.

7.0 Preparation of a Consultation Record

Per the requirements of the MCEA Manual (MEA, 2015), a detailed Consultation Record should be prepared and maintained by the Proponent throughout the Project, and should include, at a minimum, the following components:

1. Copies of all consultations with Stakeholders.
2. Proof of delivery of documents to Stakeholders.
3. Any follow-up contact/communications with Stakeholders (as applicable).
4. Explanations of how Stakeholder concerns were addressed (as applicable).

In the event that a Part II Order proceeds with respect to the Project, the Consultation Record is understood to be a priority item that would be requested to be provided to the MECP and should be readily available, as noted in the MCEA Manual (MEA, 2015), as amended.

8.0 Responding to Stakeholder Input

As Stakeholder input on the MCEA Schedule B process for the Project may be received following each point of contact, the following processes should be considered in the response process to each of the anticipated Stakeholder types indicated in Table 1 – Stakeholder Types and Communication Methods:

7.1 General Public

All General Public comments received as part of the MCEA Schedule B process should be reviewed by the Project Team, including the Proponent and the Prime Consultant. Based on the Project Team's review of the General Public comments, and on a case-by-case basis, it should be determined whether a formal response to the comments should be prepared and submitted to the Stakeholder in question. It should be noted that not all General Public comments received as part of the MCEA Schedule B process will require a specific response, and the necessity for a formal response will need to be assessed based on the content of the original General Public comment received.

Based on the content of the received comments from each General Public Stakeholder and the perceived validity as it pertains to the Project, the Project Team should determine whether the comments should be integrated further to the Project as part of future Stakeholder consultations (i.e. points of contact).

At a minimum, the Project Team should provide a general response to the General Public Stakeholder noting that their comment(s) have been received and have been considered by the Project Team as part of the MCEA Schedule B process.

7.2 Property Owners Adjacent to the Project Area

Review comments received from owners of property abutting the Project should be considered in a similar manner as noted in Section 7.1 (General Public); however, since these property owners are contacted directly by the Project Team with respect to each point of contact, each property owner should be responded to individually with respect to their specific comments.

7.3 MECP Regional Office EA Coordinator

Review comments received from the MECP Regional Office EA Coordinator (EA Coordinator) should require an elevated level of review and consideration. It is understood that the Project Team is to work in close association with the EA Coordinator during the course of the MCEA Schedule B project.

In the event that detailed review comments are received from the EA Coordinator relative to the Project, then the Project Team should provide response comments back to the EA Coordinator commensurate with the level of detail included in the original review comment document from the EA Coordinator. The Project Team should endeavour to effectively answer any comments or concerns that the EA Coordinator may have, to the satisfaction of the EA Coordinator, in all instances.

7.4 Other Review Agencies

Review comments received from any of the other review agencies contacted as part of the Stakeholder consultation process should require an elevated level of review and consideration, consistent with that employed to the EA Coordinator.

In the event that detailed review comments are received from any of the other review agencies relative to the Project, then the Project Team should provide response comments back to the agency in question commensurate

with the level of detail included in the original review comment document from the review agency. The Project Team should endeavour to effectively answer any comments or concerns that any of the other review agencies may have, to the satisfaction of both parties.

7.5 First Nations & Metis Communities

Given that the First Nations contacted as part of the Stakeholder consultation process are set out by the MECP Regional Office EA Coordinator, review comments received from any First Nations should require an elevated level of review and consideration, consistent with that employed to the EA Coordinator.

In the event that detailed review comments are received from any First Nations relative to the Project, then the Project Team should provide response comments back to the First Nation in question commensurate with the level of detail included in the original review comment document from the First Nation Stakeholder. The Project Team should endeavour to effectively answer any comments or concerns that any First Nations may have, to the satisfaction of both parties.

9.0 Dispute Resolution

In the event that any aspect of the project reaches a level where specific concerns cannot be resolved, a dispute resolution process may be considered. This process may include negotiation, mediation, and/or arbitration stages, as deemed relevant to the project, and not addressed in a Part II Order.

10.0 Closing

As noted in Section 2.0, the intent of this Plan is to provide a framework for the Stakeholder consultation process and identify (at a minimum) the steps to be completed by the Proponent as part of satisfying the mandatory components of an MCEA Schedule B Project with respect to Stakeholder notification efforts.

As may be required, this Plan (Version 1.0) may be modified during the course of the Project, in order to reasonably meet the needs of the Proponent and Stakeholders. At the discretion of the Proponent, minimum mandatory Stakeholder engagement efforts may be expanded and/or adapted on an as-needed basis; however, the minimum mandatory components per the MCEA Manual (MEA, 2015) must be maintained in all cases.

Respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager/Geologist

Attachments: *Figure 1 – Exhibit A.2 – Municipal Class EA Planning and Design Process*
MECP Part II Order Request Form (Mandatory Form – July 1, 2018)
Greenview Statement of Service Conditions and Limitations

Notice of Completion Template Wording

Interested persons may provide written comments to our project team by **DATE**. All comments and concerns should be sent directly to **PROPONENT CONTACT** at the **COMPANY/MUNICIPALITY**.

In addition, a request may be made to the Ministry of the Environment, Conservation and Parks for an order requiring a higher level of study (i.e. requiring an individual/comprehensive EA approval before being able to proceed), or that conditions be imposed (e.g. require further studies), only on the grounds that the requested order may prevent, mitigate or remedy adverse impacts on constitutionally protected Aboriginal and treaty rights. Requests on other grounds will not be considered. Requests should include the requester contact information and full name.

Requests should specify what kind of order is being requested (request for conditions or a request for an individual/comprehensive environmental assessment), how an order may prevent, mitigate or remedy potential adverse impacts on Aboriginal and treaty rights, and any information in support of the statements in the request. This will ensure that the ministry is able to efficiently begin reviewing the request.

The request should be sent in writing or by email to:

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

and

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

Requests should also be copied to the **PROPONENT** by mail or by e-mail. Please visit the ministry's website for more information on requests for orders under section 16 of the *Environmental Assessment Act* at: <https://www.ontario.ca/page/class-environmental-assessments-part-ii-order>

All personal information included in your request – such as name, address, telephone number and property location – is collected, under the authority of section 30 of the Environmental Assessment Act and is collected and maintained for the purpose of creating a record that is available to the general public. As this information is collected for the purpose of a public record, the protection of personal information provided in the Freedom of Information and Protection of Privacy Act (FIPPA) does not apply (s.37). 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.

PLACEHOLDER FOR PROPONENTS TO INSERT NOTICE OF COLLECTION TEXT, AS REQUIRED) UNDER ANY PROTECTION OF PRIVACY LEGISLATION (e.g. FIPPA, MFIPPA).

This Notice issued DATE.

Appendix C



April 17, 2019

BY ELECTRONIC MAIL ONLY

Township of Greater Madawaska

19 Parnell Street

PO Box 180

Calabogie, Ontario

K0J 1H0

aholtzhauer@greatermadawaska.com

Attention: Ms. Allison Holtzhauer, CAO/Clerk-Treasurer

**Re: Preliminary Road Condition Assessment Report
Ferguson Lake Road
UTM 18T 352716mE 5019646mN
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.19.023**

Dear Ms. Holtzhauer:

Greenview Environmental Management Limited (Greenview) is pleased to provide this report to the Township of Greater Madawaska (Township) summarizing our preliminary technical review of existing road conditions of Ferguson Lake Road, originating at Calabogie Road (Renfrew County Road 508) and extending to Flat Road, including sections of Kennelly Mountain Road and Mount St. Patrick Road. The total road length reviewed is approximately 9.30 kilometres (km).

Background & Purpose of Report

The Township has considered the upgrading/rehabilitation of the entire 9.30km alignment of the subject road to address existing safety issues and to improve commuter and commercial traffic linkage from Provincial Highway 132 (ON-132) into the centralized, urban areas of the Township, including the Village of Calabogie.

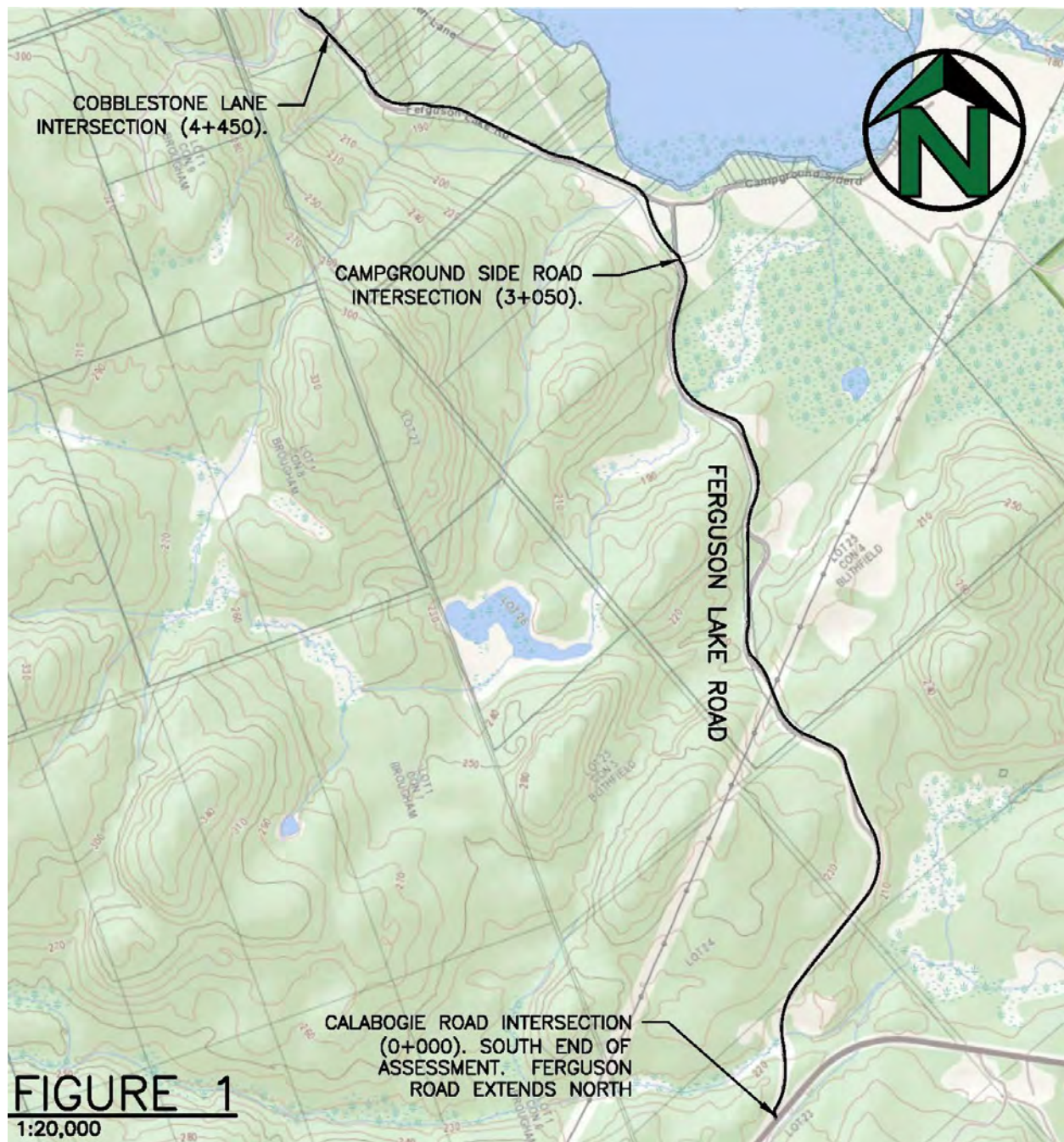
The proposed road upgrade has been contemplated in 2 phases. Figure 1 shows the proposed initial phase (Phase 1) of the road's upgrade from approximately Station 4+450 to Flat Road (end), at approximate Station 9+300. Figure 2 shows the proposed secondary rehabilitation phase (Phase 2) from Station 0+000 (start) at Calabogie Road (County Road 508) to the start of Phase 1, at approximate Station 4+450.

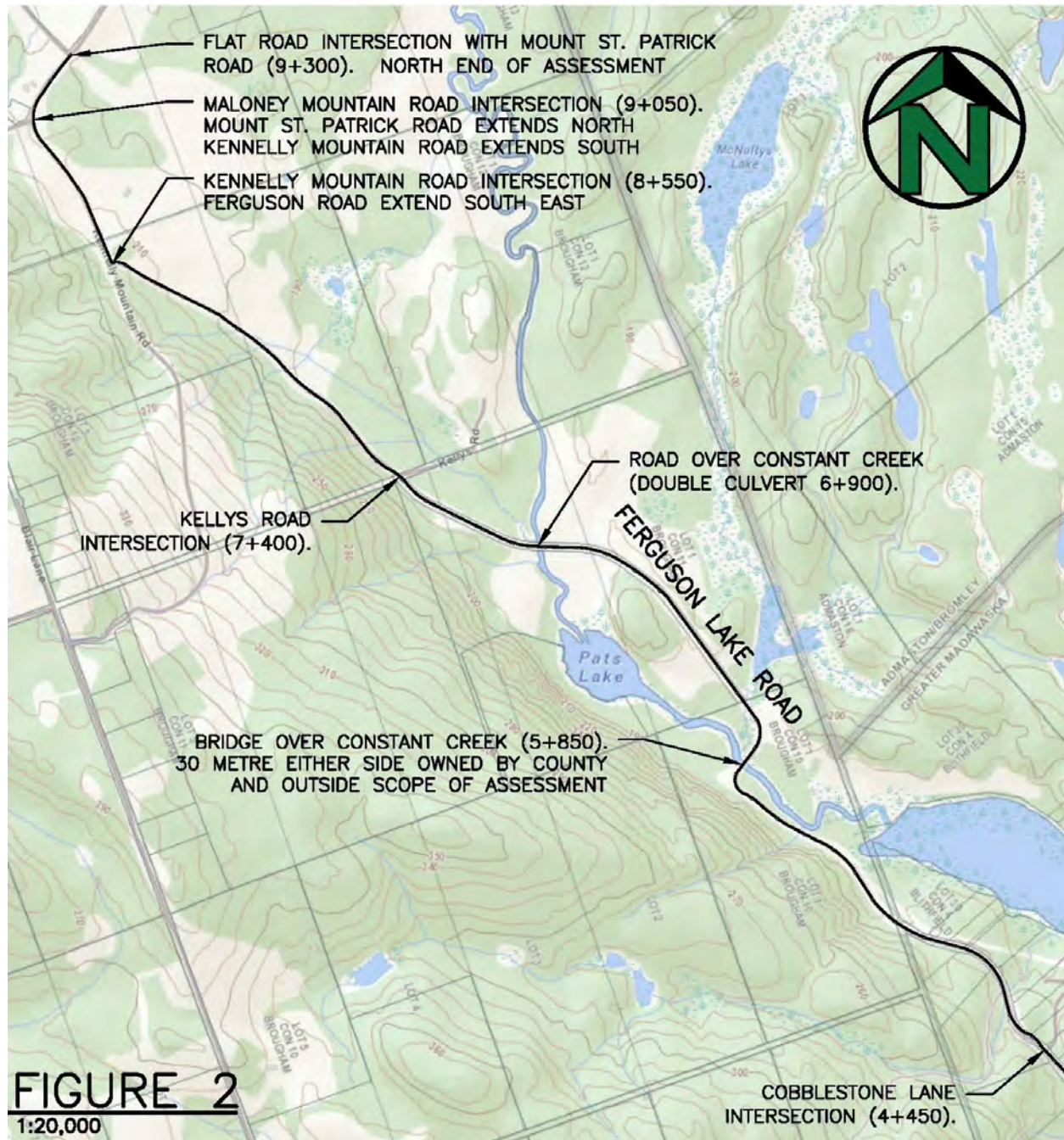
The purpose of this report is to summarize current road condition details, deficiencies, and public safety issues existing and relative to the proposed upgrading of the subject road to the proposed 80 kilometre per hour speed limit. It is Greenview's understanding that this report will be considered by the Township as part of a future application process for funding in 2019.

Site Reviews

Greenview visited the site on March 28, April 3, and April 13, 2019. Visual observations, photographs, and basic measurements were taken during these visits. No topographic or legal survey of the study area was performed or provided at this early stage of the project. Available mapping was used to determine regional and site-specific terrain, drainage, and other study area information/conditions associated with this report.

During the site visits, a designated disaster area from a recent tornado event in September 2018 was observed where it crosses Ferguson Lake Road, through an area of existing winding horizontal alignment from approximately 1+500 to 1+750 (Photographs 5, 6). This designated disaster area still has fallen trees and other vegetation that is being managed/harvested through a section of road with poor visibility and road width. Logging operations are on-going in this area.





Road Length

Ferguson Lake Road extends from Calabogie Road to Kennelly Mountain Road in an approximate north westerly direction for a total length of approximately 8.55km (Stations 0+000 to 8+550, respectively). The subject part of Kennelly Mountain Road extends north for approximately 0.50km (to 9+050) to the north west end of Mount St. Patrick Road and then west along Mount St. Patrick Road for approximately 0.25km (to 9+300) to the south end of Flat Road. This preliminary assessment includes from Station 0+000 to 9+300 (henceforth referred to as the subject road).

Road Intersections

Apart from the noted primary road sections noted above, the subject road also intersects or connects named roads: Campground Side Road at approximately 3+050; Cobblestone Lane at approximately 4+450; Kelly's Road at approximately 7+400 and; Maloney Mountain Road at approximately 9+050. The subject road provides the sole means of access to these municipal roads, and other area land accesses for timber harvesting, and other needs.

Area Terrain & Primary Drainage Systems

The subject road is located predominantly in rolling terrain at its south end from 0+000 to 1+600 (Figure 1). From 1+600, the subject road is generally located to the west of rolling terrain and to the east of relatively flat areas around Constant Creek and Fergusons Lake. The road diverts inland from Fergusons Lake through rolling terrain between 3+300 to 5+300. The road crosses Constant Creek in two locations (5+850 and 6+900, single lane bridge and large double culverts, respectively) to divert east of Pats Lake (Figure 2). The road skirts the bottom of sloped lands from 7+000 to 8+550 prior to intersecting Kennelly Mountain Road. The road generally slopes downward from 8+550 to 9+300, at the intersection of Mount St. Patrick Road and Flat Road.

Rate of Speed

The subject road has a posted speed limit of 60km/h but only one (1) sign was observed during site visits. In the absence of legislation to the contrary (municipal by-law etc.), the proscribed maximum rate of speed is presumed to be 50km/h (*Highway Traffic Act*, Part IX Rate of Speed, clause 1 (a)). The original design speed of the road is not known. A preliminary, subjective review of the road indicates that parts, but not all of the road, could be suitable for a maximum design speed of 60km/h in conformance with the *Geometric Design Guide for Canadian Roads*, TAC 2017. Some parts of the road are considered only suitable for speeds of less than 40km/h, and even less where special pre-existing conditions exist.

Road Use

The subject road provides local access to permanent and seasonal residential and recreational properties and some agricultural lands, as well as areas of active timber harvesting.

The centralized location of the road within the overall Township provides a route for traffic movement mainly to and from the urban centre of Calabogie to/from locations north and west (Dacre, Griffith, Eganville, Renfrew, et al) mainly via Flat Road, ON-132, and ON-41. The road would be considered a Collector Road in its current configuration but could also be considered an Arterial Road for the locations indicated.

Based on information provided by the Township, a projected Annual Average Daily Traffic (AADT) count for the road of 280 has been provided.

Heavy Truck, Bicycle & Pedestrian Traffic

Specific information on the current level of commercial and/or industrial truck traffic is currently not available; however, timber harvesting operations were observed and are active in several areas along the subject road alignment.

Information on actual cyclist and pedestrian traffic was not specifically available, but is estimated to be relatively high at key areas near Fergusons Lake and the Cobblestone Estates residential development (3+050 to 5+000). The new residential development has and will continue to add to bicycle and pedestrian traffic on the road.

When the road is upgraded, measures to support active transportation including pedestrian and bicycle traffic should be incorporated.

Road Width & Cross Section

Based on field measurements and other site observations, the majority of the undivided rural road is approximately 6.00m to 6.50m in wear surface width, with a measured average of 6.32m, equivalent to a 3.16m lane width. Granular shoulders vary widely in width; however, were measured during 2019 site visits from 0.50m to 1.50m in width, with a calculated average of 0.78m.

As noted above, the original road design is not known, and the existing typical road cross-section varies significantly as shown in the appended Photograph Log, between wear surfaces, shouldering, ditching, and other ancillary road conditions.

As noted above, the rolling terrain with considerable elevation relief presents a number of constraints to the existing road maintenance and future road upgrades/improvements. Numerous areas exist where measures need to be taken to address sight line issues, that will influence overall road widths, slopes, and associated land requirements accordingly.

Road Classification

Per TAC, the existing road's minimum classification would be RLU50 (rural, local, undivided with 50 km/h design speed) if the road is mainly considered for local access or RCU60 (rural, collector, undivided with 60 km/h design speed), if the road is to be considered a collector.

The following would be considered practical for design speeds up to 60 kilometres per hour (RLU50 or 60, or RCU 60):

- Lane Width: 3.0m (TAC Recommended Lower Limit, Table 4.2.1.).
- Shoulder Width: 1.0m RLU60 (1.5m RCU60).
- Side Slopes and Fill Slopes with no barrier: 4:1.
- Fill Slopes with barrier: 2:1 or: 1.5:1 for rock.
- Back Slopes: 3:1.

The Township has indicted a preference for an 80 kilometre per hour design speed. An RLU80 would require a lane width increase to 3.5m but would otherwise be per the parameters above. A classification of RCU80 has been considered below:

- Lane Width: 3.5m.
- Shoulder Width: 2.0m.

Road Alignment

In accordance with TAC guidelines, a horizontal road alignment would be derived from the design speed and the maximum superelevation of the road. The maximum recommended superelevation for rural roads is 6.0%. The minimum radii for the road would therefore be as follows (TAC Table 3.2.3.):

- At 60km/h = 130m.
- At 80km/h = 260m.

Preliminary review and assessment indicate that approximately 80% of the subject road would be in general alignment with a 60km/h design speed, while approximately 60% of the subject road would be in general alignment with an 80km/h design speed. Vertical alignment issues are noted in a number of locations where existing topography and/or where road intersections exist.

Based on the existing road conditions/alignment, realignment is anticipated to result in the need for considerable utility relocations.

Public Safety Issues

The adverse terrain of the study area presents unique and/or significant challenges for road improvements and upgrades, be it with horizontal realignments resulted in new road construction, vertical realignments that result in significant road grade changes in rolling topography, and associated challenges with any road realignment in this region where rock, watercourses, and other existing natural constraints exist.

Based on the above, and the proposed increase in speed for the subject road, a number of public safety issues are noted. In general, a considerable portion of the existing road's alignment does not meet standard minimum design guidelines in some or all standard road elements. Further, the use of the road by passenger and heavy vehicles has increased with residential development in the vicinity of Fergusons Lake.

With the increased residential development in the area of the study, and heavy industrial traffic with timber harvesting, risk to pedestrian and cyclist traffic has, and is anticipated to, increase. Measures need to be taken to promote and protect this type of traffic.

The average condition of the road is considered to be below a Pavement Condition Index (PCI) of 55 – Poor. The proposed upgrades to the road noted herein would address these condition issues.

Now and upon completion of the desired upgrades, proper signage for road speed limits, hazards, and other safety needs should be established.

Recommended Upgrade Measures

The Township has set road upgrades of the subject road as a high-priority project, due to existing road conditions noted herein, advancing deterioration, anticipated increases in traffic related to the residential development, and heavy truck traffic related to the timber harvesting, etc. In reviewing the road and related systems, the following are general comments that pertain to the road reconstruction and rehabilitation design:

- The road is planned for pavement replacement and shoulder widening to the current municipal standard. Reconstruction of the road base and subbase are also anticipated in varying extents, subject to geotechnical analysis.
- The upgraded road design should be engineered with consideration of the *Geometric Design Guide for Canadian Roads* (TAC Manual; Transportation Association of Canada [June 2017]).
- At a minimum, the road should be designed to a minimum lane width of 3.5m (7.0m total wear surface width) in accordance with TAC guidelines. It is understood that the municipal standard for road width is 7 m wide paved surface with 1.5 m gravel shoulders. A road width of 7 m is understood to accommodate for not only the residential, commercial, and heavy industrial traffic on the road, but would also significantly improve current public safety issues related to pedestrian and bicycle traffic.
- The current construction at the Barrett Chute waterfront residential development will increase the future volumes of traffic on the road, and improvements or installation of new road side public safety features should be integrated into the design.
- Special consideration should be given to paved shoulders at high volume pedestrian and cycling areas, and connecting routes to other communities and areas of interest.
- In order to improve vertical and horizontal line-of-sight issues with respect to public safety, significant road realignment is expected in specific areas of Ferguson Lake Road, most notably between approximate stations 1+000 and 1+800.
- Given that road widening works are anticipated for the rehabilitation and reconstruction, it is expected that all cross and entrance culverts along the entire road will require replacement.
- Guide rail (or other barriers) should be incorporated into the road design for all hazard areas to protect public safety.
- The need for a Municipal Class Environmental Assessment should be completed. It is currently assumed

that the rehabilitation and reconstruction of Barrett Chute Road would be classified as a Schedule B undertaking.

- The public, and other relevant stakeholders, should be consulted as part of the process, in order to review design alternatives, concepts, constraints, environmental factors, and other important elements.
- A review of maximum posted speed limit and signage requirements should be completed in accordance with TAC guidelines.

We note that any/all of the above anticipated/proposed measures would be reviewed and/or reconsidered once the planning and design aspects of the project are underway.

Closing

Greenview has prepared this report as a summary of the current road condition details, deficiencies, and parameters for a recommended upgrade strategy to meet the Township's goals and objectives for the project.

If you have any questions regarding this submission, please contact the undersigned at 613-332-0057, or tyler.peters@greenview-environmental.ca.

This report and its findings are governed by the attached statement of service qualifications and limitations.

All respectfully submitted by,

Greenview Environmental Management Limited



Tyler H. Peters, P.Eng.
Project Director

Attachments: *Study Area Plan*
 Photograph Log
 Statement of Service Conditions & Limitations



0	APR17-19	THP	ISSUED FOR FINAL REPORT
No.	DATE	BY	REMARKS

DRAWN BY:	CHECKED BY:
NAF	THP
DESIGNED BY:	APPROVED BY:
THP	THP
SCALE:	DATE:
NTS	APR 2019

CLIENT:


PROJECT:
STUDY AREA PLAN PRELIMINARY ROAD CONDITION ASSESSMENT REPORT FERGUSON LAKE ROAD TOWNSHIP OF GREATER MADAWASKA

PROJECT No:
102.19.023
FIGURE:
1 OF 1

Photograph Log

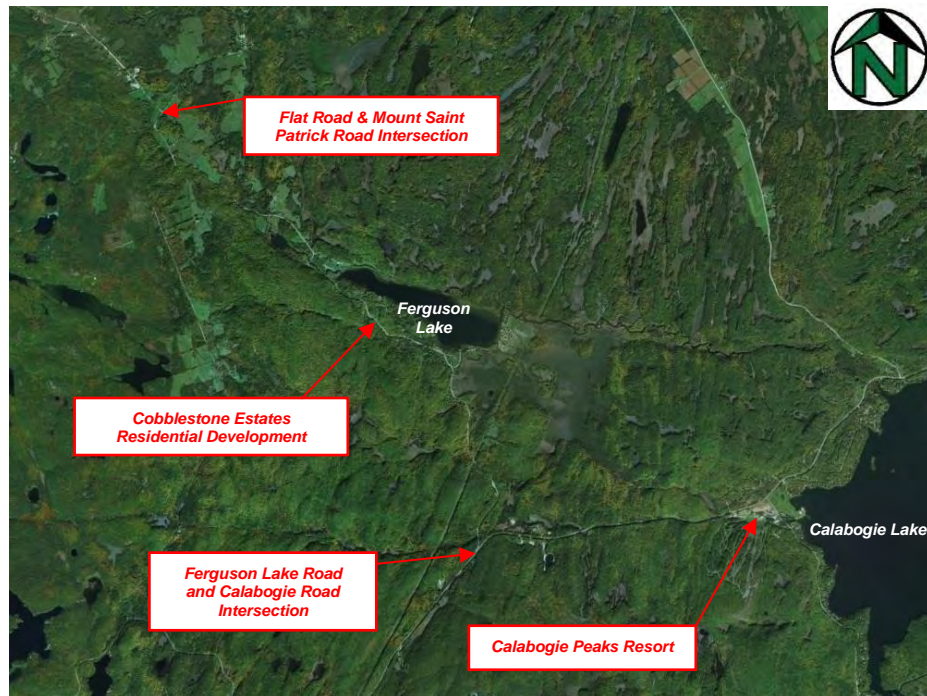


Photo 1: Aerial image of Ferguson Lake Road, identifying locations of Flat Road and Mount Saint Patrick Road intersection, Ferguson Lake Road and Calabogie Road intersection, and Calabogie Peaks Resort.



Photo 2 (Looking NE): Station 0+000 - Intersection of Calabogie Road and Ferguson Lake Road, showing adverse intersection geometry, absence of hazard signage, etc.

Photograph Log



Photo 3 (Looking W): Station 1+300 – Going down Ferguson Lake Road towards the tornado affected area, showing vegetation encroachments, minimal road width, drainage deficiencies, and deteriorating road conditions.



Photo 4 (Looking NW): Station 1+500 – Area of significant elevation change and winding road alignment, and into tornado affected area.

Photograph Log



Photo 5 (Looking NE): Station 1+575 – Tornado affected area and associated constraints and damage to road and shoulders.



Photo 6 (Looking NW): Station 1+600 – The tornado affected area, where significant road realignments, widening, and ancillary measures required.

Photograph Log



Photo 7 (Looking S): Station 1+650 – Area in need of horizontal and vertical re-alignment, road widenings, and drainage management/measures.



Photo 8 (Looking N): Station 4+000 – Ferguson Lake Road, high bedrock area and steep slopes on east side of the road.

Photograph Log



Photo 9 (Looking N): Station 5+400 – On Ferguson Lake Road, approaching the Constant Creek Bridge, insufficient hazard signage and measures to protect traffic convergence at bridge location.



Photo 10 (Looking S): Station 7+000 – Typical poor road condition section showing various cracking types and depressions, potholing and multiple repairs.

Photograph Log



Photo 11 (Looking S): Station 8+300 – The east side of Ferguson Lake Road, showing significant drainage path and management issues.



Photo 12 (Looking S): Station 8+500 – At intersection of Kennelly Mountain Road and Ferguson Lake Road, showing obstructed sightline with vertical alignment.

Photograph Log



Photo 13 (Looking E): Timber harvesting in the general vicinity of subject road. Several locations of timber extraction in operation on Ferguson Lake Road.



Photo 14 (Looking S): Area of horizontal and vertical realignment with rock removal and step slope barrier requirements.

Statement of Service Conditions and Limitations

Provision of Services and Payment

Upon documented acceptance of Greenview's proposed services, costs and associated terms by the client, Greenview may commence work on the proposed services directly. Upon retention of Greenview's services related to this project, the client agrees to remit payment for the services rendered for the specified period within (30) days of receipt as invoiced by Greenview on a typical monthly basis, unless otherwise arranged between the client and Greenview. In the event of non-payment by the client, Greenview reserves the right, without external influence or expense, to discontinue services and retain any documentation, data, reports, or other project information until such time as payment is received by Greenview.

Warranty, Limitations, and Reliance

Greenview relies on background and historical information from the client to determine the appropriate scope of services to meet the client's objectives, in accordance with applicable legislation, guidelines, industry practices, and accepted methodologies.

Greenview provides its services under the specific terms and conditions of a specific proposal (and where necessary formal contract), in accordance with the above requirements and the *Limitations Act 2002*, as amended, only.

The hypotheses, results, conclusions, and recommendations presented in documentation authored by Greenview are founded on the information provided by the client to Greenview in preparation for the work. Facts, conditions, and circumstances discovered by Greenview during the performance of the work requested by the client are assumed by Greenview to be part of preparatory information provided by the client as part of the proposal stage of the project. Greenview assumes that, until notified or discovered otherwise, that the information provided by, or obtained by Greenview from, the client is factual, accurate, and represents a true depiction of the circumstances that exist related to the time of the work.

Greenview relies on its clients to inform Greenview if there are changes to any related information to the work. Greenview does not review, analyze or attempt to verify the accuracy or completeness of the information or materials provided, or circumstances encountered, other than in accordance with applicable accepted industry practice. Greenview will not be responsible for matters arising from incomplete, incorrect or misleading information or from facts or circumstances that are not fully disclosed to or that are concealed from Greenview during the period that services, work, or documentation preparation was performed by Greenview.

Facts, conditions, information and circumstances may vary with time and locations and Greenview's work is based on a review of such matters as they existed at the particular time and location indicated in its documentation. No assurance is made by Greenview that the facts, conditions, information, circumstances or any underlying assumptions made by Greenview in connection with the work performed will not change after the work is completed and documentation is submitted. If any such changes occur or additional information is obtained, Greenview should be advised and requested to consider if the changes or additional information affect its findings or results.

When preparing documentation, Greenview considers applicable legislation, regulations, governmental guidelines and policies to the extent they are within its knowledge, but Greenview is not

qualified to advise with respect to legal matters. The presentation of information regarding applicable legislation, regulations, not intended to and should not be interpreted as constituting a legal opinion concerning the work completed or conditions outlined in a report. All legal matters should be reviewed and considered by an appropriately qualified legal practitioner.

Greenview's services, work and reports are provided solely for the exclusive use of the client which has retained the services of Greenview and to which its reports are addressed. Greenview is not responsible for the use of its services, work or reports by any other party, or for the reliance on, or for any decision which is made by any party using the services or work performed by or a report prepared by Greenview without Greenview's express written consent. Any party that uses, relies on, or makes a decision based on services or work performed by Greenview or a report prepared by Greenview without Greenview's express written consent, does so at its own risk. Except as set out herein, Greenview specifically disclaims any liability or responsibility to any third party for any loss, damage, expense, fine, penalty or other such thing which may arise or result from the use of, reliance on or decision based on any information, recommendation or other matter arising from the services, work or reports provided by Greenview.

Site Reviews and Assessments

A site assessment is created using data and information collected during the investigation of a site and based on conditions encountered at the time and particular locations at which fieldwork is conducted. The information, sample results and data collected represent the conditions only at the specific times at which and at those specific locations from which the information, samples and data were obtained and the information, sample results and data may vary at other locations and times. To the extent that Greenview's work or report considers any locations or times other than those from which information, sample results and data were specifically received, the work or report is based on a reasonable extrapolation from such information, sample results and data but the actual conditions encountered may vary from those based on extrapolations.

Only conditions, and substances, at the site and locations chosen for study by the client are evaluated; no adjacent or other properties are evaluated unless specifically requested by the client. Any physical or other aspects of the site that were not chosen for study by the client, or any other matter not specifically addressed in a report prepared by Greenview, are beyond the scope of the work performed by Greenview and such matters have not been investigated or addressed.

Confidentiality

Greenview provides proposals, reports, assessments, designs, and any other work for the sole party identified as the client or potential client in the case of proposals.

For proposals specifically, the information contained therein is confidential, proprietary information, and shall not be reproduced or disclosed to any other party than to that of the addressee of the original proposal submission, without prior written permission of Greenview.



139 Front Street, Unit 100
Belleville, Ontario
K8N 2Y6
Tel: (613) 966-4243
Fax: (613) 966-1168

NATURAL HERITAGE STUDY

for

Ferguson Lake Road Reconstruction
Township of Greater Madawaska
Renfrew County

November 2020



Submitted To:
Greenview Environmental Management
13 Commerce Court
Bancroft, ON
K0L 1C0

NATURAL HERITAGE STUDY

for

Ferguson Lake Road Reconstruction
Township of Greater Madawaska
Renfrew County

Prepared by Ainley Group

November 2020

Prepared By:

A handwritten signature in black ink, appearing to read 'D. Davison'.

David Davison, B.Sc. (Env)
Environmental Planner

A handwritten signature in black ink, appearing to read 'S. Reynolds'.

Scott Reynolds, B.Sc. (Env), EP
Senior Environmental Planner

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- Appendix D Field Forms

1.0 INTRODUCTION

Ainley Group was retained by Greenview Environmental Management (Greenview) to conduct an Natural Heritage Study (NHS) relating to the proposed reconstruction of Ferguson Lake Road from Kennelly Mountain Road to 200 m south of Campground Side Road, within the Township of Greater Madawaska, Renfrew County (**Figure 1**).

The proposed reconstruction may require modifications to the roadway footprint (i.e. straightening of existing curves) to accommodate design speed upgrades (Greenview is reviewing 60/70 kph, 70 kph, and 90 kph road alignments). The 60/70 kph reconstruction alignment and existing site conditions at the time of field investigations are shown on **Figures 2 - 21**.

2.0 PURPOSE OF THE REPORT AND SCOPE OF WORK

This report is being prepared to document the environmental features of the project limits and to provide an overview of potential impacts from the undertaking on the study area environment in consideration of Provincial and municipal planning policies.

The scope of work for this investigation was completed per the Ainley Group proposal dated January 20, 2020, and any subsequent updates based on project limit revisions identified by Greenview. The following aspects have been addressed through desktop review and field investigations as part of the NHS for the proposed development on the subject property:

- Vegetation and vegetation communities per the Ecological Land Classification (ELC).
- Fish and fish habitat review.
- Migratory breeding bird surveys.
- Eastern Whip-poor-will surveys.
- Species at risk (SAR) bat surveys.
- General SAR / SAR habitat review for other species noted during the background review.
- Significant features on the subject property and surrounding lands.
- Birds, wildlife, and herpetofaunal species and habitat.

It should be noted that for the purposes of the NHS, the study limits extended 50 m beyond the edge of the 90 kph alignment at those locations where the alignment is proposed to shift outside of the existing road alignment.

3.0 SOURCES OF EXISTING BASELINE INFORMATION

The following resources were identified and used to review background data on terrestrial and aquatic species within or in close proximity to the study area as part of the existing conditions and impact assessment.

- MNRF – Land Information Ontario (LIO) / Natural Heritage Make-a-Map review for natural heritage data.
- MNRF – Pembroke District Office – SAR, fisheries, and natural heritage information provided by MNRF Management Biologist on June 29, July 15, and September 8, 2020 (**Appendix A**).
- Natural Heritage Information Centre (NHIC) – SAR information provided by NHIC on July 13, 2020 (**Appendix A**).
- Ebird - review for bird species observation data.
- Ontario Breeding Bird Atlas (OBBA) – review for bird species observation data.
- Ontario Reptile and Amphibian Atlas (ORAA) – review for herpetofaunal species observation data.
- iNaturalist – review for wildlife and vegetation species observation data.
- Aerial Photographs – Review aerial photographs of the study area.

Details pertaining to the above information sources and available information were utilized to compile existing conditions information in the study area, and are summarized in the existing conditions section of the report.

The sections below summarize the above information sources and available information.

MNRF LIO / Natural Heritage Make-a-Map (MNRF, 2020)

Mapping available from LIO and Natural Heritage Make-a-map identified ten (10) watercourses, including Constant Creek, and unnamed tributaries of Constant Creek and Ferguson Lake, within the project limits. Two (2) evaluated wetlands Ferguson Lake Wetland (Provincially Significant), and McNulty's Lake Wetland (non-Provincially significant), were identified within the project limit boundaries, as well as several other unevaluated wetlands. No Areas of Natural or Scientific Interest (ANSIs) were identified within the subject property boundaries. Information provided by the NHIC also indicated terrestrial fauna species of concern present within the area, including Butternut (END), Pale-bellied Frost Lichen (END), Barn Swallow (THR), Eastern Meadowlark (THR), Eastern Wood-pewee (SC), Hill's Pondweed (SC), Snapping Turtle (SC), and a restricted species in proximity to the project limits.

MNRF Pembroke District Office – June 29, July 15, and September 8, 2020

The Pembroke District MNRF provided information on SAR, fisheries, and natural heritage features including mitigation measures and timing windows to protect SAR and fish habitat. Additional information pertaining to SAR is provided in **Section 6.6.1**, and correspondence from the MNRF is provided in **Appendix A**.

Natural Heritage Information Centre – July 13, 2020

The NHIC provided information on SAR occurrences within the project limits. Species identified by NHIC include; American Ginseng (END), Butternut (END), Blanding's Turtle (THR), Barn Swallow (THR), Eastern Meadowlark (THR), and Snapping Turtle (SC). Additional information pertaining to SAR is provided in **Section 6.6.1**, and correspondence from the MNRF is provided in **Appendix A**.

Ebird (Cornell Lab of Ornithology, 2020)

Ebird was reviewed to determine observations of bird species (including SAR) which have historically occurred in the study area.

Ontario Breeding Bird Atlas (Bird Studies Canada, 2020)

OBBA was reviewed to determine observations of bird species (including SAR) which have historically occurred in the study area.

Ontario Reptile and Amphibian Atlas (Ontario Nature, 2020)

ORAA was reviewed to determine observations of herpetofaunal species (including SAR) which have historically occurred in the study area.

iNaturalist (California Academy of Sciences and the National Geographic Society, 2020)

iNaturalist was reviewed to determine observations of wildlife and vegetation species (including SAR) which have historically occurred in the study area.

Aerial Photographs

Aerial photographs of the study area were reviewed to observe current conditions as well as changes in the study area to better understand the site ecology. The available imagery shows changes to the alignment of Ferguson Lake Road in the area of Campground Side Road between 2013 and 2016. No other notable changes are evident.

4.0 DATA COLLECTION METHODOLOGY

The following field survey protocols were completed to assess and document the presence of vegetative, wildlife, migratory and breeding birds, and herpetofaunal species within the study area. During the field survey, emphasis was placed on species at risk with the potential to occur within the study area. Field surveys for respective ecological features were completed in accordance with the following methodology:

Vegetation

Vegetation field surveys for species composition, and community mapping in accordance with the Ecological Land Classification system, were completed within the study area at those locations where the proposed alignment was interpreted to leave the existing road footprint (i.e. areas where vegetation removal will be required). These surveys were completed on June 9, 12, and 16 and July 8, 2020. Photographs of the identified vegetation communities are shown in **Appendix B**, and ELC field forms are included in **Appendix C**.

Migratory and Breeding Birds

Surveys of breeding birds were completed according to the protocol developed by the *Ontario Breeding Bird Atlas* (OBBA, 2001), including both point counts and incidental observations. The following is a general list of the guidelines that were followed:

- Point counts undertaken for five-minute intervals.
- Representative locations in different habitats were selected for point count surveys.
- Point count locations were established so as to prevent duplicate counts.
- Incidental site observations were also recorded.
- At least two site visits were completed between May 24 and July 10, with all initial visits completed by the third week in June.
 - Surveys were completed on June 5 and July 8, 2020.

In addition to the above, species specific (Bobolink / Eastern Meadowlark / Eastern Whip-poor-will) surveys were completed as outlined below.

Bobolink / Eastern Meadowlark Surveys (per MNRF protocol; MNRF, 2011)

- Establishment of point count stations (shown on **Figures 12 - 21**) at approximately 250 m intervals.
- Point count surveys at the identified stations were completed under field conditions with no precipitation, no or low wind speed, and good visibility. Weather conditions including wind, cloud cover, precipitation, and temperature were recorded during field events. GPS coordinates were recorded for each point count location.
- Surveys commenced at dawn and continued until no later than 9 am.
- Point count surveys included stopping at each point count location (within habitat suitable for Bobolink / Eastern Meadowlark) to undertake ten (10) minutes of observations (visual and auditory), with information recorded.
- Completion of three (3) sets of point count surveys with surveys taking place between the last week of May and the first week of July, and each separated by a week or more.
 - Surveys were completed on June 5 and 16, and July 8, 2020.

Eastern Whip-poor-will Surveys (per MNRF protocol; MNRF, 2013)

- Establishment of point count stations (shown on **Figures 12 - 21**) at 300 m to 500 m intervals.
- Surveys commenced a minimum of 30 minutes after sunset during the appropriate phase of the lunar cycle (50% or more of the visible moon face illuminated).
- Point count surveys included stopping at each point count location to undertake six (6) minutes of passive listening, with information recorded.
- Completion of four (4) sets of point count surveys with surveys taking place in June and July (two in June, two in July).
 - Surveys were completed on June 4 and 8, and July 7 and 8, 2020.

Migratory breeding bird, and species specific surveys were completed during appropriate weather conditions, and time of day. Point observation counts were completed per the dates described above. Incidental observation recordings were completed during all other field visits.

Wildlife

Observations of wildlife were recorded during field visits to assess vegetation, migratory and breeding birds, and herpetofaunal surveys completed within the study area during June and July 2020. Any wildlife observations were noted along with locational information of the sighting. Specific attention was given to the evaluation for the presence of SAR during the field visits, including SAR turtles, birds, and vegetation.

Further information pertaining to wildlife surveys completed at the site is provided below. During the survey, reference for specific habitat requirements for each species was per the *MNR - Significant Wildlife Habitat Technical Guide* (2000).

Turtles

Field reviews and site reconnaissance was conducted on June 4 and 8, 2020, to assess for SAR turtles, their habitat and nesting potential within the study area.

Bats

The potential for presence of bat species / specialized habitat (maternity roost colonies) was assessed through a three-step process, with steps completed per *Bats and Bat Habitats: Guidelines for Wind Power Projects* (MNR, 2011). Details regarding bat surveys methodology are outlined in **Section 6.6.5** but generally included a review of ELC communities in the study area to determine where appropriate bat habitat may be. In all suitable ELC units where the road alignment was anticipated to leave the platform, randomized plots were completed to determine snag density per ha. In ELC communities which met the minimum snag / cavity density (≥ 10 snags / ha) further review was completed whereby the location of suitable snag /

cavity trees was compared to the proposed development footprint to determine if the proposed development may have an impact on these suitable location(s)..

Surface Water Features

Field surveys to investigate the presence of fish and fish habitat were completed by Ainley Group on June 4, 8, and 17, and July 8, 2020. The surveys were conducted to establish the locations exhibiting fish habitat, and included a review of fish and fish habitat within the identified study area.

The detailed site surveys included the identification of:

- Fish and fish habitat characteristics;
- Watercourse morphology, including type of watercourse, length, widths, depths and associated wetlands;
- Subsections of the watercourse, including runs, pools, riffles;
- Water quality features including temperature, conductivity, dissolved oxygen, resistivity, salinity and pH;
- Habitat features, including woody debris, undercut banks, boulder clusters, organic debris, and aquatic macrophytes;
- Terrestrial groundwater seepage areas, watercourse substrate, bank stability, riparian and aquatic vegetation;
- Critical habitat areas (spawning, nursery, rearing, migratory and food supply areas);
- Physical barriers; and,
- Potential habitat compensation or enhancement opportunities.

5.0 PLANNING POLICIES AND FRAMEWORK

The following planning policies and framework were reviewed and applied to establish the suitability of the proposed development in consideration of environmental impacts to the subject land and adjacent properties.

5.1 Provincial Planning Policy

The Provincial Policy Statement (PPS) (MMAH, 2020) outlines policies related to natural heritage features (Section 2.1) and water resources (Section 2.2). The *Planning Act* requires that planning decisions shall be consistent with the PPS.

According to the PPS, development and site alteration shall not be permitted in:

- Habitat of endangered or threatened species, except in accordance with provincial and federal requirements,

- Significant wetlands (in coastal areas or in Ecoregions 5E, 6E and 7E), and
- Significant coastal wetlands.

Similarly, unless it has been demonstrated that there will be no negative impacts on the natural features or their ecological functions, development and site alteration shall not be permitted within:

- Significant wetlands in the Canadian Shield north of Ecoregions 5E, 6E, and 7E,
- Significant woodlands (Ecoregions 6E and 7E, excluding islands in Lake Huron and the St. Marys River),
- Significant valley lands (Ecoregions 6E and 7E, excluding islands in Lake Huron and the St. Marys River),
- Significant wildlife habitat,
- Significant Areas of Natural and Scientific Interest (ANSI), and
- Coastal wetlands in Ecoregions 5E, 6E, and 7E.

In addition, development and site alteration is not permissible on lands adjacent to the natural features and areas identified above unless the ecological function of the adjacent lands has been evaluated and it has been demonstrated that no negative impacts on natural features and functions will occur. Development and site alternation shall not be permitted in fish habitat except in accordance with federal and Ontario-specific requirements.

5.2 Ontario Endangered Species Act

In June 2007, Ontario enacted a provincial Endangered Species Act to protect “species at risk” (SAR) in Ontario. A “species at risk” is defined as any naturally-occurring plant or animal in danger of extinction or of disappearing from the province. Species are added to the Species at Risk in Ontario (SARO) List once they are evaluated and classified as “at risk”. Protection under the Act means this species is protected from being killed, harmed, harassed, or captured. Damaging or destroying the habitat of endangered or threatened species is also prohibited under the Act. Additionally, in order to conform to the PPS no development or site alteration is permitted in the significant habitat of a species of conservation concern (MMAH, 2020).

5.3 Modernization of Approvals

On July 1, 2013, regulatory changes for modernizing approvals for the Endangered Species Act (Ontario Regulation 176/13) came into effect. The regulation applies to all species on the SARO list as of January 24, 2014. The requirements of the regulation include common elements of minimizing adverse effects, mitigation plans, monitoring, and reporting and recording. The regulations have streamlined the approvals process by organizing control of activities into four categories; Elimination, Rules in Regulation, Registration and Review and Approval.

The regulations allow common, low risk and frequency activities to be governed by a standard set of rules instead of requiring a permit. Activities that fall under the eligibility conditions are permitted to proceed without the acquisition of a permit or licence while abiding by the

regulations. Activities that do not meet the eligibility criteria and may have adverse effects on SAR require approval. The current governing authority for provincial SAR is the Ministry of Environment, Conservation, and Parks (MECP).

5.4 Ministry of Natural Resources and Forestry

As the study area is not located within the boundaries of a Conservation Authority, development within hazard areas (i.e. wetlands, watercourses, unstable slopes, etc.) remain the jurisdiction of the MNRF.

As such, MNRF is to provide technical support to the Ministry of Municipal Affairs and Housing on any matters related to the features identified within **Section 5.1**.

6.0 EXISTING CONDITIONS

Existing conditions reviews of the subject property were completed on June 4, 8, 9, 12, 16, and 17, and July 8, 2020. In summary, the project limits was noted to consist of a mix of deciduous, mixed, and coniferous forest, meadow, agricultural, and swamp communities. In addition to Constant Creek, eight (8) locations (culvert or adjacent to roadway) are interpreted to support fish and fish habitat. Background data sources have identified an escarpment feature (Ferguson Lake Escarpment) within the study limits; however, this feature is not identified as a significant natural heritage feature (i.e. ANSI). Adjacent properties include a mix of residential, agricultural, and vacant land uses. The existing conditions of the subject property are shown on **Figures 2 - 11**, in the photographic log (**Appendix B**), and are detailed in the following sections.

It should be noted that access to any lands within the study area was completed under the permission of Greenview.

6.1 Land Use, Topography, and Drainage

The predominant land use within the study limits is forested lands; however, areas of agricultural and residential land use were also observed.

The topography of the study limits is generally steeply sloped to the west and south (escarpment feature) while lands to the north and east, and in the vicinity of Constant Creek and Ferguson Lake, are generally flat with minimal topographic variation. Elevations within the study limits range from approximately 250 metres above sea level (masl; along escarpment feature) to approximately 185 masl.

Drainage on the subject property is generally to the north and east through sheet flow, but also includes flow through the identified watercourses, which eventually outlet to Constant Creek or Ferguson Lake.

6.2 Surficial and Bedrock Geology

The subject property is identified as within the Algonquin Highlands physiographic region (Chapman and Putnam, 1984). The landform features of the study area consist of a relatively

hilly landscape with agricultural fields, forested areas, watercourses, and residential features within the project limits.

Bedrock geology of the area is described as a mixture of clastic metasedimentary rocks (i.e. limestone, chert), and carbonate metasedimentary rocks (i.e. marble, skarn) (Lumbers, 1976).

Surficial deposits in the study area are described to be a mixture of glaciofluvial deposits (i.e. river deposits and delta topset facies), ice contact stratified deposits (i.e. sand and gravel, minor silt, clay and till), precambrian bedrock, and organic deposits (i.e. peat, muck, marl) (Ontario Geological Survey, 2010).

6.3 Vegetation and Vegetation Communities

The study area is located in the 5E Georgian Bay Ecozone within the Ontario Shield Ecozone, which is typically dominated by deciduous, coniferous, mixed, and sparse forest (MNR, 2009). Field surveys were completed by Ainley Group on June 9, 12, and 16 and July 8, 2020 to document vegetative species and communities. The review was limited to those locations within the project limits where the proposed alignment will leave the existing road footprint (i.e. areas where vegetation removal will be required). Vegetation within the subject property was identified and categorized in accordance with the Ecological Land Classification (ELC) for Southern Ontario (Lee et. al., 1998), with vegetative communities assigned ELC codes consistent with recently amended ELC classification tables (2013). Field investigation sheets for the ELC mapping are provided in **Appendix C**.

Vegetation communities within the assessed areas can generally be broken down into three (3) groups; treed, wetland, and open/disturbed.

Within the open group are the communities;

- Mixed Meadow (MEMM3)
- Transportation (CVI_1)
- Perennial Cover Crop (OAGM2).

Within the treed group are the communities;

- Dry-Fresh Poplar Deciduous Forest (FODM3-1)
- Dry-Fresh Beech Deciduous Forest (FODM4-1)
- Dry-Fresh Sugar Maple-Beech Deciduous Forest (FODM5-2)
- Dry-Fresh Sugar Maple-Basswood Deciduous Forest (FODM5-6)
- Fresh-Moist Poplar Deciduous Forest (FODM8-1)
- Dry-Fresh White Pine-Sugar Maple Mixed Forest (FOMM2-2)
- Dry-Fresh Sugar Maple-Hemlock Mixed Forest (FOMM5-2)
- Fresh-Moist White Spruce-Hardwood Mixed Forest (FOMM10-2).

Within the wetland group are the following communities;

- White Cedar-Conifer Mineral Coniferous Swamp (SWCM1-2)
- White Cedar-Hardwood Mineral Mixed Swamp (SWMM1-1)
- Speckled Alder Mineral Deciduous Thicket Swamp (SWTM1-1)
- Red-osier Dogwood Mineral Deciduous Thicket Swamp (SWTM2-1).

Two (2) endangered SAR vegetation, Butternut (*Juglans cinerea*) and American Ginseng (*Panax quinquefolius*), were identified by MNR / NHIC as having the potential to exist within the study limits. Of these species, only Butternut was observed during the field investigations in 2020. The SAR vegetation identified by MNR / NHIC, as well as those observed within the study limits is discussed in detail within **Section 6.6**.

The following sections provide a detailed summary of the vegetation and vegetative communities observed within areas where the proposed alignment will leave the existing road footprint during the field investigations in 2020. A complete listing of all vegetative species found in each community listed below is included in the species list (**Appendix C**). An aerial view of the subject property and respective vegetation communities is shown in **Figures 2 - 11**. A photographic log showing the vegetative composition of each community is included in **Appendix B**.

6.3.1 Mixed Meadow (MEMM3)

This community was observed in blocks 1, 2, and 3 in the southern portion of the study limits. It is characterized by mixed herbaceous and small woody plant species, with minimal tree cover. This community is dominated by Black Raspberry (*Rubus occidentalis*) and Scouring Rush (*Equisetum hyemale*), with other present species including Tufted Vetch (*Vicia cracca*), grasses, and Oxeye Daisy (*Leucanthemum vulgare*).

6.3.2 Transportation (CVI 1)

This community is represented by Ferguson Lake Road and the immediate right-of-way and was observed throughout the study limits. The community is characterized by a mix of herbaceous and woody species typical of disturbed areas. Vegetation in this community was observed to include species such as Common Vipers Bugloss (*Echium vulgare*), Large-leaved Aster (*Eurybia macrophylla*), Poison Ivy (*Toxicodendron radicans*), Wild Parsnip (*Pastinaca sativa*), and Ground Juniper (*Juniperus horizontalis*).

6.3.3 Perennial Cover Crop (OAGM2)

This community was observed in blocks 13, 16, and 17, and is characterized by graminoid and forb species typical of an agricultural “hay” field. Vegetation in this community was observed to include species such as Red Clover (*Trifolium pretense*), Smooth Brome (*Bromus inermis*), Tall Buttercup (*Ranunculus acris*), Orchard Grass (*Dactylis glomerata*), and Wild Carrot (*Daucus*

carota).

6.3.4 Dry-Fresh Poplar Deciduous Forest (FODM3-1)

This community was observed in block 8, in the central portion of the study limits, and is characterized by deciduous trees with a canopy cover of 60% or greater. Vegetation in this community is dominated by Large-toothed Aspen (*Populus grandidentata*), American Beech (*Fagus grandifolia*), and Sugar Maple (*Acer saccharum*). Other less dominant species observed include Ironwood (*Ostrya virginiana*), Moose Maple (*Acer pensylvanicum*), and White Rattlesnakeroot (*Nabalus albus*).

6.3.5 Dry-Fresh Beech Deciduous Forest (FODM4-1)

This community was observed in blocks 1, 6, and 9, within the central and southern parts of the study limits, and is characterized by deciduous tree species with a canopy cover of 60% or greater. Vegetation in this community is dominated by American Beech, Sugar Maple, and Red Oak (*Quercus rubra*). Other less dominant species observed include Ironwood, White Birch (*Betula papyrifera*), Moose Maple, and White Ash (*Fraxinus americana*).

6.3.6 Dry-Fresh Sugar Maple-Beech Deciduous Forest (FODM5-2)

This community was observed in block 5, within the central part of the study limits, and is characterized by deciduous tree species with a canopy cover of 60% or greater. Vegetation in this community is dominated by Sugar Maple, American Beech, and Ironwood. Other less dominant species observed include White Birch, American Basswood (*Tilia americana*), Maidenhair Fern (*Adiantum pedatum*), and Canada Mayflower (*Maianthemum canadense*).

6.3.7 Dry-Fresh Sugar Maple-Basswood Deciduous Forest (FODM5-6)

This community was observed in block 17, at the northern end of the study limits, and is characterized by deciduous tree species with a canopy cover of 60% or greater. Vegetation in this community is dominated by Sugar Maple, American Basswood, and Ironwood. Other less dominant species observed include Red Trillium (*Trillium erectum*), Nodding Trillium (*Trillium cernuum*), Staghorn Sumac (*Rhus typhina*), and Smooth Serviceberry (*Amelanchier laevis*).

6.3.8 Fresh-Moist Poplar Deciduous Forest (FODM8-1)

This community was observed in blocks 1, 2, and 3, at the southern end of the study limits, and is characterized by deciduous tree species with a canopy cover of 60% or greater. Vegetation in this community is dominated by Trembling Aspen (*Populus tremuloides*), Red Ash (*Fraxinus pensylvanica*), Black Cherry (*Prunus serotina*), and Scouring Rush. Other less dominant species observed include Prickly Gooseberry (*Ribes cynosbati*), Gray Dogwood (*Cornus racemosa*), Virginia Creeper (*Parthenocissus quinquefolia*), and Chokecherry (*Prunus virginiana*).

6.3.9 Dry-Fresh White Pine-Sugar Maple Mixed Forest (FOMM2-2)

This community was observed in block 5, in the central portion of the study limits, and is characterized by mixed (deciduous and coniferous) tree species with a canopy cover of 60% or greater. Vegetation in this community is dominated by Sugar Maple, White Pine (*Pinus strobus*), Red Pine (*Pinus resinosa*), and Ironwood. Other less dominant species observed include Eastern Hemlock (*Tsuga canadensis*), Red Oak, Fly Honeysuckle (*Lonicera canadensis*), and Canada Mayflower.

6.3.10 Dry-Fresh Sugar Maple-Hemlock Mixed Forest (FOMM3-3)

This community was observed in blocks 10 and 15, in the central and northern portions of the study limits, and is characterized by mixed (deciduous and coniferous) tree species with a canopy cover of 60% or greater. Vegetation in this community is dominated by Sugar Maple, Eastern Hemlock, and White Cedar (*Thuja occidentalis*). Other less dominant species observed include Ironwood, Blue Cohosh (*Caulophyllum thalictroides*), White Ash, Maidenhair Fern, and Moose Maple.

6.3.11 Dry-Fresh Poplar Mixed Forest (FOMM5-2)

This community was observed in blocks 4 and 5, in the southern portion of the study limits, and is characterized by mixed (deciduous and coniferous) tree species with a canopy cover of 60% or greater. Vegetation in this community is dominated by Trembling Aspen, Red Pine, and White Birch. Other less dominant species observed include American Basswood, Balsam Fir (*Abies balsamea*), Zigzag Goldenrod (*Solidago flexicaulis*), Scouring Rush, and Red Clover.

6.3.12 Fresh-Moist White Spruce-Hardwood Mixed Forest (FOMM10-2)

This community was observed in block 14, in the northern half of the study limits, and is characterized by coniferous trees with a canopy cover of 60% or greater. Vegetation in this community is dominated by White Spruce (*Picea glauca*) and Trembling Aspen. Other less dominant species observed include Red Ash, Large-leaved Aster, Black Raspberry, Balsam Poplar (*Populus balsamea*), and Prickly Ash (*Zanthoxylum americanum*).

6.3.13 White Cedar-Conifer Mineral Coniferous Swamp (SWCM1-2)

This community was observed in block 4, in the southern half of the study limits, and is a wetland feature characterized by coniferous trees with a canopy cover of 25% or greater. Vegetation in this community is dominated by White Cedar and Yellow Birch (*Betula alleghaniensis*). Other less dominant species observed include Balsam Fir, Balsam Poplar, Scouring Rush, Fowl Mannagrass (*Glyceria striata* var. *striata*), and Broad-leaved Cattails (*Typha latifolia*).

6.3.14 White Cedar-Hardwood Mineral Mixed Swamp (SWMM1-1)

This community was observed in blocks 7 and 15, in the central and northern parts of the study limits, and is a wetland feature characterized by mixed (deciduous and coniferous) tree species with a canopy cover of 25% or greater. Vegetation in this community is dominated by White Cedar, Eastern Hemlock, Black Ash (*Fraxinus nigra*), and Red Ash. Other less dominant species observed include Yellow Birch, White Birch, Broad-leaved Cattail, Spotted Jewelweed (*Impatiens capensis*), and Sensitive Fern (*Onoclea sensibilis*).

6.3.15 Speckled Alder Mineral Deciduous Thicket Swamp (SWTM1-1)

This community was observed in block 14, in the northern part of the study limits, and is a wetland feature characterized by deciduous shrub species with a canopy cover of 25% or greater. Vegetation in this community is dominated by Speckled Alder (*Alnus incana*), with other present species including Red Ash, Sensitive Fern, Cinnamon Fern (*Osmundastrum cinnamomeum*), and Reed Canarygrass (*Phalaris arundinacea*).

6.3.16 Red-osier Dogwood Mineral Deciduous Thicket Swamp (SWTM2-1)

This community was observed in blocks 11 and 13, in the northern half of the study limits, and is a wetland feature characterized by deciduous shrub species with a canopy cover of 25% or greater. Vegetation in this community is dominated by Red-osier Dogwood (*Cornus sericea*), Speckled Alder, and Peach-leaved Willow (*Salix amygdaloides*). Other less dominant species observed include Silver Maple (*Acer Saccharinum*), White Cedar, Riverbank Grape (*Vitis riparia*), Sensitive Fern, and Marsh Horsetail (*Equisetum palustre*).

6.4 Surface Water Features, Fish and Fish Habitat, and Aquatic SAR

Mapping available from LIO and Natural Heritage Make-a-map identified ten (10) watercourses, including Constant Creek, and unnamed tributaries of Constant Creek and Ferguson Lake, within the project limits. During a review of the study area, Ainley Group identified nine (9) of these locations as fish habitat; however, it is understood that none of the proposed work will require modifications at the locations where Constant Creek crosses Ferguson Lake Road, so these locations were not included for detailed fisheries assessment. **Sections 6.4.1 to 6.4.8** provide a description of the locations that were identified to exhibit characteristics of fish and fish habitat.

Further to the information below, a review of available DFO and MNRF information was completed by Ainley Group in an effort to determine the potential for aquatic SAR within the project limits. Upon completion of the review, no aquatic SAR fish / mussel species were identified.

6.4.1 Culvert CV-00454 (Stn 3+590)

This culvert conveys an unnamed tributary of Ferguson Lake east under Ferguson Lake Road. During the June 2020 field visit, the wetted channel upstream (much of which is within a White Cedar swamp) consisted of run and flat features. Run features had an average width and depth of 1.17 m and 0.08 m, respectively. Flat features had an average width and depth of 20 m (wetland area) and 0.3 m, respectively. Substrate consisted of gravel and sand within the run features, and muck and detritus in the flat features. The upstream portions of the water feature are bounded by a mixed forest.

Downstream of the culvert, the wetted channel consisted of pool, riffle, and flat features. Pool features had an average width and depth of 0.55 m and 0.28 m, respectively. Riffle features had an average width and depth of 0.5 m and 0.09 m, respectively. Flat features had an average width and depth of 0.55 m, and 0.28 m, respectively. Substrate consisted of sand and detritus in the pool features, detritus in the riffle features, and muck and detritus in the flats features. The downstream channel flows through a White Cedar swamp.

This location is interpreted to provide permanent, direct fish habitat. Correspondence from the MNRF (**Appendix A**) indicates that this location represents warm/cool water fish habitat, with an associated no in-water operational timing window from March 15 to July 15, in any calendar year.

6.4.2 Culvert CV-00455 (Stn 4+000)

This culvert contributes to (i.e. is within 30 m of) roadside and wetland drainage along the west side of Ferguson Lake Road. During the June 2020 field visit, the wetted channel consisted of run and riffle features, much of which is within a steeply graded roadside ditch. Run features had an average width and depth of 0.62 m and 0.04 m, respectively. Riffle features had an average width and depth of 0.6 m and 0.04 m, respectively. Substrate consisted of gravel and sand within the run features, and boulder, cobble, and gravel in the riffle features. The watercourse is bounded by a deciduous forest, and flows from an upstream White Cedar swamp.

The culvert at this location is not anticipated to directly support fish or fish habitat; however is anticipated to indirectly contribute to fish habitat within the adjacent watercourse. Correspondence from the MNRF (**Appendix A**) indicates that this location represents warm/cool water fish habitat, with an associated no in-water operational timing window from March 15 to July 15, in any calendar year.

6.4.3 Culvert CV-00456 (Stn 4+625)

This culvert conveys an unnamed tributary of Ferguson Lake east under Ferguson Lake Road. During the June 2020 field visit, the wetted channel upstream consisted of run, riffle, and pool features. Run features had an average width and depth of 3.0 m and 0.25 m, respectively. Riffle features had an average width and depth of 0.76 m and 0.16 m, respectively. Pool features had an average width and depth of 1.1 m and 0.35 m, respectively. Substrate

consisted of boulder, cobble, and gravel through all features upstream of the culvert. The upstream portions of the water feature are bounded by a deciduous forest.

Downstream of the culvert, the wetted channel consisted of pool and riffle features. Pool features had an average width and depth of 1.3 m and 0.3 m, respectively. Riffle features had an average width and depth of 0.76 m and 0.16 m, respectively. Substrate consisted of boulder, cobble, and gravel through all features downstream of the culvert. The downstream portions of the water feature are bounded by a deciduous forest.

Numerous barriers to migration (i.e. waterfalls) were observed downstream of the culvert.

This location is interpreted to provide permanent, direct fish habitat. Correspondence from the MNRF (**Appendix A**) indicates that this location represents mixed cold water fish habitat, with an associated no in-water operational timing window from October 1 to July 15, in any calendar year.

6.4.4 Culvert CV-00460 (Stn 5+515)

This culvert conveys an unnamed tributary of Constant Creek east under Ferguson Lake Road. During the June 2020 field visit, the culvert and adjacent environment was observed to be dry. Flow at this location is interpreted to be ephemeral, and is directed through riparian habitat (i.e. ferns, grasses, sedges) to the adjacent Constant Creek, which is located approximately 15 m away.

This location is interpreted to provide ephemeral, in-direct fish habitat. Correspondence from the MNRF (**Appendix A**) indicates that this location represents warm/cool water fish habitat, with an associated no in-water operational timing window from March 15 to July 15, in any calendar year.

6.4.5 Culvert CV-00461 (Stn 5+718)

This culvert conveys roadside drainage towards Constant Creek east under Ferguson Lake Road. During the June 2020 field visit, the culvert and upstream ditch was observed to be dry. A pool feature was observed approximately 6 m downstream of the culvert. The pool had a wetted depth of 0.15 m and width of 2.5 m. Substrate within the channel consisted of muck and detritus. Flow at this location is interpreted to be ephemeral, with the channel directed through riparian habitat, and ultimately into Constant Creek.

This location is interpreted to provide ephemeral, in-direct fish habitat. Correspondence from the MNRF (**Appendix A**) indicates that this location represents warm/cool water fish habitat, with an associated no in-water operational timing window from March 15 to July 15, in any calendar year.

6.4.6 Culvert CV-00463 (Stn 6+020)

These culverts (twin CSPs) convey an unnamed tributary of Constant Creek west under Ferguson Lake Road. During the June 2020 field visit, the wetted channel upstream consisted of

run and flats features. Run features had an average width and depth of 1.0 m and 0.25 m, respectively. Flats features had an average width and depth of 3.0 m and 0.28 m, respectively. Substrate consisted of sand within run features, and detritus and muck within flats features. The upstream portions of the water feature flow through a wetland feature, with a beaver pond observed approximately 100 m upstream.

Downstream of the culvert, the wetted channel consisted of pool, run and flats features. Pool features had an average width and depth of 5.5 m and 0.4 m, respectively. Run features had an average width and depth of 1.5 m and 0.4 m, respectively. Flats features had an average width and depth of 5.0 m and 0.3 m, respectively. Substrate consisted of detritus, muck, and sand within the pool features, sand within run features, and detritus and muck within flats features. The downstream portions of the water feature flow through a thicket swamp and ultimately into Constant Creek.

This location is interpreted to provide permanent, direct fish habitat. Correspondence from the MNRF (**Appendix A**) indicates that this location represents warm/cool water fish habitat, with an associated no in-water operational timing window from March 15 to July 15, in any calendar year.

6.4.7 Watercourse Adjacent Ferguson Lake Road (Stn 6+875)

Although not associated with a culvert under Ferguson Lake Road, an unnamed tributary of Constant Creek flows parallel with the road (within 10 m to 12 m) in the area of Stn 6+875. During the June 2020 field visit, the wetted channel consisted of pool and flats features. Pool features had an average width and depth of 2.5 m and 0.1 m, respectively. Flats features had an average width and depth of 2.0 m and 0.2 m, respectively. Substrate consisted of sand, muck, and detritus within the watercourse features. The surveyed portions of the water feature flow through a wetland feature (alder swamp), and outlet into Constant Creek.

This location is interpreted to provide permanent, direct fish habitat. Correspondence from the MNRF (**Appendix A**) indicates that this location represents warm/cool water fish habitat, with an associated no in-water operational timing window from March 15 to July 15, in any calendar year.

6.4.8 Culvert CV-00468 (Stn 7+865)

This culvert conveys an unnamed tributary of Constant Creek east under Ferguson Lake Road. During the June 2020 field visit, the wetted channel upstream consisted of riffle, and pool features. Riffle features had an average width and depth of 0.6 m and 0.06 m, respectively. Pool features had an average width and depth of 1.0 m and 0.16 m, respectively. Substrate consisted of boulder, cobble, and gravel through all features upstream of the culvert. The upstream portions of the water feature are bounded by a deciduous forest.

Downstream of the culvert, the wetted channel consisted of pool and riffle features. Pool features had an average width and depth of 0.65 m and 0.18 m, respectively. Riffle features had an average width and depth of 0.5 m and 0.05 m, respectively. Substrate consisted of

cobble, gravel, and sand within the pool features, and boulders, cobble, and gravel within the riffle features downstream of the culvert. The downstream portions of the water feature are bounded by a perennial cover crop field.

The watercourse at this location was observed to be a localized system that transitions to underground flow approximately 25 m downstream of the culvert. The culvert outlet was observed to be perched by approximately 0.07 m.

This location is interpreted to provide permanent, direct fish habitat. Correspondence from the MNRF (**Appendix A**) indicates that this location represents mixed cold water fish habitat, with an associated no in-water operational timing window from March 15 to July 15, in any calendar year.

Measures to limit impacts to the fish and fish habitat identified above are discussed in **Section 8.0**.

6.5 Birds, Wildlife, and Herpetofaunal Species and Habitat

The following sections detail the species formerly reported to occur within the study area, as well as those observed during field investigations in June and July, 2020.

6.5.1 Bird Species

Point count and incidental bird species observations were documented within the study area during the field investigations completed on June 4, 5, 8, 9, 12, and 16, and July 7 and 8, 2020.

A total of forty-five (45) bird species were observed (visually or audibly) within the study area. A summary of the species list (common names) is included below:

American Crow	Chipping Sparrow
American Goldfinch	Common Grackle
American Robin	Common Yellowthroat
Baltimore Oriole	Eastern Bluebird
Barn Swallow	Eastern Meadowlark
Black and White Warbler	Eastern Phoebe
Black-capped Chickadee	Eastern Whip-poor-will
Black-throated Blue Warbler	Eastern Wood Pewee
Black-throated Green Warbler	European Starling
Blue Jay	Great Blue Heron
Brown Thrasher	Great Crested Flycatcher
Canada Goose	Hairy Woodpecker
Chestnut-sided Warbler	Hermit Thrush

Mallard	Swamp Sparrow
Mourning Dove	Veery
Northern Flicker	Warbling Vireo
Ovenbird	White-breasted Nuthatch
Pied-billed Grebe	White-throated Sparrow
Red-eyed Vireo	Winter Wren
Red-winged Blackbird	Yellow-bellied Sapsucker
Rose-breasted Grosbeak	Yellow-rumped Warbler
Sandhill Crane	Yellow Warbler
Song Sparrow	

The following provides a summary, including provincial designation, of any SAR birds (listed above) which were observed on or adjacent to the project limits.

- Eastern Meadowlark (*Sturnella magna*) – Threatened
- Eastern Whip-poor-will (*Antrostomus vociferous*) – Threatened
- Barn Swallow (*Hirundo rustica*) - Threatened
- Eastern Wood Pewee (*Contopus virens*) - Special Concern

Additional information to SAR birds with the potential to occur within the study area is provided in **Section 6.6**.

6.5.2 Wildlife / Herpetofaunal Species

Wildlife species within the study area were documented via direct observation and interpretation of sign (i.e. tracks, scat, vocalizations, etc.). Observations of wildlife species during the environmental investigations by Ainley Group in June and July 2020 included; White-tailed Deer (*Odocoileus virginianus*), Red Squirrel (*Tamiasciurus hudsonicus*), Eastern Chipmunk (*Tamias striatus*), Black Squirrel (*Sciurus carolinensis*), and Coyote (*Canis latrans*) scat. In addition, the subject property and adjacent lands are anticipated to provide habitat for other typical mammals of southern Ontario including Snowshoe Hare (*Lepus americanus*), Beaver (*Castor canadensis*), Muskrat (*Ondatra zibethicus*), Black Bear (*Ursus americanus*) and other small to medium sized mammals.

Herpetofaunal species within the study area were documented when observed according to the field survey protocols specified within **Section 4.0**. Incidental observations that occurred during the field survey were documented. Herpetofaunal species observed included Snapping Turtle (*Chelydra serpentina*), Green Frog (*Lithobates clamitans*), and American Bullfrog (*Lithobates catesbeianus*). Given the presence of watercourse and wetland features (including Ferguson Lake PSW), additional herpetofaunal species are anticipated to be present.

Additional information pertaining to SAR wildlife reported during previous investigations and during the field surveys in 2020 is provided in **Section 6.6**.

6.6 Significant Natural Heritage Functions / Features

As part of the EIS, and in accordance with the PPS (MMHA, 2020), natural heritage functions and features were reviewed for the subject property including the following:

- Significant habitat of endangered and threatened species;
- Significant wetlands;
- Significant coastal wetlands;
- Significant woodlands;
- Significant valleylands;
- Significant wildlife habitat; and,
- Significant areas of natural and scientific interest.

6.6.1 Species at Risk

To evaluate potential for species at risk on the subject property a site assessment for SAR was completed, including request for background information from the MECP and NHIC. Based on information provided by agencies and / or background data records, the following species have been documented to occur either within the project limits or nearby.

- Little Brown Bat (*Myotis lucifugus*) - Endangered
- Northern Long-eared Myotis (*Myotis septentrionalis*) - Endangered
- Tri-coloured Bat (*Perimyotis subflavus*) - Endangered
- Eastern Small-footed Myotis (*Myotis leibii*) - Endangered
- American Ginseng (*Panax quinquefolius*) - Endangered
- Butternut (*Juglans cinerea*) – Endangered
- Pale-bellied Frost Lichen (*Physconia subpallida*) - Endangered
- Bobolink (*Dolichonyx oryzivorus*) – Threatened
- Blanding's Turtle (*Emydoidea blandingii*) - Threatened
- Barn Swallow (*Hirundo rustica*) – Threatened
- Eastern Meadowlark (*Sturnella magna*) – Threatened
- Eastern Whip-poor-will (*Antrostomus vociferous*) - Threatened
- Eastern Wood Pewee (*Contopus virens*) - Special Concern
- Snapping Turtle (*Chelydra serpentina*) – Special Concern

- Northern Map Turtle (*Graptemys geographica*) – Special Concern
- Wood Thrush (*Hylocichla mustelina*) – Special Concern
- Golden-winged Warbler (*Vermivora chrysoptera*) – Special Concern
- Canada Warbler (*Cardellina canadensis*) – Special Concern
- Evening Grosbeak (*Coccothraustes vespertinus*) – Special Concern
- Hill's Pondweed (*Potamogeton hillii*) – Special Concern
- Bald Eagle (*Haliaeetus leucocephalus*) – Special Concern

During the field visits completed by Ainley Group in 2020, five (5) SAR, were observed on or adjacent to the study limits as follows:

- Butternut
- Barn Swallow
- Eastern Meadowlark
- Eastern Whip-poor-will
- Eastern Wood-pewee

The location of SAR observations (both those by Ainley Group and those identified in background data sources) has been kept confidential due to the sensitive nature of the data.

As noted in **Section 6.4**, no aquatic SAR (i.e. fishes and mussels) have been identified within the background data available for the project limits.

As part of the evaluation, habitat requirements of the SAR identified with the potential to exist were compared against the habitat types present and species observations within the study limits. The results of this assessment are provided in **Tables 1 and 2**.

Given the potential for bats in the general project area, the presence of bat species / specialized habitat (maternity roost colonies) was assessed per *Bats and Bat Habitats: Guidelines for Wind Power Projects* (MNR, 2011).

Step 1 included a review of the ELC vegetation communities found within the project limits, and resulted in the identification of forest types suitable for bat maternity colonies (identified as deciduous and mixed forest and swamp within the criteria schedule). These included vegetation communities of Dry-Fresh Beech Deciduous Forest (FODM4-1), Fresh-Moist Poplar Deciduous Forest (FODM8-1), White Cedar-Conifer Mineral Coniferous Swamp (SWCM1-2), Dry-Fresh Poplar Mixed Forest (FODM5-2), Dry-Fresh Sugar Maple – Beech Deciduous Forest (FODM5-2), Dry-Fresh White Pine – Sugar Maple Mixed Forest (FODM2-2), White Cedar – Hardwood Mineral Mixed Swamp (SWMM1-1), Dry-Fresh Poplar Deciduous Forest (FODM3-1), Dry-Fresh Sugar Maple – Hemlock Mixed Forest (FODM3-3), Fresh-Moist White Spruce – Hardwood Mixed Forest (FODM10-2), and Dry-Fresh Sugar Maple – Basswood Deciduous Forest (FODM5-6) (**Figures 2 - 11**).

Step 2 included a snag density assessment. This assessment was used to determine the density of snags with a diameter at breast height (DBH) greater than 0.25 m using a random plot analysis. The results of this assessment indicated a snag density (trees >0.25 m DBH) greater than 10 snags/hectare (i.e. meeting the minimum snag density required for maternity colony use) in the following ELC communities:

- Dry-Fresh Sugar Maple – Beech Deciduous Forest (FODM5-2)
- White Cedar – Hardwood Mineral Mixed Swamp (SWMM1-1)
- Dry-Fresh Sugar Maple – Hemlock Mixed Forest (FOMM3-3)
- Fresh-Moist White Spruce – Hardwood Mixed Forest (FOMM10-2)

It should be noted that the snag density assessment was only completed within portions of the project limits where the proposed alignment is interpreted to leave the existing roadway platform.

In addition to the potential for use by maternity colonies, forest and swamp communities within the project limits may also be used by day roosting bats. Day roost locations are considered to change frequently (on a daily basis, or every several days) suggesting that bats may use a number of different trees during the summer period. Impacts to this species could occur should they be roosting during vegetation removal. Overall impacts to the habitat of SAR bats is not anticipated, as vegetation removal will generally be limited in comparison to the extensive tracts of forest which existing within the landscape. It is anticipated that bats will seek out habitat within these adjacent lands. Regardless, SAR bats are anticipated to have the potential to be present in woody vegetation within the project limits from April 1 to September 30. As such, it is recommended that any vegetation clearing be completed outside of this timing window.

Vegetation clearing is anticipated to be a requirement for any locations where the proposed alignment leaves the existing alignment. Such clearing has the potential to impact endangered SAR vegetation such as American Ginseng and Butternut.

With respect to American Ginseng, NHIC provided information with respect to element occurrences within the general study area. The proposed improvements are not interpreted to be located in proximity to these element occurrences, and no observations of this species were noted by Ainley Group during the 2020 field investigations. Should it be determined that the works will impact areas associated with the element occurrences then the MECP should be contacted to discuss permit requirements.

A total of thirty-seven (37) Butternut were observed and assessed (by a certified Butternut Health Assessor; BHA) within the areas where works were anticipated to be beyond the existing roadway platform (i.e. within the Ainley identified blocks). Of these trees, there are thirty-two (32) Category 1 trees, two (2) Category 2 trees, and three (3) Category 3 trees. A BHA Report to document these findings is being prepared concurrent to this NHS report. Following finalization and submission of the BHA report to MECP, and following the 30-day review period, the following will apply:

- **Category 1 trees** – Are considered non-retainable and are not protected under the *ESA*, and can be removed without further approvals. These trees will not have implications on the design.
- **Category 2 trees** – Are considered retainable, and require approvals if works are to proceed within 25 m of these trees. It is anticipated that impacts to these trees can be permitted by Registering the Activity under *O.Reg. 242/08*, with completion of a corresponding compensation program. Depending on the size of the trees to be impacted (killed, harmed, or taken), there are varying ratios of compensation plantings (Butternut and companion species) that are required.
- **Category 3 trees** – Are considered as potentially archivable, and if these will be impacted, will require discussion with MECP and likely proceeding with the permitting process.

Turtle habitat is interpreted to be present within the connected wetlands, watercourses, and waterbodies within the project limits. Although infilling of these features is not anticipated to occur, works are likely to result in disturbance to the road shoulder and embankment at these features. The granular materials used in road shoulder and embankment construction are often sought after by nesting turtle species as a location to lay their eggs. As such, any disturbance to road shoulders and embankments during the nesting and incubation period has the potential to impact turtles. In order to limit the potential for impacts, shoulder or embankment works should be completed outside of the nesting and incubation period (May 15 to September 30). Alternatively, turtles can be excluded from these areas via temporary wildlife fence provided the fence is installed prior to May 15 and is maintained in good working order until September 30. Further to the above, wetland, watercourse, and waterbodies may also provide habitat for hibernating turtles. Activities which alter water levels have the potential to impact turtles should they occur during the hibernation period (September 30 to April 1). As such, works should not alter water levels in adjacent wetland, watercourse, and waterbodies during the hibernation period.

A review for grassland SAR birds was completed per the description in **Section 4.0**. Eastern Meadowlark was observed within the study limits, and is known to have a habitat preference that includes shrubby overgrown fields, and weedy borders or croplands. It is understood that the currently preferred alignment (60 kph alignment) will not encroach upon suitable habitat within the project limits; however, should alignment preferences change and require encroachment upon suitable habitat, then consultation should be completed with MECP to determine any approval requirements.

A review for Eastern Whip-poor-will (per **Section 4.0**) resulted in the observation of this species at several locations within the project limits. Observations were generally located greater than 100 m from the existing roadway, with the exception of one (1) observation. Further, vegetation clearing associated with the currently preferred alignment (60 kph alignment) is not proposed to extend into the areas of observation. The general habitat description for Eastern Whip-poor-will (MECP, 2019) notes that activities considered generally not compatible include;

- Large scale development or other activities that result in significant alteration or clearing of vegetation.
- Indiscriminate application of pesticides within habitat.

It is recommended that consultation be completed with MECP to discuss the location of Eastern Whip-poor-will observations and the preferred alignment to determine any approval requirements.

In regards to the above noted Barn Swallow observation, this included a single individual flyover in the area with agricultural buildings. Although, agricultural fields within the study limits may provide a location for foraging individuals, none of the identified alignments are proposed to encroach upon these features, nor will they require the removal of habitat which may support nesting individuals (i.e. barns). As such, regardless of the final alignment chosen, impacts to this species are anticipated to be minimal as a result of the proposed reconstruction of Ferguson Lake Road.

The remaining SAR are anticipated have low potential to be impacted by the proposed road reconstruction based on the results of field surveys, species specific habitat preferences, the existing on-site vegetation, and site conditions, or are special concern species for which the *ESA* provides no formal protection of individuals or their habitat.

Measures to limit impacts to those species identified with the potential to be impacted by the development are discussed in **Section 8.0**.

6.6.2 Significant Wetlands and Coastal Wetlands

Ferguson Lake PSW surrounds Ferguson Lake and is located within the study limits on the northeast side of Ferguson Lake Road from approximately Stn. 5+260 to Stn. 5+330. The proposed road alignment in this area does not appear to encroach upon the PSW; however, in an effort to limit the potential for impacts to this feature, intrusion into the feature for any reason (i.e. staging equipment, etc.) should be avoided and appropriate erosion and sediment controls should be employed.

Per the Natural Heritage Reference Manual (MNRF, 2010), a coastal wetland is defined as:

- a) any *wetland* that is located on one of the Great Lakes or their connecting channels (Lake St. Clair, St. Mary's, St. Clair, Detroit, Niagara and St. Lawrence Rivers); or
- b) any other *wetland* that is on a tributary to any of the above-specified water bodies and lies, either wholly or in part, downstream of a line located 2 kilometres upstream of the 1:100 year floodline (plus wave run-up) of the large water body to which the tributary is connected.

Based on this description, no Coastal Wetlands are present within the project limits.

In addition to the above, one (1) evaluated wetland, McNulty's Wetland, is present within the wetland feature extending from Constant Creek, through culverts CV-00463 (Stn 6+020) and

beyond McNulty Lake. Although this wetland was not evaluated to be provincially significant, and therefore does not receive protection under the PPS, it has been identified by MNRF as locally significant (**Appendix A**). Similar to the Ferguson Lake PSW, the proposed road alignment in this area does not appear to encroach upon the wetland; however, in an effort to limit the potential for impacts to this feature intrusion into the feature for any reason (i.e. staging equipment, etc.) should be avoided and appropriate erosion and sediment controls should be employed.

6.6.3 Significant Woodlands

Significant Woodlands within the region have been mapped by Renfrew County (2020). No Significant Woodlands have been identified within the study limits, and no impacts to Significant Woodlands are anticipated as a result of the undertaking.

6.6.4 Valleylands or Areas of Natural and Scientific Interest (ANSI)

Valleylands within the region have been mapped by Renfrew County (2020). No Valleylands have been identified within the study limits, and no impacts to Valleylands are anticipated as a result of the undertaking.

Areas of Natural and Scientific Interest (ANSIs) in the region are mapped by the County of Renfrew (2020). No ANSIs have been mapped within the project limits; therefore, no impacts to ANSIs are anticipated as a result of the undertaking.

In addition to the above, one (1) candidate ANSI, Ferguson Lake Escarpment, has been identified by MNRF on the southwest side of Ferguson Lake Road, extending from approximately Stn. 3+400 to Stn. 5+750, as shown below (provided by MNRF; **Appendix A**).



As a candidate ANSI this feature does not receive formal protection under the PPS; however, general avoidance of the feature should be undertaken where possible.

6.6.5 Significant Wildlife Habitat

In accordance with the *NHRM* (OMNR, 2010), there are four categories of significant wildlife habitat including the following:

- Rare vegetation communities or specialized habitat for wildlife.
- Habitat of species of conservation concern.
- Animal movement corridors.
- Habitats of seasonal concentrations of animals.

Criteria for confirmed significant wildlife habitat are provided in *Significant Wildlife Habitat Criteria Schedules For Ecoregion 5E* (OMNR, 2015).

Deer Wintering areas in the region are provided on mapping by the County of Renfrew (2020). Mapping indicates that much of the project limits falls along the western edge of a large deer wintering area which extends from approximately Kennelly Mountain Road, east to Goshen and to north of Highway 132. Additional information provided by MNRF notes that much of the road falls within a Stratum II (non-core) wintering area and that the significance of the feature in many ways depends on the nature of the project (i.e. upgrades to a road versus a new road). The MNRF Significant Wildlife Technical Guide (2000) notes that deer wintering yards generally consist of a core area of mainly coniferous trees (pines, hemlock, cedar, and spruce), with a canopy cover > 60%, which becomes the primary habitat of deer during severe winters (Stratum I habitat). In milder winters, the area adjacent to the core area is also used, and is typically comprised of mixed or deciduous forest, with accessible and available browse. These adjacent lands are known as Stratum II habitat, and cover the entirety of the wintering area. Stratum II areas are generally used when snow depths are less than 30 cm in depth, and may be used for the duration of the winter during mild conditions. Stratum I areas are identified as the deer yard core, and are located within the Stratum II area.

Amphibian Breeding Habitat (Wetlands) is confirmed where the presence of a breeding population of 1 or more of the listed newt/salamander species or 2 or more of the listed frog/toad species with at least 20 individuals, or 2 or more of the listed frog/toad species with call level codes of 3, or a wetland with breeding Bullfrogs. While amphibian monitoring was not included in the scope for the natural heritage study, Bullfrogs were observed calling within Constant Creek during Eastern Whip-poor-will surveys. The Bullfrogs were observed at Eastern Whip-poor-will Monitoring Station 5. As such, Constant Creek and any associated wetland community at this location is considered to be Significant Wildlife Habitat; however, impacts to such features are not anticipated to occur as a result of the undertaking.

As noted in **Section 6.6.1**, a review for potential maternity colonies was completed by Ainley Group per *Bats and Bat Habitats: Guidelines for Wind Power Projects* (MNR, 2011), as a result

of the vegetation communities identified within the study limits. This assessment was used to determine the density of snags with a diameter at breast height (DBH) greater than 0.25 m using a random plot analysis. The results of this assessment indicated a snag density (trees >0.25 m DBH) greater than 10 snags/hectare in the following ELC communities:

- Dry-Fresh Sugar Maple – Beech Deciduous Forest (FODM5-2)
- White Cedar – Hardwood Mineral Mixed Swamp (SWMM1-1)
- Dry-Fresh Sugar Maple – Hemlock Mixed Forest (FOMM3-3)
- Fresh-Moist White Spruce – Hardwood Mixed Forest (FOMM10-2)

These communities are found in the following blocks, as identified by Ainley Group:

- Block 5
- Block 7
- Block 10
- Block 14
- Block 15
- Block 16

It should be noted that the snag density assessment was only completed within portions of the project limits where the proposed alignment leaves the existing.

Based on the above, candidate significant wildlife habitat is present within the project limits. Should vegetation clearing be required within these areas then the approvals requirements should be discussed with MECP.

No other areas of significant wildlife habitat were observed or identified within the study limits.

7.0 PROPOSED DEVELOPMENT

The information within this NHS report has been compiled to support the EA process associated with the proposed reconstruction of Ferguson Lake Road from Kennelly Mountain Road to 200 m south of Campground Side Road. The proposed reconstruction may include modifications to the roadway footprint (i.e. straightening of existing curves) to accommodate any design speed upgrades. As a part of the process, Greenview is reviewing 60/70 kph, 70 kph, and 90 kph road alignments.

Information from Greenview notes the following dimensions for the reconstructed road; however, it is noted that tightening of slopes may be required where constraints exist.

- 3.3 m lane widths,
- 0.5 m paved shoulder,

- 0.5 m gravel shoulder,
- 2.0 m 4:1 foreslope, and
- Backslope extending at 3:1 to tie into the existing surface.

Generally speaking, based on information from Greenview, as the design speed increases, the extent of deviation from the existing alignment also increases (i.e. deviation from the existing alignment increases from the 60 kph alignment to the 90 kph alignment). Associated with this increased deviation are development requirements such as increased vegetation removal, increased grading requirements, and culvert extension within identified fish habitat. These additional requirements may result in the potential for increased impacts associated with the alignment shift. The following provides a summary of the key features of each of the proposed alignments.

60/70 kph Alignment

- Deviation from the existing alignment in Blocks 1, 2, 3, 4, 6, 8, 9, 10, 11, 13, 15, and 16.
- Deviation from the existing alignment is generally 10 m or less.
- Enhanced grading anticipated to be required in Blocks 1, 6, 8, 9, 13, and 15 where steep slopes are noted adjacent to the existing alignment.
- Potential for culvert extension requirements at CV-00468 (Stn 7+865) which has been identified as fish habitat.

70 kph Alignment

- Deviation from the existing alignment in Blocks 1, 2, 3, 5, 6, 7, 8, 9, 10, 12, 15, 16, .
- Deviation from the existing alignment is generally 20 m or less.
- Enhanced grading anticipated to be required in Blocks 1, 6, 7, 8, 9, 10, 13, and 15 where steep slopes are noted adjacent to the existing alignment.
- Potential for culvert extension requirements at CV-00456 (Stn 4+625), and CV-00468 (Stn 7+865) which have been identified as fish habitat.

90 kph Alignment

- Deviation from the existing alignment in Blocks 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, and 17.
- Deviation from the existing alignment is generally 50 m or less.
- Enhanced grading anticipated to be required in Blocks 1, 5, 6, 7, 8, 9, 10, 13, 15, and 17, where steep slopes are noted adjacent to the existing alignment

- Extensive enhanced grading anticipated in Blocks 1, 5, 8, and 17, associated with the furthest proposed alignment shifts.
- Potential for culvert extension requirements at CV-00456 (Stn 4+625), CV-00461 (Stn 5+718), and CV-00468 (Stn 7+865) which have been identified as fish habitat.
- Potential for encroachment into fish habitat identified at a watercourse adjacent to Ferguson Lake Road (Stn 6+875).

Typical construction aspects of the proposed development are likely to include removal/clearing of vegetation for construction purposes, ditching, roadway and shoulder grading and paving, and culvert replacement / rehabilitation.

Environmental constraints are shown on **Figures 12 - 21**.

8.0 ENVIRONMENTAL IMPACTS AND MITIGATION MEASURES

This section of the report describes the potential impacts on the natural heritage environment associated with each of the proposed road alignment options. It also outlines proposed mitigation measures, in consideration of standard development practices, in order to minimize or prevent negative impacts from the undertaking.

8.1.1 Erosion and Sediment Control

Potential Impacts

Road reconstruction, excavation, and grading activities, may result in the release of sediment into the adjacent natural features. In addition, exposed soils and/or stockpiles of excess material (such as earth, rock) can result in sediment transport to these areas during rain events.

The extent of exposed soils is anticipated to increase as the alignment design speed increases, with particular potential in areas where the 90 kph alignment will require a completely new footprint within areas of high topographic relief. Extensive grading will be required in these areas to accommodate the new road footprint.

Mitigation

In order to mitigate the transport of sediment during construction, environmental protection measures should be incorporated into the road re-construction process. To ensure protection of the surrounding natural environment the following should be undertaken during development:

Mitigation	Applicable Proposed Road Alignments
Prior to construction, all erosion and control measures proposed for the site should be identified in an Erosion and Sediment Control	<ul style="list-style-type: none"> • 60/70 kph alignment

Mitigation	Applicable Proposed Road Alignments
Plan. The finalized plan is to be relayed to the contractor with all requirements communicated.	<ul style="list-style-type: none"> • 70 kph alignment • 90 kph alignment
Contractor shall prepare and provide a spill response measures and contingency plan, to be reviewed and approved by the Contract Administrator.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
All construction activities including maintenance procedures will be controlled to prevent entry of deleterious substances into the natural environment. Vehicular maintenance and refueling will be conducted at least 30 m from waterways.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
During construction and grading activities, silt fence or other suitable erosion and sediment controls should be placed along the downgradient boundary of the construction zone to reduce the potential for sedimentation. Consideration should be given to applying multiple layers of silt fence or other erosion control barriers (i.e. straw bales, coir fibre logs) in areas of steep slope. The erosion control barrier should remain in place until the grading area becomes sufficiently vegetated to limit erosion and sedimentation potential. Once the site is stabilized, the erosion control barriers can be removed.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
The areal limits of exposed soils associated with grading areas should be minimized to the extent possible.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment

Mitigation	Applicable Proposed Road Alignments
Any exposed steep slope areas should be stabilized with vegetation and / or erosion control blankets / commercial seed mats to limit the potential sediment transport via overland flow.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
Prior to the commencement of construction activities all erosion and sediment control measures are to be inspected and certified by a qualified third-party inspector.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
The Contract Administrator (CA) should complete inspections of the erosion control features at regular intervals during construction, and at an increased frequency wherever there is the high potential for sedimentation (i.e. heavy rain events). Any deficiencies identified by the CA are to be immediately corrected by the Contractor.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
Daily inspection of the erosion control features by the Contractor.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
A minimum of 200 m of stand-by prefabricated silt fence barrier (in addition to those controls identified above) is to be maintained onsite prior to commencement of grading operations and throughout the duration of construction.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
Run-off from construction materials and any stockpiles shall be contained and discharged so as to prevent entry of sediment to the adjacent environment.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment

8.1.2 Surface Water Contamination and Debris Accumulation

Potential Impacts

During construction activities, the potential for accidental fuel or lubricant spillage, debris accumulation, and subsequent contamination to surface water is increased.

During construction within the project limits, temporary diversion of surface water may be required to facilitate dewatering activities, and the installation of coffer dams (as required) for any culvert replacement or rehabilitation.

Mitigation

To prevent the contamination of any surface water features (i.e. Constant Creek, Ferguson Lake and associated unnamed tributaries) within and adjacent to the project area during construction, precautions should be taken to avoid accidental spillage or discharge of chemical contaminants (e.g., gasoline, oils and lubricants).

Mitigation	Applicable Proposed Road Alignments
Refueling is to be carried out a minimum of 30 m from wetland / watercourse features in a controlled manner so as to prevent fuel spillage.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
All machinery should be kept out of the setbacks associated with the various features, and an emergency spill response kit should be on site at all times. In the event that a spill occurs, proper containment, clean up and reporting, in accordance with provincial requirements, should be undertaken.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
The Contractor will be required to take all necessary precautions to prevent the accumulation of litter and construction debris in any natural areas within and outside of the construction grading limits. All materials used or generated (e.g. organics, soils, debris, stockpiles) should be disposed of or stored in a manner that mitigates their entry to surface water features.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment

8.1.3 Vegetation

Potential Impacts

Construction activities will result in the removal of vegetation. Vegetation removal requirements will increase as the proposed alignment speed increases, thereby exacerbating impacts. In addition, thirty-seven (37) Butternuts were observed in the assessment blocks identified by Ainley Group. Potential impacts to this and other SAR vegetation is discussed in **Section 8.1.6**.

Mitigation

Vegetation removal is expected during construction; however, measures should be taken to limit vegetation removal to the extent possible, in an effort to maintain the ecological integrity of the landscape. This is particularly important for any road re-construction which may occur adjacent to the identified significant features.

Mitigation	Applicable Proposed Road Alignments
As part of tree removal during construction, appropriate tree felling and grubbing procedures (i.e. Best Management Practices) should be utilized in order to minimize impacts on surrounding vegetation. Documents such as the Ontario Woodlot Association's <i>A Landowner's Guide to Careful Logging</i> (2009), and Archibald <i>et al.</i> (1997) <i>Forest Management Guidelines for the Protection of the Physical Environment</i> can be reviewed for such techniques.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
Migratory breeding birds are protected under the <i>Migratory Birds Convention Act, 1994</i> . Under this act it is unlawful to kill or destroy migratory breeding birds or active nests. To avoid impacts to migratory birds, vegetation removal (as necessary) during development of the subject property should be avoided between mid-April and late-August (migratory bird breeding and nesting period; Environment and Climate Change Canada, 2018). If works are required within this timing window, then the area should be cleared of nests by a qualified biologist prior to the activity being undertaken.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment

8.1.4 **Wildlife and Bird Migration**

Potential Impacts

Potential impacts to wildlife and bird migration are anticipated to predominantly be associated with clearing, excavation, and grading activities, and are expected to be temporary in nature. None of the proposed road alignments are anticipated to have any long term impacts on wildlife and bird migration; however, the 60/70 alignment is considered to be more advantageous as it will require the least amount of clearing, excavation, and grading activities.

Mitigation:

Mitigation	Applicable Proposed Road Alignments
To limit potential impacts, care should be taken during construction to avoid incidental contact with wildlife.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment

8.1.5 **Significant Wildlife Habitat**

Potential Impacts

Candidate significant wildlife habitat for bat maternity colonies has been identified within the study limits, particularly within the following vegetation communities:

- Dry-Fresh Sugar Maple – Beech Deciduous Forest (FODM5-2)
- White Cedar – Hardwood Mineral Mixed Swamp (SWMM1-1)
- Dry-Fresh Sugar Maple – Hemlock Mixed Forest (FOMM3-3)
- Fresh-Moist White Spruce – Hardwood Mixed Forest (FOMM10-2)

Per the MNRF's Significant Wildlife Habitat Mitigation Support Tool (MNRF, 2014), impacts associated with road construction include both destruction of forest habitat that includes tree cavities used as nurseries, as well as disturbance of bats at these sites. However, it should be noted that the construction of new roads through extensively forested areas may make the site more suitable for foraging bats (MNRF, 2014).

Based on the location of the proposed 60/70, 70, and 90 kph alignments, the potential for impacts (associated with vegetation clearing) exists as follows:

Block	Alignments Requiring Vegetation Clearing within Candidate Significant Wildlife Habitat for Bats
5	90 kph
7	90 kph
10	70 kph 90 kph
14	90 kph (minor clearing anticipated)
15	60/70 kph 70 kph 90 kph
16	70 kph 90 kph

Further to the above, much of the project limits falls within a Stratum II deer wintering area. Per MNRF information, the significance of this feature greatly depends on the nature of the project (upgrades to an existing road versus construction of a new road). Impacts which may be associated with the reconstruction work could include habitat fragmentation, habitat access, and increased road mortality.

Mitigation:

The following mitigation measures should be employed to limit potential impacts to the identified Significant Wildlife Habitat:

Mitigation	Applicable Proposed Road Alignments
In an effort to mitigate potential impacts to bat species which may utilize snag / cavity trees within the development footprint, the removal of woody vegetation should be avoided between April 1 and September 30 to reduce the likelihood to harming bat species.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment

Should vegetation clearing be required in any or all of the above noted blocks, then a review of the clearing footprint should be completed to determine the number of snag / cavity trees requiring removal. These removal requirements should then be discussed with MECP to determine any necessary approvals.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
Where possible vegetation removal should be minimized and the reconstructed roadway should be maintained within the existing alignment to limit the potential for habitat fragmentation, and issues with access to habitat with the Stratum II deer wintering area.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment

8.1.6 **Species At Risk (SAR)**

Potential Impacts

As discussed in **Section 6.4.1** and **Table 2**, there is the potential for impacts to the following SAR:

- Little Brown Bat - Endangered
- Northern Long-eared Myotis - Endangered
- Tri-coloured Bat - Endangered
- Eastern Small-footed Myotis - Endangered
- American Ginseng - Endangered
- Butternut – Endangered
- Blanding's Turtle - Threatened
- Eastern Meadowlark – Threatened
- Eastern Whip-poor-will - Threatened
- Eastern Wood Pewee - Special Concern
- Snapping Turtle – Special Concern
- Wood Thrush – Special Concern
- Golden-winged Warbler – Special Concern
- Canada Warbler – Special Concern

- Evening Grosbeak – Special Concern

With respect to the Special Concern species identified above, neither individuals nor their habitat is afforded protection under the *ESA*.

Mitigation

Mitigation measures for protection of SAR are required, and should include the following:

Mitigation	Applicable Proposed Road Alignments
Where possible, road reconstruction should respect a 25 m setback from any of the identified retainable Butternut trees. Any reconstruction that may impact the identified retainable Butternut trees (i.e. fall within 25 m) should be completed in accordance with Section 23.7 of O. Reg. 242/08.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
Mitigation measures for the protection of SAR bat species and their habitat, as outlined in Section 8.1.5 , should be incorporated in any detailed design for the road reconstruction.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
Vegetation clearing should be avoided in areas of historical American Ginseng observations. If clearing is required, then permit requirements for the encroachment or removal of isolated populations will need to be discussed.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
Encroachment into wetland areas should be avoided to the extent possible for the protection of potential turtle habitat.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
The turtle nesting season is identified as May 15 th to September 30 th . If works are to occur during the nesting season, temporary wildlife fencing should be installed (prior to May 15 th) and maintained at locations exhibiting turtle	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment

nesting potential, including all connected wetlands, watercourses, and waterbodies within the project limits.	<ul style="list-style-type: none"> • 90 kph alignment
Stockpiled earth / granular materials in proximity to the areas identified as turtle habitat should be covered with geotextile, or be placed behind an exclusionary barrier, between May 15 th and June 30 th to prevent turtle nesting.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
Works should not alter water levels within the adjacent wetlands between September 30 and April 1 in any calendar year.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
Should the preferred alignment require encroachment upon suitable habitat for Eastern Meadowlark, then consultation should be completed with MECP to determine any approval requirements.	<ul style="list-style-type: none"> • 70 kph alignment • 90 kph alignment
Should the preferred alignment require encroachment upon habitat with Eastern Whip-poor-will observations, then consultation should be completed with MECP to determine any approval requirements.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
The construction contractor should be familiar with the SAR noted in this report. If SAR are identified during construction, all works in the immediate area should cease and the MECP must be contacted for direction to proceed.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
Harassment to SAR should not occur during construction activities.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment

8.1.7 Environmentally Sensitive Areas

Potential Impacts

Ferguson Lake PSW surrounds Ferguson Lake and is located within the study limits on the northeast side of Ferguson Lake Road from approximately Stn. 5+260 to Stn. 5+330. Within this area, none of the proposed road alignments (60/70 kph, 70 kph, or 90 kph) appear to encroach upon the PSW; however, impacts to this feature could occur should intrusion into the feature for any reason (i.e. staging equipment, etc.) be required.

In addition to the above feature, one candidate ANSI – Ferguson Lake Candidate ANSI and one regionally significant wetland – McNulty Lake Wetland, are also present within the study limits; however, neither feature receives formal protection. Regardless, encroachment or intrusion into these features should be avoided to the furthest extent possible.

Mitigation

Mitigation measures to limit impacts to the form and function of Ferguson Lake PSW include the following:

Mitigation	Applicable Proposed Road Alignments
Erosion and sediment controls, as outlined in Section 8.1.1 should be employed.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
Works should avoid the encroachment or intrusion of machinery or roads reconstruction related materials into Ferguson Lake PSW.	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment

8.1.8 Fisheries, Associated Habitat, and In-Water Works

Potential Impacts

Per **Section 6.4**, Ainley Group reviewed (8) locations of fish habitat within the study limits that have the potential to be impacted by road reconstruction.

During construction, potential impacts to the above noted watercourses and fish habitat may originate from exposed soils, equipment maintenance and refuelling, and stockpiles of excess material being located adjacent to watercourses during rain events. Suspension of sediments

can have direct negative effects on resident fish such as respiratory stress, reduced feeding efficiency, and impairment of physiologic processes such as growth and reproduction. Indirect effects may include changes in the diversity of food source, and the loss of spawning and nursery habitat. Elevated levels of suspended sediments may result in a shift in fish population diversity and density, as various species will leave the area for more suitable environments.

Mitigation

Mitigation	Applicable Proposed Road Alignments
<p>Any development within or adjacent to fish habitat should respect the MNRF identified timing windows for no in-water work, including:</p> <ul style="list-style-type: none"> • October 1st to July 15th at location CV-00456 (Stn 4+625) • March 15th to July 15th at locations CV-00454 (Stn 3+590), CV-00455 (Stn 4+000), CV-00460 (Stn 5+515), CV-00461 (Stn 5+718), CV-00463 (Stn 6+020), Watercourse adjacent Ferguson Lake Road (Stn 6+875), and CV-00468 (Stn 7+865) 	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment
<p>To limit the potential impacts caused by the proposed development, and to avoid causing the death of fish or harmful alteration, disruption, or destruction of fish habitat, the best management practices as identified by DFO's Measures to Protect Fish and Fish Habitat should also be implemented as warranted (DFO, 2019) which may include the following general mitigation and protection principles:</p> <ul style="list-style-type: none"> ○ Prevent the death of fish ○ Maintain riparian vegetation ○ Carry out works, undertakings, and activities on land ○ Ensure proper sediment control 	<ul style="list-style-type: none"> • 60/70 kph alignment • 70 kph alignment • 90 kph alignment

<ul style="list-style-type: none">○ Prevent entry of deleterious substances in water <p>If these measures cannot be met then a DFO Request for Review submission should be completed.</p>	
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The following Table 3 provides a summary of constraints, and anticipated approvals required with respect to natural heritage features within the study limits. Information within the table has been withheld to a degree to limit the availability of sensitive information.

Table 3
Environmental Constraints Summary
Ferguson Lake Road

Feature	Location	Coordinates	Fish Species (MNRF)	Mitigation	Approvals / Comments	Information Source (Feature)
<i>Migratory Birds</i>	Throughout study limits			No vegetation clearing between early April and Late August.	No approvals anticipated if following mitigation.	Environment Canada
<i>Fish Habitat</i>	Station 7+865 / Unnamed tributary of Constant Creek	18T 352279, 5020052	D/S: Constant Creek: Central mudminnow, Johnny darter, Largemouth bass, Pumpkinseed	No in-water work between March 15 and July 15	If watercourse alteration, infilling, or culvert modifications including lengthening are to occur, review for potential DFO approvals.	Ainley / MNRF
	Station 6+875 / Adjacent to an unnamed tributary of Constant Creek	18T 353048, 5019505	D/S: Constant Creek: Central mudminnow, Johnny darter, Largemouth bass, Pumpkinseed	No in-water work between March 15 and July 15	If watercourse alteration, infilling, or culvert modifications including lengthening are to occur, review for potential DFO approvals.	Ainley / MNRF
	Station 6+020 / Unnamed tributary of Constant Creek	18T 353713, 5019007	D/S: Constant Creek: Central mudminnow, Johnny darter, Largemouth bass, Pumpkinseed	No in-water work between March 15 and July 15	If watercourse alteration, infilling, or culvert modifications including lengthening are to occur, review for potential DFO approvals.	Ainley / MNRF
	Station 5+718 / Roadside drainage to Constant Creek	18T 353699, 5018738	D/S: Constant Creek: Central mudminnow, Johnny darter, Largemouth bass, Pumpkinseed	No in-water work between March 15 and July 15	If watercourse alteration, infilling, or culvert modifications including lengthening are to occur, review for potential DFO approvals.	Ainley / MNRF
	Station 5+515 / Unnamed tributary of Constant Creek	18T 353883, 5018616	D/S: Constant Creek: Central mudminnow, Johnny darter, Largemouth bass, Pumpkinseed	No in-water work between March 15 and July 15	If watercourse alteration, infilling, or culvert modifications including lengthening are to occur, review for potential DFO approvals.	Ainley / MNRF
	Station 4+625 / Unnamed tributary of Ferguson Lake	18T 354524, 5018099	D/S Constant Lake: Banded killifish, Blackchin shiner, Blacknose shiner, Bluntnose minnow, Brook Sittkleback, Brown bullhead, Cisco, Common shiner, Emerald shiner, Fathead minnow, Iowa darter, Northern pike, Northern redbelly dace, Pumpkinseed, Rockbass, Smallmouth bass, Walleye, White sucker, Yellow perch	No in-water work between October 1 and July 15	If watercourse alteration, infilling, or culvert modifications including lengthening are to occur, review for potential DFO approvals.	Ainley / MNRF
	Station 4+000 / Roadside drainage	18T 354915, 5017705	N/A	No in-water work between March 15 and July 15	If watercourse alteration, infilling, or culvert modifications including lengthening are to occur, review for potential DFO approvals.	Ainley / MNRF
	Station 3+590 / Unnamed tributary of Ferguson Lake	18T 355298, 5017572	N/A	No in-water work between March 15 and July 15	If watercourse alteration, infilling, or culvert modifications including lengthening are to occur, review for potential DFO approvals.	Ainley / MNRF
<i>Environmentally Sensitive Areas</i>	Ferguson Lake Escarpment Candidate ANSI	Located on SW side of Ferguson Lake Road, extending from approximately 3+400 to 5+750			General avoidance if possible. No formal status of feature, but should discuss with MNRF.	MNRF
	Ferguson Lake PSW	Located on the northeast side of the road from approximately 5+260 - 5+330		Avoid intrusion. Erosion and sediment controls.	Avoid intrusion into PSW	

Environmental Constraints Summary
Ferguson Lake Road

Feature	Location	Coordinates	Fish Species (MNRF)	Mitigation	Approvals / Comments	Information Source (Feature)
	Deer Wintering Areas	Project limits falls along the western edge of a large deer wintering area which extends from approximately Kennely Mountain Road, east to Goshen and to north of Highway 132. Deer wintering area within project limits is identified as Stratum II.		Where possible vegetation removal should be minimized and the reconstructed roadway should be maintained within the existing alignment to limit the potential for habitat fragmentation, issues with access to habitat, and increased road mortality associated with the Stratum II deer wintering area.	General avoidance where possible. Should the preferred alignment require extensive vegetation removal then discussions with MNRF should be undertaken.	
SAR						
Turtles (Snapping and Blanding's)	Data Sensitivity prohibits release of this information			Avoid encroachment into wetlands where possible. If works are to occur along the granular shoulder, install temporary wildlife fencing prior to May 15 in any calendar year. Works should not alter water levels in adjacent wetlands between September 30 and April 1 in any calendar year.		Ainley / MNRF
Grassland Birds (Bobolink / Eastern meadowlark)	Data Sensitivity prohibits release of this information				Confirm approval requirements from MECP based on preferred alternative.	
Eastern Whip-poor-will	Data Sensitivity prohibits release of this information				Confirm approval requirements from MECP based on preferred alternative.	
Butternut	Data Sensitivity prohibits release of this information			Avoid Category 3 trees, and 25 m buffer to the extent possible.	Cat. 1 - No approvals necessary. Cat. 2 - Removal of up to 10 trees available under O.Reg. 242/08. Compensation plantings required (generally streamlined approval process). Cat. 3 - Removal of Cat. 3 trees will require a permit from MECP (6 months + duration)	Ainley / MNRF
American Ginseng	Data Sensitivity prohibits release of this information			Avoid areas with known population areas.	MECP permit required for encroachment or removal of isolated populations.	Ainley / MNRF
Bats	Data Sensitivity prohibits release of this information			Vegetation removal should occur outside of the period of April 1 to September 30.	Confirm approval requirements from MECP based on preferred alternative.	

9.0 CONCLUSIONS AND RECOMMENDATIONS

Based on the review of the background information, consultation with regulatory authorities, and the field visits completed in 2020, the following conclusions and recommendations are made.

9.1 Conclusions

- Sixteen (16) vegetation communities were identified within the study limits.
- Nine (9) locations of fish habitat were identified within the study limits; however, it is understood that none of the proposed work will require modifications at the locations where Constant Creek crosses Ferguson Lake Road, so these locations were not included for detailed fisheries assessment.
- During the field visits completed by Ainley Group in 2020, five (5) SAR, were observed on or adjacent to the study limits as follows:
 - Butternut
 - Barn Swallow
 - Eastern Meadowlark
 - Eastern Whip-poor-will
 - Eastern Wood-pewee
- The proposed alignments have the potential to impact the following SAR:
 - Little Brown Bat - Endangered
 - Northern Long-eared Myotis - Endangered
 - Tri-coloured Bat - Endangered
 - Eastern Small-footed Myotis - Endangered
 - American Ginseng - Endangered
 - Butternut – Endangered
 - Blanding's Turtle - Threatened
 - Eastern Meadowlark – Threatened
 - Eastern Whip-poor-will - Threatened
 - Eastern Wood Pewee - Special Concern
 - Snapping Turtle – Special Concern
 - Wood Thrush – Special Concern
 - Golden-winged Warbler – Special Concern

- Canada Warbler – Special Concern
- Evening Grosbeak – Special Concern
- Candidate significant wildlife habitat for bat maternity colonies has been identified within the study limits, particularly within the following vegetation communities:
 - Dry-Fresh Sugar Maple – Beech Deciduous Forest (FODM5-2)
 - White Cedar – Hardwood Mineral Mixed Swamp (SWMM1-1)
 - Dry-Fresh Sugar Maple – Hemlock Mixed Forest (FOMM3-3)
 - Fresh-Moist White Spruce – Hardwood Mixed Forest (FOMM10-2)
- Much of the project limits falls within a Stratum II deer wintering area. Per MNRF information, the significance of this feature greatly depends on the nature of the project (upgrades to an existing road versus construction of a new road). Impacts which may be associated with the reconstruction work could include habitat fragmentation, habitat access, and increased road mortality.
- Ferguson Lake PSW surrounds Ferguson Lake and is located within the study limits on the northeast side of Ferguson Lake Road from approximately Stn. 5+260 to Stn. 5+330. Within this area, none of the proposed road alignments (60/70 kph, 70 kph, or 90 kph) appear to encroach upon the PSW; however, impacts to this feature could occur should intrusion into the feature for any reason (i.e. staging equipment, etc.) be required.
- One candidate ANSI – Ferguson Lake Candidate ANSI and one regionally significant wetland – McNulty Lake Wetland, are present within the study limits; however, neither feature receives formal protection.

9.2 Recommendations

- Prior to construction, all erosion and control measures proposed for the site should be identified in an Erosion and Sediment Control Plan. The finalized plan is to be relayed to the contractor with all requirements communicated.
- Contractor shall prepare and provide a spill response measures and contingency plan, to be reviewed and approved by the Contract Administrator.
- All construction activities including maintenance procedures will be controlled to prevent entry of deleterious substances into the natural environment. Vehicular maintenance and refueling will be conducted at least 30 m from waterways.
- During construction and grading activities, silt fence or other suitable erosion and sediment controls should be placed along the downgradient boundary of the construction zone to reduce the potential for sedimentation. Consideration should be given to applying multiple layers of silt fence or other erosion control barriers (i.e. straw bales, coir fibre logs) in areas of steep slope. The erosion control barrier should remain in place until the grading area becomes sufficiently vegetated to limit erosion and

sedimentation potential. Once the site is stabilized, the erosion control barriers can be removed.

- The areal limits of exposed soils associated with grading areas should be minimized to the extent possible.
- Any exposed steep slope areas should be stabilized with vegetation and / or erosion control blankets / commercial seed mats to limit the potential sediment transport via overland flow.
- Prior to the commencement of construction activities all erosion and sediment control measures are to be inspected and certified by a qualified inspector.
- The Contract Administrator (CA) should complete inspections of the erosion control features at regular intervals during construction, and at an increased frequency wherever there is the high potential for sedimentation (i.e. heavy rain events). Any deficiencies identified by the CA are to be immediately corrected by the Contractor.
- Daily inspection of the erosion control features by the Contractor.
- A minimum of 200 m of stand-by prefabricated silt fence barrier (in addition to those controls identified above) is to be maintained onsite prior to commencement of grading operations and throughout the duration of construction.
- Run-off from construction materials and any stockpiles shall be contained and discharged so as to prevent entry of sediment to the adjacent environment.
- Refueling is to be carried out a minimum of 30 m from wetland / watercourse features in a controlled manner so as to prevent fuel spillage.
- All machinery should be kept out of the setbacks associated with the various features, and an emergency spill response kit should be on site at all times. In the event that a spill occurs, proper containment, clean up and reporting, in accordance with provincial requirements, should be undertaken.
- The Contractor will be required to take all necessary precautions to prevent the accumulation of litter and construction debris in any natural areas within and outside of the construction grading limits. All materials used or generated (e.g. organics, soils, debris, stockpiles) should be disposed of or stored in a manner that mitigates their entry to surface water features.
- As part of tree removal during construction, appropriate tree felling and grubbing procedures (i.e. Best Management Practices) should be utilized in order to minimize impacts on surrounding vegetation. Documents such as the Ontario Woodlot Association's *A Landowner's Guide to Careful Logging* (2009), and Archibald *et al.* (1997) *Forest Management Guidelines for the Protection of the Physical Environment* can be reviewed for such techniques.

- Migratory breeding birds are protected under the *Migratory Birds Convention Act, 1994*. Under this act it is unlawful to kill or destroy migratory breeding birds or active nests. To avoid impacts to migratory birds, vegetation removal (as necessary) during development of the subject property should be avoided between mid-April and late-August (migratory bird breeding and nesting period; Environment and Climate Change Canada, 2018). If works are required within this timing window, then the area should be cleared of nests by a qualified biologist prior to the activity being undertaken.
- To limit potential impacts, care should be taken during construction to avoid incidental contact with wildlife.
- In an effort to mitigate potential impacts to bat species which may utilize snag / cavity trees within the development footprint, the removal of woody vegetation should be avoided between April 1 and September 30 to reduce the likelihood to harming bat species.
- Should vegetation clearing be required in any of the candidate significant wildlife habitat for bats, then a review of the clearing footprint should be completed to determine the number of snag / cavity trees requiring removal. These removal requirements should then be discussed with MECP to determine any necessary approvals.
- Where possible vegetation removal should be minimized and the reconstructed roadway should be maintained within the existing alignment to limit the potential for habitat fragmentation, and issues with access to habitat associated with the Stratum II deer wintering area.
- Where possible, road reconstruction should respect a 25 m setback from any of the identified retainable Butternut trees. Any reconstruction that may impact the identified retainable Butternut trees (i.e. fall within 25 m) should be completed in accordance with Section 23.7 of O. Reg. 242/08.
- Vegetation clearing should be avoided in areas of historical American Ginseng observations. If clearing is required, then permit requirements for the encroachment or removal of isolated populations will need to be discussed.
- Encroachment into wetland areas should be avoided to the extent possible for the protection of potential turtle habitat.
- The turtle nesting season is identified as May 15th to September 30th. If works are to occur during the nesting season, temporary wildlife fencing should be installed (prior to May 15th) and maintained at locations exhibiting turtle nesting potential, including all connected wetlands, watercourses, and waterbodies within the project limits.
- Stockpiled earth / granular materials in proximity to the areas identified as turtle habitat should be covered with geotextile, or be placed behind an exclusionary barrier, between May 15th and June 30th to prevent turtle nesting.

- Works should not alter water levels within the adjacent wetlands between September 30 and April 1 in any calendar year.
- Should the preferred alignment require encroachment upon suitable habitat for Eastern Meadowlark, then consultation should be completed with MECP to determine any approval requirements.
- Should the preferred alignment require encroachment upon habitat with Eastern Whip-poor-will observations, then consultation should be completed with MECP to determine any approval requirements.
- The construction contractor should be familiar with the SAR noted in this report. If SAR are identified during construction, all works in the immediate area should cease and the MECP must be contacted for direction to proceed.
- Harassment to SAR should not occur during construction activities.
- Encroachment or intrusion into sensitive features, including Ferguson Lake PSW, Ferguson Lake Candidate ANSI, and McNulty Lake Wetland should be avoided to the extent possible.
- Any development within or adjacent to fish habitat should respect the MNRF identified timing windows for no in-water work, including:
 - October 1st to July 15th at location CV-00456 (Stn 4+625)
 - March 15th to July 15th at locations CV-00454 (Stn 3+590), CV-00455 (Stn 4+000), CV-00460 (Stn 5+515), CV-00461 (Stn 5+718), CV-00463 (Stn 6+020), Watercourse adjacent Ferguson Lake Road (Stn 6+875), and CV-00468 (Stn 7+865)
- To limit the potential impacts caused by the proposed development, and to avoid causing the death of fish or harmful alteration, disruption, or destruction of fish habitat, the best management practices as identified by DFO's Measures to Protect Fish and Fish Habitat should also be implemented as warranted (DFO, 2019) which may include the following general mitigation and protection principles:
 - Prevent the death of fish
 - Maintain riparian vegetation
 - Carry out works, undertakings, and activities on land
 - Ensure proper sediment control
 - Prevent entry of deleterious substances in water

If these measures cannot be met then a DFO Request for Review submission should be completed.

10.0 CLOSURE

Ainley Group has prepared this Natural Heritage Study per the terms of reference in an effort to describe the proposed Ferguson Lake Road reconstruction, summarize potential impacts due to the undertaking, and identify mitigation measures and monitoring commitments to limit potential impacts, and to identify any future studies required.

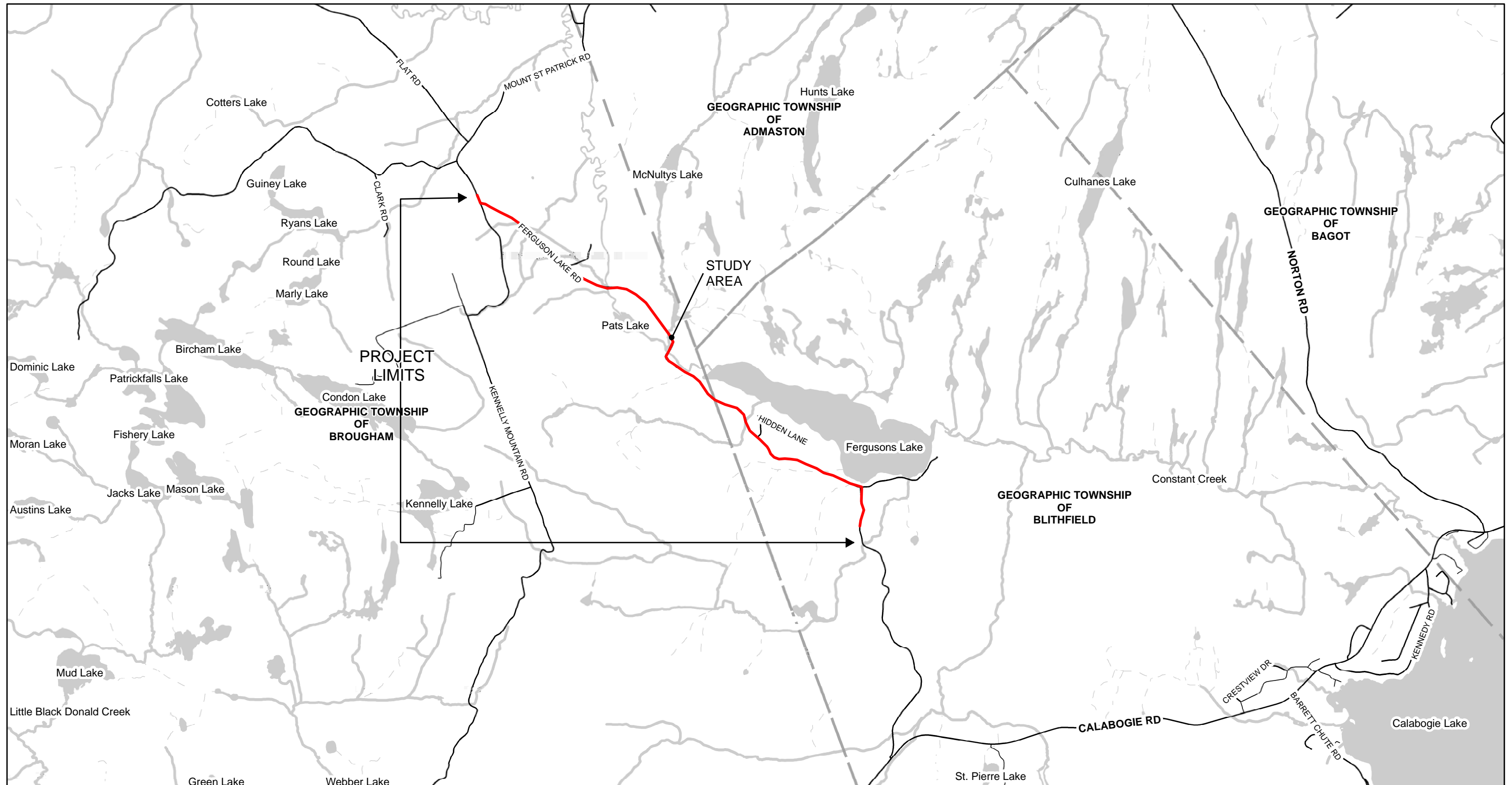
Based on the results of the background review, field studies, and an assessment of impacts, it appears that the alignment which will result in the least amount of impacts is the 60/70 alignment; however, it should be noted that all alignments will result in some impacts (to varying degrees) to natural heritage features within the study limits.

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FIGURES



Legend			
---	BLOCKS (POTENTIAL ALIGNMENT SHIFT)	FODM5-6	DRY-FRESH SUGAR MAPLE-BASSWOOD DECIDUOUS FOREST
---	PROPOSED 60KPH ALIGNMENT	FODM8-1	FRESH-MOIST POPLAR DECIDUOUS FOREST
---	EXISTING ALIGNMENT	FODM2-2	DRY-FRESH WHITE PINE-SUGAR MAPLE MIXED FOREST
---	ELC COMMUNITY BOUNDARIES	FODM3-3	DRY-FRESH SUGAR MAPLE-HEMLOCK MIXED FOREST
---	INTERMITTENT	FODM5-2	DRY-FRESH POPLAR MIXED FOREST
---	PERMANENT	FODM10-2	FRESH-MOIST WHITE SPRUCE-HARDWOOD MIXED FOREST
CVI_1	TRANSPORTATION	MEMM3	DRY-FRESH MIXED MEADOW PERENNIAL COVER CROPS
FODM3-1	DRY-FRESH POPLAR DECIDUOUS FOREST	OAGM2	PERENNIAL COVER CROPS
FODM4-1	DRY-FRESH BEECH DECIDUOUS FOREST	SWCM1-2	WHITE CEDAR-CONIFER MINERAL CONIFEROUS FOREST
FODM5-2	DRY-FRESH SUGAR MAPLE-BEECH DECIDUOUS FOREST	SWMM1-1	WHITE CEDAR-HARDWOOD MINERAL MIXED SWAMP
		SWTM1-1	SPECKLED ALDER MINERAL DECIDUOUS THICKET SWAMP
		SWTM2-1	RED-OSIER DOGWOOD MINERAL DECIDUOUS THICKET SWAMP

METRIC
 DIMENSIONS ARE IN METRES
 AND/OR MILLIMETERS
 UNLESS OTHERWISE SHOWN

FERGUSON LAKE ROAD		N
		FIGURE 2
EXISTING CONDITIONS		



Legend

BLOCKS (POTENTIAL ALIGNMENT SHIFT)

PROPOSED 60KPH ALIGNMENT

EXISTING ALIGNMENT

ELC COMMUNITY BOUNDARIES

INTERMITTENT

PERMANENT

CVI_1

TRANSPORTATION

FODM3-1

FODM4-1

FODM5-2

DRY-FRESH POPLAR DECIDUOUS FOREST

DRY-FRESH BEECH DECIDUOUS FOREST

DRY-FRESH SUGAR MAPLE-BEECH DECIDUOUS FOREST

FODM5-6

FODM8-1

FODM2-2

FODM3-3

FODM5-2

FODM10-2

DRY-FRESH SUGAR MAPLE-BASSWOOD DECIDUOUS FOREST

FRESH-MOIST POPLAR DECIDUOUS FOREST

DRY-FRESH WHITE PINE-SUGAR MAPLE MIXED FOREST

DRY-FRESH SUGAR MAPLE-HEMLOCK MIXED FOREST

DRY-FRESH POPLAR MIXED FOREST

FRESH-MOIST WHITE SPRUCE-HARDWOOD MIXED FOREST

MEMM3

OAGM2

SWCM1-2

SWMM1-1

SWTM1-1

SWTM2-1

DRY-FRESH MIXED MEADOW PERENNIAL COVER CROPS

WHITE CEDAR-CONIFER MINERAL CONIFEROUS FOREST

WHITE CEDAR-HARDWOOD MINERAL MIXED SWAMP

SPECKLED ALDER MINERAL DECIDUOUS THICKET SWAMP

RED-OSIER DOGWOOD MINERAL DECIDUOUS THICKET SWAMP

METRIC

DIMENSIONS ARE IN METRES AND/OR MILLIMETERS UNLESS OTHERWISE SHOWN

FERGUSON LAKE ROAD

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FIGURE 3

EXISTING CONDITIONS

An aerial photograph of a wooded area adjacent to a large body of water labeled 'Fergusons Lake'. A proposed road alignment is shown as a yellow line, with an existing alignment shown as a pink line. The area is divided into several blocks by dashed red lines, labeled 'BLOCK 2', 'BLOCK 3', and 'BLOCK 4'. Various forest types are labeled with codes: FODM5-2, SWCM1-2, MEMM3, FODM3-1, and FODM4-1. A dashed blue line represents an intermittent boundary, and a solid blue line represents a permanent boundary. A label 'CVL1' is placed near the road alignment. The map is overlaid with a grid of dashed lines.

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Source: Land Information Ontario (MNR)

N.T.S

Legend			
---	BLOCKS (POTENTIAL ALIGNMENT SHIFT)	FODM5-6	DRY-FRESH SUGAR MAPLE-BASSWOOD DECIDUOUS FOREST
---	PROPOSED 60KPH ALIGNMENT	FODM8-1	FRESH-MOIST POPLAR DECIDUOUS FOREST
---	EXISTING ALIGNMENT	FODM2-2	DRY-FRESH WHITE PINE-SUGAR MAPLE MIXED FOREST
---	ELC COMMUNITY BOUNDARIES	FODM3-3	DRY-FRESH SUGAR MAPLE-HEMLOCK MIXED FOREST
---	INTERMITTENT	FODM5-2	DRY-FRESH POPLAR MIXED FOREST
---	PERMANENT	FODM10-2	FRESH-MOIST WHITE SPRUCE-HARDWOOD MIXED FOREST
CVI_1	TRANSPORTATION	MEMM3	DRY-FRESH MIXED MEADOW
FODM3-1	DRY-FRESH POPLAR DECIDUOUS FOREST	OAGM2	PERENNIAL COVER CROPS
FODM4-1	DRY-FRESH BEECH DECIDUOUS FOREST	SWCM1-2	WHITE CEDAR-CONIFER MINERAL CONIFEROUS FOREST
FODM5-2	DRY-FRESH SUGAR MAPLE-BEECH DECIDUOUS FOREST	SWMM1-1	WHITE CEDAR-HARDWOOD MINERAL MIXED SWAMP
		SWTM1-1	SPECKLED ALDER MINERAL DECIDUOUS THICKET SWAMP
		SWTM2-1	RED-OSIER DOGWOOD MINERAL DECIDUOUS THICKET SWAMP

METRIC
 DIMENSIONS ARE IN METRES
 AND/OR MILLIMETERS
 UNLESS OTHERWISE SHOWN

FERGUSON LAKE ROAD




FIGURE 4

EXISTING CONDITIONS



Legend

BLOCKS (POTENTIAL ALIGNMENT SHIFT)

PROPOSED 60KPH ALIGNMENT

EXISTING ALIGNMENT

ELC COMMUNITY BOUNDARIES

INTERMITTENT

PERMANENT

CVI_1

TRANSPORTATION

FODM3-1

FODM4-1

FODM5-2

DRY-FRESH POPLAR DECIDUOUS FOREST

DRY-FRESH BEECH DECIDUOUS FOREST

DRY-FRESH SUGAR MAPLE-BEECH DECIDUOUS FOREST

FODM5-6

FODM8-1

FODM2-2

FODM3-3

FODM5-2

FODM10-2

DRY-FRESH SUGAR MAPLE-BASSWOOD DECIDUOUS FOREST

FRESH-MOIST POPLAR DECIDUOUS FOREST

DRY-FRESH WHITE PINE-SUGAR MAPLE MIXED FOREST

DRY-FRESH SUGAR MAPLE-HEMLOCK MIXED FOREST

DRY-FRESH POPLAR MIXED FOREST

FRESH-MOIST WHITE SPRUCE-HARDWOOD MIXED FOREST

MEMM3

OAGM2

SWCM1-2

SWMM1-1

SWTM1-1

SWTM2-1

DRY-FRESH MIXED MEADOW PERENNIAL COVER CROPS

WHITE CEDAR-CONIFER MINERAL CONIFEROUS FOREST

WHITE CEDAR-HARDWOOD MINERAL MIXED SWAMP

SPECKLED ALDER MINERAL DECIDUOUS THICKET SWAMP

RED-OSIER DOGWOOD MINERAL DECIDUOUS THICKET SWAMP

METRIC

DIMENSIONS ARE IN METRES AND/OR MILLIMETERS UNLESS OTHERWISE SHOWN

FERGUSON LAKE ROAD

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FIGURE 5

EXISTING CONDITIONS

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Source: Land Information Ontario (MNR)

N.T.S

Legend

BLOCKS (POTENTIAL ALIGNMENT SHIFT)

PROPOSED 60KPH ALIGNMENT

EXISTING ALIGNMENT

ELC COMMUNITY BOUNDARIES

INTERMITTENT

PERMANENT

CVI_1

TRANSPORTATION

FODM3-1

DRY-FRESH POPLAR DECIDUOUS FOREST

FODM4-1

DRY-FRESH BEECH DECIDUOUS FOREST

FODM5-2

DRY-FRESH SUGAR MAPLE-BEECH DECIDUOUS FOREST

FODM5-6

DRY-FRESH SUGAR MAPLE-BASSWOOD DECIDUOUS FOREST

FODM8-1

FRESH-MOIST POPLAR DECIDUOUS FOREST

FOMM2-2

DRY-FRESH WHITE PINE-SUGAR MAPLE MIXED FOREST

FOMM3-3

DRY-FRESH SUGAR MAPLE-HEMLOCK MIXED FOREST

FOMM5-2

DRY-FRESH POPLAR MIXED FOREST

FOMM10-2

FRESH-MOIST WHITE SPRUCE-HARDWOOD MIXED FOREST

MEMM3

DRY-FRESH MIXED MEADOW

OAGM2

PERENNIAL COVER CROPS

SWCM1-2

WHITE CEDAR-CONIFER MINERAL CONIFEROUS FOREST

SWMM1-1

WHITE CEDAR-HARDWOOD MINERAL MIXED SWAMP

SWTM1-1

SPECKLED ALDER MINERAL DECIDUOUS THICKET SWAMP

SWTM2-1

RED-OSIER DOGWOOD MINERAL DECIDUOUS THICKET SWAMP

METRIC

DIMENSIONS ARE IN METRES AND/OR MILLIMETERS UNLESS OTHERWISE SHOWN

FERGUSON LAKE ROAD

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CONSULTING ENGINEERS PLANNERS

FIGURE 6

EXISTING CONDITIONS

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Source: Land Information Ontario (MNR)

N.T.S

Legend

BLOCKS (POTENTIAL ALIGNMENT SHIFT)

PROPOSED 60KPH ALIGNMENT

EXISTING ALIGNMENT

ELC COMMUNITY BOUNDARIES

INTERMITTENT

PERMANENT

CVI_1

TRANSPORTATION

FODM3-1

DRY-FRESH POPLAR DECIDUOUS FOREST

FODM4-1

DRY-FRESH BEECH DECIDUOUS FOREST

FODM5-2

DRY-FRESH SUGAR MAPLE-BEECH DECIDUOUS FOREST

FODM5-6

DRY-FRESH SUGAR MAPLE-BASSWOOD DECIDUOUS FOREST

FODM8-1

FRESH-MOIST POPLAR DECIDUOUS FOREST

FODM2-2

DRY-FRESH WHITE PINE-SUGAR MAPLE MIXED FOREST

FODM3-3

DRY-FRESH SUGAR MAPLE-HEMLOCK MIXED FOREST

FODM5-2

DRY-FRESH POPLAR MIXED FOREST

FODM10-2

FRESH-MOIST WHITE SPRUCE-HARDWOOD MIXED FOREST

MEMM3

DRY-FRESH MIXED MEADOW PERENNIAL COVER CROPS

OAGM2

PERENNIAL COVER CROPS

SWCM1-2

WHITE CEDAR-CONIFER MINERAL CONIFEROUS FOREST

SWMM1-1

WHITE CEDAR-HARDWOOD MINERAL MIXED SWAMP

SWTM1-1

SPECKLED ALDER MINERAL DECIDUOUS THICKET SWAMP

SWTM2-1

RED-OSIER DOGWOOD MINERAL DECIDUOUS THICKET SWAMP

METRIC

DIMENSIONS ARE IN METRES AND/OR MILLIMETERS UNLESS OTHERWISE SHOWN

FERGUSON LAKE ROAD

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FIGURE 7

EXISTING CONDITIONS

The figure is an aerial photograph of a rural landscape. A large, winding blue area represents Constant Creek, which flows from the top left towards the bottom right. In the top left corner, a smaller blue area is labeled 'Pats Lake'. A yellow line, representing the proposed 60KPH alignment, runs diagonally from the top center towards the bottom right. A pink line, representing the existing alignment, follows a similar path but is slightly offset from the yellow line. Two red dashed lines, labeled 'BLOCK 11', cross the yellow alignment line. A blue line, representing the permanent boundary, follows the creek and then turns to follow the alignment. Various labels are placed on the map: 'Constant Creek' in two locations, 'CVI_1' near the intersection of the creek and alignment, and 'SWTM2-1' near the creek. The background is a dense green forest. In the bottom right, there are some buildings and a road.

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Source: Land Information Ontario (MNR)

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Legend

BLOCKS (POTENTIAL ALIGNMENT SHIFT)

PROPOSED 60KPH ALIGNMENT

EXISTING ALIGNMENT

ELC COMMUNITY BOUNDARIES

INTERMITTENT

PERMANENT

CVI_1

TRANSPORTATION

FODM3-1

DRY-FRESH POPLAR DECIDUOUS FOREST

FODM4-1

DRY-FRESH BEECH DECIDUOUS FOREST

FODM5-2

DRY-FRESH SUGAR MAPLE-BEECH DECIDUOUS FOREST

FODM5-6

DRY-FRESH SUGAR MAPLE-BASSWOOD DECIDUOUS FOREST

FODM8-1

FRESH-MOIST POPLAR DECIDUOUS FOREST

FODM2-2

DRY-FRESH WHITE PINE-SUGAR MAPLE MIXED FOREST

FODM3-3

DRY-FRESH SUGAR MAPLE-HEMLOCK MIXED FOREST

FODM5-2

DRY-FRESH POPLAR MIXED FOREST

FODM10-2

FRESH-MOIST WHITE SPRUCE-HARDWOOD MIXED FOREST

MEMM3

DRY-FRESH MIXED MEADOW

OAGM2

PERENNIAL COVER CROPS

SWCM1-2

WHITE CEDAR-CONIFER MINERAL CONIFEROUS FOREST

SWMM1-1

WHITE CEDAR-HARDWOOD MINERAL MIXED SWAMP

SWTM1-1

SPECKLED ALDER MINERAL DECIDUOUS THICKET SWAMP

SWTM2-1

RED-OSIER DOGWOOD MINERAL DECIDUOUS THICKET SWAMP

METRIC

DIMENSIONS ARE IN METRES AND/OR MILLIMETERS UNLESS OTHERWISE SHOWN

FERGUSON LAKE ROAD

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CONSULTING ENGINEERS PLANNERS

EXISTING CONDITIONS

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FIGURE 8



Legend					
 BLOCKS (POTENTIAL ALIGNMENT SHIFT)					
 PROPOSED 60KPH ALIGNMENT					
 EXISTING ALIGNMENT					
 ELC COMMUNITY BOUNDARIES					
 INTERMITTENT					
 PERMANENT					
CVI_1	TRANSPORTATION	FODM5-6	DRY-FRESH SUGAR MAPLE-BASSWOOD DECIDUOUS FOREST	MEMM3	DRY-FRESH MIXED MEADOW PERENNIAL COVER CROPS
FODM3-1	DRY-FRESH POPLAR DECIDUOUS FOREST	FODM8-1	FRESH-MOIST POPLAR DECIDUOUS FOREST	OAGM2	WHITE CEDAR-CONIFER MINERAL CONIFEROUS FOREST
FODM4-1	DRY-FRESH BEECH DECIDUOUS FOREST	FODM2-2	DRY-FRESH WHITE PINE-SUGAR MAPLE MIXED FOREST	SWCM1-2	WHITE CEDAR-HARDWOOD MINERAL MIXED SWAMP
FODM5-2	DRY-FRESH SUGAR MAPLE-BEECH DECIDUOUS FOREST	FODM3-3	DRY-FRESH SUGAR MAPLE-HEMLOCK MIXED FOREST	SWMM1-1	SPECKLED ALDER MINERAL DECIDUOUS THICKET SWAMP
		FODM5-2	DRY-FRESH POPLAR MIXED FOREST	SWTM1-1	RED-OSIER DOGWOOD MINERAL DECIDUOUS THICKET SWAMP
		FODM10-2	FRESH-MOIST WHITE SPRUCE-HARDWOOD MIXED FOREST	SWTM2-1	

METRIC

DIMENSIONS ARE IN METRES AND/OR MILLIMETERS UNLESS OTHERWISE SHOWN

FERGUSON LAKE ROAD




FIGURE 9

EXISTING CONDITIONS



Legend

BLOCKS (POTENTIAL ALIGNMENT SHIFT)

PROPOSED 60KPH ALIGNMENT

EXISTING ALIGNMENT

ELC COMMUNITY BOUNDARIES

INTERMITTENT

PERMANENT

CVI_1

TRANSPORTATION

FODM3-1

DRY-FRESH POPLAR DECIDUOUS FOREST

FODM4-1

DRY-FRESH BEECH DECIDUOUS FOREST

FODM5-2

DRY-FRESH SUGAR MAPLE-BEECH DECIDUOUS FOREST

FODM5-6

DRY-FRESH SUGAR MAPLE-BASSWOOD DECIDUOUS FOREST

FODM8-1

FRESH-MOIST POPLAR DECIDUOUS FOREST

FOMM2-2

DRY-FRESH WHITE PINE-SUGAR MAPLE MIXED FOREST

FOMM3-3

DRY-FRESH SUGAR MAPLE-HEMLOCK MIXED FOREST

FOMM5-2

DRY-FRESH POPLAR MIXED FOREST

FOMM10-2

FRESH-MOIST WHITE SPRUCE-HARDWOOD MIXED FOREST

MEMM3

DRY-FRESH MIXED MEADOW PERENNIAL COVER CROPS

OAGM2

WHITE CEDAR-CONIFER MINERAL CONIFEROUS FOREST

SWMM1-1

WHITE CEDAR-HARDWOOD MINERAL MIXED SWAMP

SWTM1-1

SPECKLED ALDER MINERAL DECIDUOUS THICKET SWAMP

SWTM2-1

RED-OSIER DOGWOOD MINERAL DECIDUOUS THICKET SWAMP

METRIC

DIMENSIONS ARE IN METRES AND/OR MILLIMETERS UNLESS OTHERWISE SHOWN

FERGUSON LAKE ROAD







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CONSULTING ENGINEERS PLANNERS



FIGURE 10

EXISTING CONDITIONS



Legend					
 BLOCKS (POTENTIAL ALIGNMENT SHIFT)		FODM5-6	DRY-FRESH SUGAR MAPLE-BASSWOOD	MEMM3	DRY-FRESH MIXED MEADOW
 PROPOSED 60KPH ALIGNMENT			DECIDUOUS FOREST	OAGM2	PERENNIAL COVER CROPS
 EXISTING ALIGNMENT		FODM8-1	FRESH-MOIST POPLAR DECIDUOUS FOREST	SWCM1-2	WHITE CEDAR-CONIFER MINERAL
 ELC COMMUNITY BOUNDARIES		FOMM2-2	DRY-FRESH WHITE PINE-SUGAR MAPLE		CONIFEROUS FOREST
 INTERMITTENT			MIXED FOREST	SWMM1-1	WHITE CEDAR-HARDWOOD MINERAL
 PERMANENT					MIXED SWAMP
CVI_1	TRANSPORTATION	FOMM3-3	DRY-FRESH SUGAR MAPLE-HEMLOCK		
FODM3-1	DRY-FRESH POPLAR DECIDUOUS FOREST		MIXED FOREST	SWTM1-1	SPECKLED ALDER MINERAL DECIDUOUS
FODM4-1	DRY-FRESH BEECH DECIDUOUS FOREST	FOMM5-2	DRY-FRESH POPLAR MIXED FOREST		THICKET SWAMP
FODM5-2	DRY-FRESH SUGAR MAPLE-BEECH	FOMM10-2	FRESH-MOIST WHITE SPRUCE-HARDWOOD	SWTM2-1	RED-OSIER DOGWOOD MINERAL
	DECIDUOUS FOREST		MIXED FOREST		DECIDUOUS THICKET SWAMP

METRIC
 DIMENSIONS ARE IN METRES
 AND/OR MILLIMETERS
 UNLESS OTHERWISE SHOWN

FERGUSON LAKE ROAD		
		
EXISTING CONDITIONS		FIGURE 11



Legend

- WHIP-POOR-WILL SURVEY LOCATIONS
- MIGRATORY BREEDING BIRD SURVEY LOCATIONS
- EXISTING ALIGNMENT
- FISH HABITAT
- PROPOSED 60KPH ALIGNMENT
- BLOCKS (POTENTIAL ALIGNMENT SHIFT)

- CANDIDATE SIGNIFICANT WILDLIFE HABITAT
- INTERMITTENT WATERCOURSE
- PERMANENT WATERCOURSE
- UNEVALUATED WETLAND
- EVALUATED PROVINCIAL WETLAND
- EVALUATED OTHER WETLAND

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETERS
UNLESS OTHERWISE SHOWN

FERGUSON LAKE ROAD




FIGURE 12

CONSTRAINTS AND OPPORTUNITIES



Legend

- WHIP-POOR-WILL SURVEY LOCATIONS
- MIGRATORY BREEDING BIRD SURVEY LOCATIONS
- EXISTING ALIGNMENT
- FISH HABITAT
- PROPOSED 60KPH ALIGNMENT
- BLOCKS (POTENTIAL ALIGNMENT SHIFT)

- CANDIDATE SIGNIFICANT WILDLIFE HABITAT
- INTERMITTENT WATERCOURSE
- PERMANENT WATERCOURSE
- UNEVALUATED WETLAND
- EVALUATED PROVINCIAL WETLAND
- EVALUATED OTHER WETLAND

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETERS
UNLESS OTHERWISE SHOWN


FERGUSON LAKE ROAD


FIGURE 13


CONSTRAINTS AND OPPORTUNITIES





Legend


 WHIP-POOR-WILL SURVEY LOCATIONS


 MIGRATORY BREEDING BIRD SURVEY LOCATIONS


 EXISTING ALIGNMENT


 FISH HABITAT


 PROPOSED 60KPH ALIGNMENT


 BLOCKS (POTENTIAL ALIGNMENT SHIFT)


 CANDIDATE SIGNIFICANT WILDLIFE HABITAT

 INTERMITTENT WATERCOURSE

 PERMANENT WATERCOURSE



 UNEVALUATED WETLAND

 EVALUATED PROVINCIAL WETLAND

 EVALUATED OTHER WETLAND

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETERS
UNLESS OTHERWISE SHOWN

FERGUSON LAKE ROAD	<div>N</div> 
	FIGURE 14
CONSTRAINTS AND OPPORTUNITIES	

Service Layer Credits: Source: Esri, Maxar, GeoEye, Earthstar Geographics, CNES/Airbus DS, USDA, USGS, AeroGRID, IGN, and the GIS User Community
Source: Land Information Ontario (MNRF)

N.T.S

Legend

- WHIP-POOR-WILL SURVEY LOCATIONS
- MIGRATORY BREEDING BIRD SURVEY LOCATIONS
- EXISTING ALIGNMENT
- FISH HABITAT
- PROPOSED 60KPH ALIGNMENT
- BLOCKS (POTENTIAL ALIGNMENT SHIFT)

- CANDIDATE SIGNIFICANT WILDLIFE HABITAT
- INTERMITTENT WATERCOURSE
- PERMANENT WATERCOURSE
- UNEVALUATED WETLAND
- EVALUATED PROVINCIAL WETLAND
- EVALUATED OTHER WETLAND

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETERS
UNLESS OTHERWISE SHOWN

FERGUSON LAKE ROAD

FIGURE 15

CONSTRAINTS AND OPPORTUNITIES



Legend

- WHIP-POOR-WILL SURVEY LOCATIONS
- MIGRATORY BREEDING BIRD SURVEY LOCATIONS
- EXISTING ALIGNMENT
- FISH HABITAT
- PROPOSED 60KPH ALIGNMENT
- BLOCKS (POTENTIAL ALIGNMENT SHIFT)

- CANDIDATE SIGNIFICANT WILDLIFE HABITAT
- INTERMITTENT WATERCOURSE
- PERMANENT WATERCOURSE
- UNEVALUATED WETLAND
- EVALUATED PROVINCIAL WETLAND
- EVALUATED OTHER WETLAND

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETERS
UNLESS OTHERWISE SHOWN

FERGUSON LAKE ROAD



FIGURE 18

CONSTRAINTS AND OPPORTUNITIES



Legend

- WHIP-POOR-WILL SURVEY LOCATIONS
- MIGRATORY BREEDING BIRD SURVEY LOCATIONS
- EXISTING ALIGNMENT
- FISH HABITAT
- PROPOSED 60KPH ALIGNMENT
- BLOCKS (POTENTIAL ALIGNMENT SHIFT)

- CANDIDATE SIGNIFICANT WILDLIFE HABITAT
- INTERMITTENT WATERCOURSE
- PERMANENT WATERCOURSE
- UNEVALUATED WETLAND
- EVALUATED PROVINCIAL WETLAND
- EVALUATED OTHER WETLAND

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETERS
UNLESS OTHERWISE SHOWN

FERGUSON LAKE ROAD



CONSTRAINTS AND OPPORTUNITIES

N

FIGURE 19



Legend

- WHIP-POOR-WILL SURVEY LOCATIONS
- MIGRATORY BREEDING BIRD SURVEY LOCATIONS
- EXISTING ALIGNMENT
- FISH HABITAT
- PROPOSED 60KPH ALIGNMENT
- BLOCKS (POTENTIAL ALIGNMENT SHIFT)

- CANDIDATE SIGNIFICANT WILDLIFE HABITAT
- INTERMITTENT WATERCOURSE
- PERMANENT WATERCOURSE
- UNEVALUATED WETLAND
- EVALUATED PROVINCIAL WETLAND
- EVALUATED OTHER WETLAND

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETERS
UNLESS OTHERWISE SHOWN

FERGUSON LAKE ROAD




CONSTRAINTS AND OPPORTUNITIES


N


FIGURE 20





Legend


 WHIP-POOR-WILL SURVEY LOCATIONS


 MIGRATORY BREEDING BIRD SURVEY LOCATIONS


 EXISTING ALIGNMENT


 FISH HABITAT


 PROPOSED 60KPH ALIGNMENT


 BLOCKS (POTENTIAL ALIGNMENT SHIFT)


 CANDIDATE SIGNIFICANT WILDLIFE HABITAT

 INTERMITTENT WATERCOURSE

 PERMANENT WATERCOURSE

 UNEVALUATED WETLAND


 EVALUATED PROVINCIAL WETLAND

 EVALUATED OTHER WETLAND

METRIC

DIMENSIONS ARE IN METRES
AND/OR MILLIMETERS
UNLESS OTHERWISE SHOWN

FERGUSON LAKE
ROAD



CONSTRAINTS AND OPPORTUNITIES

N

FIGURE
21



TABLES



Table 1
Ferguson Lake Road Reconstruction
Species At Risk Summary

Common Name	Species Name	S Rank	Provincial Status	Habitat Requirements
Little Brown Bat	<i>Myotis lucifugus</i>	S4	Endangered	Roost in buildings or trees but often select attics, barns, or abandoned buildings.
Northern Long-eared Bat	<i>Myotis septentrionalis</i>	S3	Endangered	Northern long-eared bats are associated with boreal forests, choosing to roost under loose bark and in the cavities of trees. These bats hibernate from October or November to March or April, most often in caves or abandoned mines.
Tri-colored Bat	<i>Perimyotis subflavus</i>	S3?	Endangered	Found in a variety of forest habitats, often forming day roosts or maternity colonies in older forests and occasionally barns or other structures. The species forages over water and along streams and forests.
Eastern Small-footed Myotis	<i>Myotis leibii</i>	S2S3	Endangered	These bats can be found roosting in a variety of habitats ranging from rock outcrops, buildings, bridges, caves, mines, or hollow trees. Roost locations often change on a daily basis
American Ginseng	<i>Panax quinquefolius</i>	S2	Endangered	Typically found in rich, moist, well drained, and relatively mature deciduous forests dominated by Sugar Maple, White Ash, and American Basswood.
Butternut	<i>Juglans cinerea</i>	S3?	Endangered	Found alone or in small groups, in mixed hardwood stands or along fence lines or open fields / agricultural areas. Prefers moist well drained soil, and is rarely found on dry rocky soil.
Pale-bellied Frost Lichen	<i>Physconia subpallida</i>	S2	Endangered	Habitat includes the bark of hardwood trees such as White ash, Black walnut, American elm, and Ironwood; sensitive to pollution.
Bobolink	<i>Dolichonyx oryzivorus</i>	S4B	Threatened	Dense grasses or hayfields south of the boreal forest of Ontario, where they build their small nests on the ground. Feed off insects that are found in these grassy environments.
Blanding's Turtle	<i>Emydoidea blandingii</i>	S3	Threatened	Shallow water marshes, bogs, ponds or swamps, or coves in larger lakes with soft muddy bottoms and aquatic vegetation; basks on logs, stumps, or banks; surrounding natural habitat is important in summer as they frequently move from aquatic habitat to terrestrial habitats; hibernates in bogs.
Barn Swallow	<i>Hirundo rustica</i>	S4B	Threatened	Farmlands or rural areas; cliffs, caves, rock niches; buildings or other man-made structures for nesting; open country near body of water.
Eastern Meadowlark	<i>Sturnella magna</i>	S4B	Threatened	Moderately tall grasslands, pastures, hayfields, alfalfa fields, weedy borders of croplands, orchards, airports, roadsides, shrubby overgrown fields and any other open areas present. Commonly seen sitting on small trees, fence posts or shrubs.
Eastern Whip-poor-will	<i>Antrostomus vociferous</i>	S4B	Threatened	Dry, open, deciduous woodlands of small to medium trees; oak or beech with lots of clearing and shaded leaf-litter; wooded edges, forest clearings with little herbaceous growth; pine plantations; associated with >100 ha forests; may require 500 to 1000 ha to maintain population.
Eastern Wood-pewee	<i>Contopus virens</i>	S4B	Special Concern	Found in the mid-canopy layer of forest clearings and edges of deciduous and mixed forest. Most abundant in mature forest stands with little understory.
Snapping Turtle	<i>Chelydra serpentina</i>	S3	Special Concern	Permanent, semi-permanent fresh water; marshes, swamps or bogs; rivers and streams with soft muddy banks or bottoms; often uses soft soil or clean dry sand on south-facing slopes for nest sites; may nest at some distance from water; often hibernate together in groups in mud under water; home range size approx. 28ha.
Northern Map Turtle	<i>Graptemys geographica</i>	S3	Special Concern	Inhabits rivers and lakeshores where emergent rocks and fallen trees are present for the turtles to bask on. High-quality water that can support mollusc life is necessary for the females diet. In the winter, they select deep slow-moving sections of river to hibernate.
Wood Thrush	<i>Hylocichla mustelina</i>	S4B	Special Concern	Found in mature deciduous and mixed forest. Limited to moist stands with well-developed undergrowth and tall trees.
Golden-winged Warbler	<i>Vermivora chrysoptera</i>	S4B	Special Concern	Prefer to nest in areas with young shrubs surrounded by mature forest, including recently disturbed areas such as logged areas or utility corridors.
Canada Warbler	<i>Cardellina canadensis</i>	S4B	Special Concern	Found in a wide range of coniferous and deciduous forests, typically in forest types that are wet with a well developed dense shrub layer. Nests are often found on or near the ground.
Evening Grosbeak	<i>Coccothraustes vespertinus</i>	S4B	Special Concern	During the breeding season this species can be found in open, mature mixed forests dominated by fir species, White Spruce and/or Trembling Aspen. Outside of the breeding season, this species strongly depends on seed crops from fir and spruce.
Hill's Pondweed	<i>Potamogeton hillii</i>	S2S3	Special Concern	Typically found in slow-moving streams, ditches, ponds, lakes, and wetlands that are clear with alkaline waters.
Bald Eagle	<i>Haliaeetus leucocephalus</i>	S2N, S4B	Special Concern	Nest in a variety of habitats and forest types, almost always near a major lake or river where they do most of their hunting. They usually nest in large trees such as pine and poplar. During the winter, Bald Eagles sometimes congregate near open water such as the St. Lawrence River, or in places with a high deer population where carcasses might be found.

Table 3
Environmental Constraints Summary
Ferguson Lake Road

Feature	Location	Coordinates	Fish Species (MNRF)	Mitigation	Approvals / Comments	Information Source (Feature)
<i>Migratory Birds</i>	Throughout study limits			No vegetation clearing between early April and Late August.	No approvals anticipated if following mitigation.	Environment Canada
<i>Fish Habitat</i>	Station 7+865 / Unnamed tributary of Constant Creek	18T 352279, 5020052	D/S: Constant Creek: Central mudminnow, Johnny darter, Largemouth bass, Pumpkinseed	No in-water work between March 15 and July 15	If watercourse alteration, infilling, or culvert modifications including lengthening are to occur, review for potential DFO approvals.	Ainley / MNRF
	Station 6+875 / Adjacent to an unnamed tributary of Constant Creek	18T 353048, 5019505	D/S: Constant Creek: Central mudminnow, Johnny darter, Largemouth bass, Pumpkinseed	No in-water work between March 15 and July 15	If watercourse alteration, infilling, or culvert modifications including lengthening are to occur, review for potential DFO approvals.	Ainley / MNRF
	Station 6+020 / Unnamed tributary of Constant Creek	18T 353713, 5019007	D/S: Constant Creek: Central mudminnow, Johnny darter, Largemouth bass, Pumpkinseed	No in-water work between March 15 and July 15	If watercourse alteration, infilling, or culvert modifications including lengthening are to occur, review for potential DFO approvals.	Ainley / MNRF
	Station 5+718 / Roadside drainage to Constant Creek	18T 353699, 5018738	D/S: Constant Creek: Central mudminnow, Johnny darter, Largemouth bass, Pumpkinseed	No in-water work between March 15 and July 15	If watercourse alteration, infilling, or culvert modifications including lengthening are to occur, review for potential DFO approvals.	Ainley / MNRF
	Station 5+515 / Unnamed tributary of Constant Creek	18T 353883, 5018616	D/S: Constant Creek: Central mudminnow, Johnny darter, Largemouth bass, Pumpkinseed	No in-water work between March 15 and July 15	If watercourse alteration, infilling, or culvert modifications including lengthening are to occur, review for potential DFO approvals.	Ainley / MNRF
	Station 4+625 / Unnamed tributary of Ferguson Lake	18T 354524, 5018099	D/S Constant Lake: Banded killifish, Blackchin shiner, Blacknose shiner, Bluntnose minnow, Brook Sittkleback, Brown bullhead, Cisco, Common shiner, Emerald shiner, Fathead minnow, Iowa darter, Northern pike, Northern redbelly dace, Pumpkinseed, Rockbass, Smallmouth bass, Walleye, White sucker, Yellow perch	No in-water work between October 1 and July 15	If watercourse alteration, infilling, or culvert modifications including lengthening are to occur, review for potential DFO approvals.	Ainley / MNRF
	Station 4+000 / Roadside drainage	18T 354915, 5017705	N/A	No in-water work between March 15 and July 15	If watercourse alteration, infilling, or culvert modifications including lengthening are to occur, review for potential DFO approvals.	Ainley / MNRF
	Station 3+590 / Unnamed tributary of Ferguson Lake	18T 355298, 5017572	N/A	No in-water work between March 15 and July 15	If watercourse alteration, infilling, or culvert modifications including lengthening are to occur, review for potential DFO approvals.	Ainley / MNRF
<i>Environmentally Sensitive Areas</i>	Ferguson Lake Escarpment Candidate ANSI	Located on SW side of Ferguson Lake Road, extending from approximately 3+400 to 5+750			General avoidance if possible. No formal status of feature, but should discuss with MNRF.	MNRF
	Ferguson Lake PSW	Located on the northeast side of the road from approximately 5+260 - 5+330		Avoid intrusion. Erosion and sediment controls.	Avoid intrusion into PSW	

Environmental Constraints Summary
Ferguson Lake Road

Feature	Location	Coordinates	Fish Species (MNRF)	Mitigation	Approvals / Comments	Information Source (Feature)
	Deer Wintering Areas	Project limits falls along the western edge of a large deer wintering area which extends from approximately Kennely Mountain Road, east to Goshen and to north of Highway 132. Deer wintering area within project limits is identified as Stratum II.		Where possible vegetation removal should be minimized and the reconstructed roadway should be maintained within the existing alignment to limit the potential for habitat fragmentation, issues with access to habitat, and increased road mortality associated with the Stratum II deer wintering area.	General avoidance where possible. Should the preferred alignment require extensive vegetation removal then discussions with MNRF should be undertaken.	
SAR						
Turtles (Snapping and Blanding's)	Data Sensitivity prohibits release of this information			Avoid encroachment into wetlands where possible. If works are to occur along the granular shoulder, install temporary wildlife fencing prior to May 15 in any calendar year. Works should not alter water levels in adjacent wetlands between September 30 and April 1 in any calendar year.		Ainley / MNRF
Grassland Birds (Bobolink / Eastern meadowlark)	Data Sensitivity prohibits release of this information				Confirm approval requirements from MECP based on preferred alternative.	
Eastern Whip-poor-will	Data Sensitivity prohibits release of this information				Confirm approval requirements from MECP based on preferred alternative.	
Butternut	Data Sensitivity prohibits release of this information			Avoid Category 3 trees, and 25 m buffer to the extent possible.	Cat. 1 - No approvals necessary. Cat. 2 - Removal of up to 10 trees available under O.Reg. 242/08. Compensation plantings required (generally streamlined approval process). Cat. 3 - Removal of Cat. 3 trees will require a permit from MECP (6 months + duration)	Ainley / MNRF
American Ginseng	Data Sensitivity prohibits release of this information			Avoid areas with known population areas.	MECP permit required for encroachment or removal of isolated populations.	Ainley / MNRF
Bats	Data Sensitivity prohibits release of this information			Vegetation removal should occur outside of the period of April 1 to September 30.	Confirm approval requirements from MECP based on preferred alternative.	

APPENDIX A

Correspondence and Background Data

David Davison

From: Trute, Lauren (MNRF) <Lauren.Trute@ontario.ca>
Sent: September-08-20 2:12 PM
To: David Davison
Cc: 'Samantha Wilson'; 'Scott Reynolds'
Subject: RE: Information Request - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska

Hi David,

Both ends of the road are outside of stratum II (wintering area, non-core), while the middle portion is in stratum II. There is a screen capture below. Blue is stratum II, pink is stratum I (core). The significance in many ways will depend on the nature of the project. Upgrades to an existing road v.s. new road, fragmentation, access, road mortality, etc. The project area is outside of core deer yard, which is the more significant feature.

Does that help with your assessment?

Lauren



From: David Davison <davison@ainleygroup.com>
Sent: September-03-20 3:31 PM
To: Trute, Lauren (MNRF) <Lauren.Trute@ontario.ca>
Cc: 'Samantha Wilson' <wilson.s@ainleygroup.com>; 'Scott Reynolds' <reynolds@ainleygroup.com>
Subject: RE: Information Request - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska

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Hi Lauren,

I'm just following up on some emails below between yourself and Sam Wilson. I have noted on Renfrew County mapping that much of our project limits falls within a deer wintering area. The Significant Wildlife Habitat Mitigation Support Tool notes that not all mapped deer yards are considered significant wildlife habitat and advises contacting MNRF to determine if the area of interest is significant. Are you able to tell me if the project limits fall within a significant deer wintering area?

Thanks very much for your help,
Dave

David Davison, B.Sc. (Env)
Environmental Planner



Ainley Graham & Associates Limited
139 Front Street, Unit 100
Belleville, Ontario, K8N 2Y6
Tel: (613) 966-4243 ext. 109
Fax: (613) 966-1168
Cell: (613) 242-0283
davison@ainleygroup.com

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From: Samantha Wilson [<mailto:wilson.s@ainleygroup.com>]
Sent: July-16-20 8:35 AM
To: 'Scott Reynolds' <reynolds@ainleygroup.com>; David Davison <davison@ainleygroup.com>
Subject: FW: Information Request - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska

Fyi.

Sam Wilson, B.Sc.
Environmental Technician



Ainley Graham & Associates Limited
2724 Fenton Road
Ottawa, Ontario, K1T 3T7
Tel: (613) 822-1052 ext. 223
Fax: (613) 822-1573
Cell: (613) 848-5888
wilson.s@ainleygroup.com

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From: Trute, Lauren (MNRF) [<mailto:Lauren.Trute@ontario.ca>]
Sent: July-15-20 8:57 PM
To: Samantha Wilson
Cc: Trute, Lauren (MNRF)
Subject: Information Request - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska

Hi Sam,

Here is the available information for the stream crossings and other features along Ferguson Lake Road. I liked your table a lot, however didn't have a lot to share for most sites, so I thought the map with the screen captures might be more useful to you. The first screen cap shows wetlands, and the second has fisheries information.

- Ferguson Lake is Cold Water – species list is shown below on the second screen capture
- Constant Creek, which flows into Ferguson Lake is warm water, with Central Mudminnow, Johnny Darter, Largemouth bass and Pumpkinseed
- Between sites 3 & 4 there is a purple circle with a fish on it – this was a survey point that was electrofished in 2009. Central Mudminnow, Johnny Darter, Largemouth Bass and Pumpkinseed were caught.
- McNulty Lake, to the north, has Northern Pike and Rock Bass
- Pat's Lake was once stocked with Brook Trout (see attached survey from 1971), but does not have habitat to sustain a population.

For timing, the tributary at #6, at Ferguson Lake is presumed to be mixed cold water (with bass) - no in-water work Oct 1 – July 15. The remainder are warm/cool with bass – no in-water work March 15 – July 15.

Other items of interest (see first screen capture):

- Ferguson lake Escarpment and Constant Creek Swamp and Fen (to the east) are both candidate Life Science ANSIs
- Ferguson Lake PSW is adjacent to the site
- The wetland on McNulty's Lake is a Locally Significant Wetland

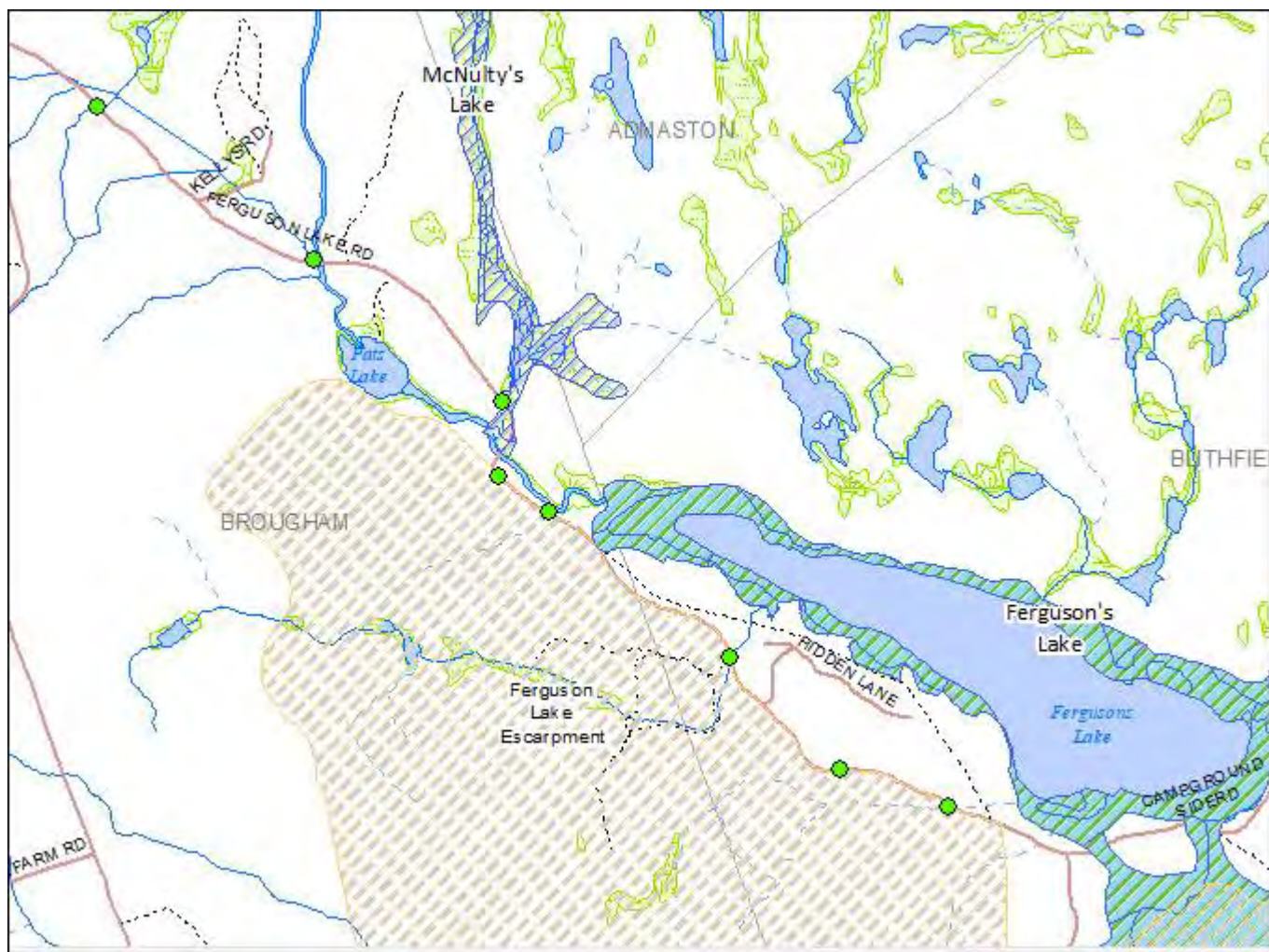
If you haven't already done so, I would highly recommend contacting MECP as soon as possible for SAR information, as there several SAR species within the study site, and that will also inform SWH and will influence timing of work.

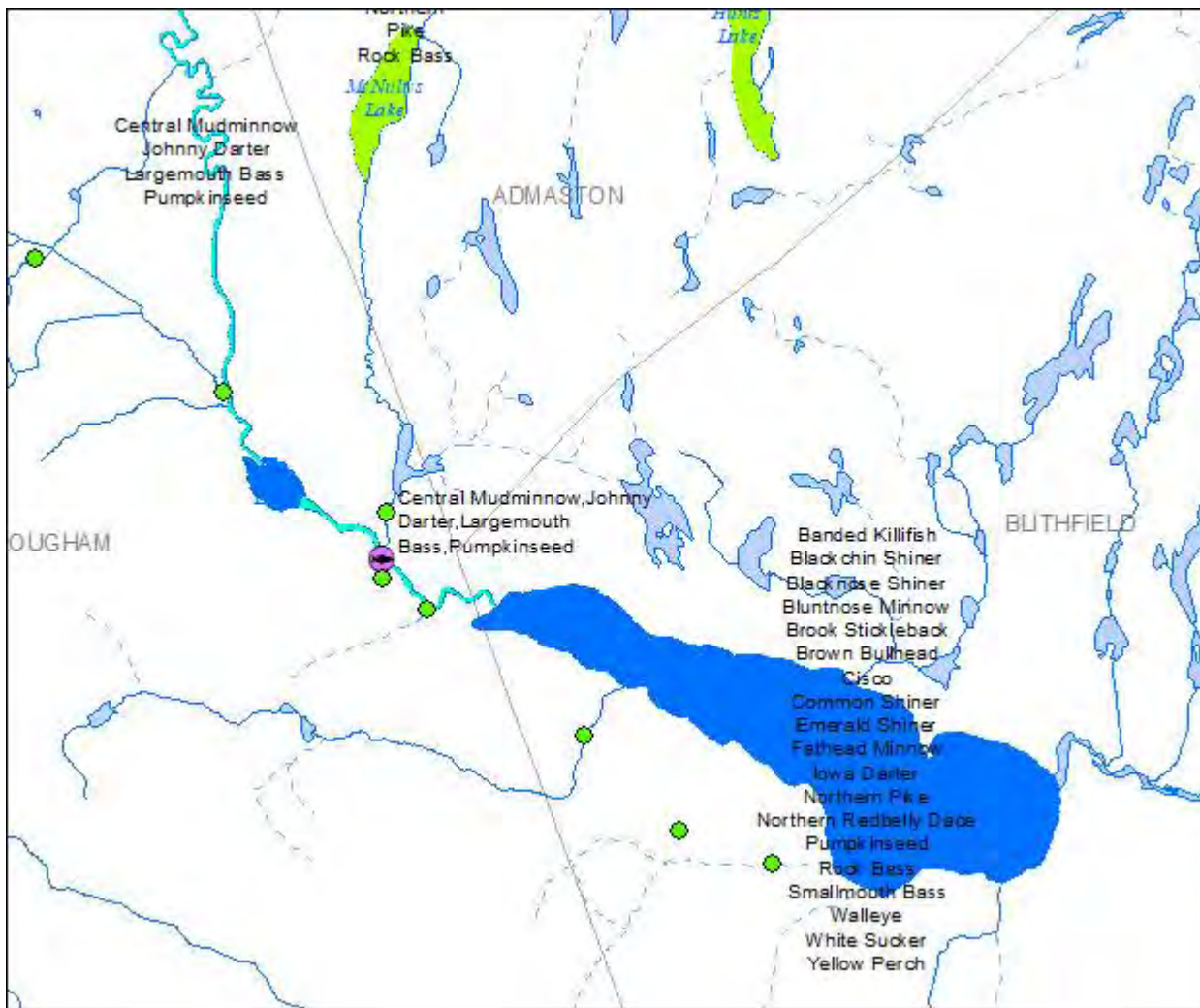
We are still working from home, so access to some files is currently limited, however if you require the information on the PSWs and the candidate ANSI's I will do my best to get that to you in some format.

I have also attached MNRF's new (2018) info request guide. My apologies for not sending earlier, but I was unaware it had been developed until today. Long story short, the process is to direct consultants/proponents to available online resources first (i.e. LIO, FishONLine) for scoping, and to do the info request after to fill in any missing information or sort out nuances of specific projects. From what I have learned, this is happening in most districts now, so just a heads up for you as well if you haven't encountered it yet.

Please let me know if you need anything further for this file.

Thanks,
Lauren





From: Samantha Wilson <wilson.s@ainleygroup.com>

Sent: July-10-20 1:15 PM

To: Trute, Lauren (MNRF) <Lauren.Trute@ontario.ca>

Cc: 'Scott Reynolds' <reynolds@ainleygroup.com>; dan.hagan@greenview-environmental.ca; David Davison <davison@ainleygroup.com>

Subject: Information Request - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska

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Hi Lauren,

We are working with Greenview Environmental to complete a Natural Heritage and Environmental Impact Study on Ferguson Lake Road from Kennelly Mountain Road to 200 m south of Campground Side Road.

We have determined that there are eight (8) locations within the study area which are interpreted to represent fish habitat. We are requesting any available fisheries information on these eight locations, which I have identified in the attached table. We also request any additional information available from MNRF within the identified study limits pertaining to natural heritage features such as ANSI's, PSW's, significant woodlands, significant wildlife habitat, etc.

Please let me know if you require any additional information or if you have any questions.

Thanks,

Sam Wilson, B.Sc.
Environmental Technician



Ainley Graham & Associates Limited
2724 Fenton Road
Ottawa, Ontario, K1T 3T7
Tel: (613) 822-1052 ext. 223
Fax: (613) 822-1573
Cell: (613) 848-5888
wilson.s@ainleygroup.com

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From: Trute, Lauren (MNRF) <Lauren.Trute@ontario.ca>

Sent: June 29, 2020 10:24 PM

To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Wagner, Kristen (MNRF)

<Kristen.Wagner@ontario.ca>

Cc: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Celine Boutin (Greenview)

<celine.boutin@greenview-environmental.ca>

Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Hello Dan et al,

I just want to flag for you the importance of connecting with MECP regarding species at risk as soon as possible, especially if there will any field work involved. There are 2 SAR plant species (Butternut and Panax – please note data sensitivity for that species) confirmed along and immediately adjacent to the road, along with Blanding's turtle.

Given that the work is proposed to begin next year, do you have any additional information on water crossings (type, location, sizing), and anything else that will help me better provide you with the information you need (fisheries, SWH, etc).

Thanks,
Lauren

From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>

Sent: June-29-20 1:58 PM

To: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>

Cc: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Celine Boutin (Greenview)

<celine.boutin@greenview-environmental.ca>; Trute, Lauren (MNRF) <Lauren.Trute@ontario.ca>

Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

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Good afternoon, Kristen –

Best of luck with everything! I'm looking forward to working with Lauren and any other representatives from the MNRF Pembroke District Office on this project.

Please contact me at any time, and be well.

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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From: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>
Sent: Monday, June 29, 2020 1:25 PM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Cc: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>; Trute, Lauren (MNRF) <Lauren.Trute@ontario.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Thank you so much for working with us on this one, Dan. I have cc'd Lauren Trute on this email. She is the Management Biologist who will be reviewing this file.

At this time I still do not have a name for my replacement; if things do not change, you might see comments coming directly from Lauren.

Thanks again!

Kristen Wagner, B.Sc.
District Planner

Ministry of Natural Resources & Forestry | Pembroke District
31 Riverside Dr.
Pembroke, ON K8A 8R6

kristen.wagner@ontario.ca | Phone: (613) 732-5522 | Fax: (613) 732-2972



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From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Sent: June-25-20 1:05 PM
To: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>
Cc: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Good afternoon, Ms. Wagner –

Thanks for reaching out to us about this project. My name is Dan Hagan, and I will be performing the function of Project Manager on this project for the Township of Greater Madawaska.

First off - I want to wish you the best of luck as you head toward maternity leave – congratulations!

With respect to the timing on the Ontario Ministry of Natural Resources and Forestry's (MNRF) review and response regarding our project, we can 100% work with you. We expect that the MNRF's input on this project to be one of the most important voices of all the agencies involved. With that in mind, would it be possible for the MNRF Pembroke Office to provide us with comments for the end of July 2020?

Whatever the case, myself, Greenview, and the Township of Greater Madawaska are prepared to work with you and your colleagues at the MNRF Pembroke Office in any way we can.

You can reach me via this email address at your convenience.

Thank you again, and we look forward to speaking with you further.

Sincerely,

Dan Hagan, P.Geol.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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From: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>

Sent: June-25-20 11:55 AM

To: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>

Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Thank you, Celine. I will have this reviewed.

I'm not sure if I should be speaking with you about this, or if there is someone you can direct me to. I am currently in the process of wrapping up files before I start mat leave (mid-next week). As of now I don't have a replacement.

Is there any leniency on July 6 as a hard deadline for comments? Our Ministry is still working remotely, so it has caused some delays in our ability to review.

Please let me know the best person to speak to about this, as we are interested in providing comments – my situation just makes it a little tricky.

Thanks!

Kristen Wagner, B.Sc.

District Planner

Ministry of Natural Resources & Forestry | Pembroke District

31 Riverside Dr.
Pembroke, ON K8A 8R6

kristen.wagner@ontario.ca | Phone: (613) 732-5522 | Fax: (613) 732-2972



"As part of providing [accessible customer service](#), please let me know if you have any accommodation needs or require communication supports or alternate formats."

From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>

Sent: June-22-20 1:58 PM

To: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>

Cc: Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Version: 2016.0.8048 / Virus Database: 4793/15886 - Release Date: 08/14/18

Internal Virus Database is out of date.

David Davison

From: NHIC-Requests (MNRF) <nhicrequests@ontario.ca>
Sent: July-13-20 11:13 AM
To: David Davison
Cc: NHIC-Requests (MNRF)
Subject: RE: 20501-1 - Ferguson Lake Road - Data Access Request
Attachments: NHICReport_MakeAMap_18UR5120_etc.xlsx; _Certification_.htm

Hello David,
My sincere apologies for not responding to your inquiry sooner!!

You are likely aware that the NHIC makes available our data on the Make A Map Natural Heritage Areas online mapping application. Currently there is a glitch with the NHIC data displaying on MakeAMap, Land Information Ontario is working on resolving the problem. I have attached the results that should be showing for the 1km squares overlapping your project area. This level of information is suitable for preliminary site screening.

While we do have a process for clients to request licensed access to the underlying data, this process pre-dates the ESA moving to MECP, and currently is not well suited to servicing all preliminary site screening/local landuse projects in the province (previously as you likely know, it was the MNRF Districts within our ministry that helped with local site screening). The license agreements are also generally with the primary proponent, as they have the 'need to know'. If your client is the township or county, they can apply for on-going access for their jurisdictional area. While we do not yet have a license agreement with the Township of Greater Madawaska, we do have a license agreement with Renfrew County.

Is your client a municipality?
Sincerely,
Tanya Taylor
Ontario Natural Heritage Information Centre
Ministry of Natural Resources and Forestry
300 Water Street, 2nd Floor North
Peterborough, ON K9J 3C7
NHICrequests@ontario.ca | 705.755.2159

Please Note: As part of providing [accessible customer service](#), please let me know if you have any accommodation needs or require communication supports or alternate formats.

From: David Davison <davison@ainleygroup.com>
Sent: July 7, 2020 9:46 AM
To: NHIC-Requests (MNRF) <nhicrequests@ontario.ca>
Subject: 20501-1 - Ferguson Lake Road - Data Access Request

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Good Morning,

Please find the attached data access request form for a portion of Ferguson Lake Road in the Township of Greater Madawaska, within the County of Renfrew. The project limits extend from Kennelly Mountain Road to 200 m south of Campground Side Road.

Regards,

David Davison, B.Sc. (Env)
Environmental Planner



Ainley Graham & Associates Limited
139 Front Street, Unit 100
Belleville, Ontario, K8N 2Y6
Tel: (613) 966-4243 ext. 109
Fax: (613) 966-1168
Cell: (613) 242-0283
davison@ainleygroup.com

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NHIC Data

To work further with this data select the content and copy it into your own word or excel documents.

OGF ID	Element Type	Common Name	Scientific Name	SRank	SARO Status	COSEWIC Status	ATLAS NAD83 IDENT	COMMENTS
1092852	NATURAL AREA	Ferguson's Lake					18UR5816	
1092852	NATURAL AREA	CONSTANT CREEK SWAMP AND FEN CONSERVATION RESERVE					18UR5816	
1092852	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5816	
1092853	NATURAL AREA	Constant Creek Swamp and Fens					18UR5817	
1092853	NATURAL AREA	Ferguson's Lake					18UR5817	
1092853	NATURAL AREA	CONSTANT CREEK SWAMP AND FEN CONSERVATION RESERVE					18UR5817	
1092853	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5817	
1092854	NATURAL AREA	Constant Creek Swamp and Fens					18UR5818	
1092854	NATURAL AREA	Ferguson's Lake					18UR5818	
1092854	NATURAL AREA	CONSTANT CREEK SWAMP AND FEN CONSERVATION RESERVE					18UR5818	
1092854	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5818	
1092845	NATURAL AREA	Constant Creek Swamp and Fens					18UR5719	
1092845	NATURAL AREA	Ferguson's Lake					18UR5719	
1092845	NATURAL AREA	CONSTANT CREEK SWAMP AND FEN CONSERVATION RESERVE					18UR5719	
1092845	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5719	
1092855	NATURAL AREA	Constant Creek Swamp and Fens					18UR5819	
1092855	NATURAL AREA	Ferguson's Lake					18UR5819	
1092855	NATURAL AREA	CONSTANT CREEK SWAMP AND FEN CONSERVATION RESERVE					18UR5819	
1092855	SPECIES	Snapping Turtle		S4	SC	SC	18UR5819	

OGF ID	Element Type	Common Name	Scientific Name	SRank	SARO Status	COSEWIC Status	ATLAS NAD83 IDENT	COMMENTS
			Chelydra serpentina					
1092946	NATURAL AREA	Constant Creek Swamp and Fens					18UR5820	
1092946	NATURAL AREA	Ferguson's Lake					18UR5820	
1092946	NATURAL AREA	CONSTANT CREEK SWAMP AND FEN CONSERVATION RESERVE					18UR5820	
1092946	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5820	
1092946	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5820	
1092937	NATURAL AREA	Ashdad Fens					18UR5721	
1092947	NATURAL AREA	Ashdad Fens					18UR5821	
1092947	NATURAL AREA	CONSTANT CREEK SWAMP AND FEN CONSERVATION RESERVE					18UR5821	
1092947	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5821	
1092830	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5614	
1092830	SPECIES	Eastern Wood-pewee	Contopus virens	S4B	SC	SC	18UR5614	
1092840	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5714	
1092840	SPECIES	Eastern Wood-pewee	Contopus virens	S4B	SC	SC	18UR5714	
1092811	NATURAL AREA	Ferguson Lake Escarpment					18UR5415	
1092821	NATURAL AREA	Ferguson Lake Escarpment					18UR5515	
1092821	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5515	
1092831	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5615	
1092841	NATURAL AREA	Constant Creek Swamp and Fens					18UR5715	
1092841	NATURAL AREA	Ferguson's Lake					18UR5715	
1092841	NATURAL AREA	CONSTANT CREEK SWAMP AND FEN CONSERVATION RESERVE					18UR5715	
1092841	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5715	
1092802	NATURAL AREA						18UR5316	

OGF ID	Element Type	Common Name	Scientific Name	SRank	SARO Status	COSEWIC Status	ATLAS NAD83 IDENT	COMMENTS
1092812	NATURAL AREA	Ferguson Lake Escarpment					18UR5416	
1092812	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5416	
1092822	NATURAL AREA	Constant Creek Swamp and Fens					18UR5516	
1092822	NATURAL AREA	Ferguson Lake Escarpment					18UR5516	
1092822	NATURAL AREA	Ferguson's Lake					18UR5516	
1092822	SPECIES	Harpoon Clubtail	Phanogomphus descriptus	S3			18UR5516	
1092822	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5516	
1092822	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5516	
1092832	NATURAL AREA	Constant Creek Swamp and Fens					18UR5616	
1092832	NATURAL AREA	Ferguson's Lake					18UR5616	
1092832	NATURAL AREA	CONSTANT CREEK SWAMP AND FEN CONSERVATION RESERVE					18UR5616	
1092832	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5616	
1092832	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5616	
1092842	NATURAL AREA	Constant Creek Swamp and Fens					18UR5716	
1092842	NATURAL AREA	Ferguson's Lake					18UR5716	
1092842	NATURAL AREA	CONSTANT CREEK SWAMP AND FEN CONSERVATION RESERVE					18UR5716	
1092842	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5716	
1092803	NATURAL AREA	Ferguson Lake Escarpment					18UR5317	
1092813	NATURAL AREA	Ferguson Lake Escarpment					18UR5417	
1092813	SPECIES	Butternut	Juglans cinerea	S2?	END	END	18UR5417	
1092813	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5417	
1092823	NATURAL AREA	Constant Creek Swamp and Fens					18UR5517	
1092823	NATURAL AREA	Ferguson Lake Escarpment					18UR5517	

OGF ID	Element Type	Common Name	Scientific Name	SRank	SARO Status	COSEWIC Status	ATLAS NAD83 IDENT	COMMENTS
1092823	NATURAL AREA	Ferguson's Lake					18UR5517	
1092823	SPECIES	Harpoon Clubtail	Phanogomphus descriptus	S3			18UR5517	
1092823	SPECIES	Butternut	Juglans cinerea	S2?	END	END	18UR5517	
1092823	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5517	
1092823	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5517	
1092833	NATURAL AREA	Constant Creek Swamp and Fens					18UR5617	
1092833	NATURAL AREA	Ferguson's Lake					18UR5617	
1092833	NATURAL AREA	CONSTANT CREEK SWAMP AND FEN CONSERVATION RESERVE					18UR5617	
1092833	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5617	
1092833	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5617	
1092843	NATURAL AREA	Constant Creek Swamp and Fens					18UR5717	
1092843	NATURAL AREA	Ferguson's Lake					18UR5717	
1092843	NATURAL AREA	CONSTANT CREEK SWAMP AND FEN CONSERVATION RESERVE					18UR5717	
1092843	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5717	
1092804	NATURAL AREA	Ferguson Lake Escarpment					18UR5318	
1092804	NATURAL AREA	McNulty's Lake					18UR5318	
1092804	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5318	
1092814	NATURAL AREA	Ferguson Lake Escarpment					18UR5418	
1092814	NATURAL AREA	Ferguson's Lake					18UR5418	
1092814	SPECIES	Butternut	Juglans cinerea	S2?	END	END	18UR5418	
1092814	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5418	
1092824	NATURAL AREA	Ferguson's Lake					18UR5518	
1092824	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5518	
1092834	NATURAL AREA	Ferguson's Lake					18UR5618	
1092834	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5618	
1092834	WILDLIFE CONCENTRATION AREA	Mixed Wader Nesting Colony		SNR			18UR5618	

OGF ID	Element Type	Common Name	Scientific Name	SRank	SARO Status	COSEWIC Status	ATLAS NAD83 IDENT	COMMENTS
1092844	NATURAL AREA	Constant Creek Swamp and Fens					18UR5718	
1092844	NATURAL AREA	Ferguson's Lake					18UR5718	
1092844	NATURAL AREA	CONSTANT CREEK SWAMP AND FEN CONSERVATION RESERVE					18UR5718	
1092844	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5718	
1092844	WILDLIFE CONCENTRATION AREA	Mixed Wader Nesting Colony		SNR			18UR5718	
1092805	NATURAL AREA	Ferguson Lake Escarpment					18UR5319	
1092805	NATURAL AREA	McNulty's Lake					18UR5319	
1092805	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5319	
1092815	NATURAL AREA	McNulty's Lake					18UR5419	
1092815	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5419	
1092896	NATURAL AREA	McNulty's Lake					18UR5320	
1092896	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5320	
1092897	NATURAL AREA	McNulty's Lake					18UR5321	
1092897	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5321	
1092907	NATURAL AREA	McNulty's Lake					18UR5421	
1092907	SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC	18UR5421	
1092771	WILDLIFE CONCENTRATION AREA	Colonial Waterbird Nesting Area		SNR			18UR5015	
1092771	SPECIES	Arrowhead Spiketail	Cordulegaster obliqua	S2			18UR5015	
1092771	WILDLIFE CONCENTRATION AREA	Mixed Wader Nesting Colony		SNR			18UR5015	
1092781	WILDLIFE CONCENTRATION AREA	Colonial Waterbird Nesting Area		SNR			18UR5115	
1092781	SPECIES	Arrowhead Spiketail	Cordulegaster obliqua	S2			18UR5115	
1092781	SPECIES	Hill's Pondweed	Potamogeton hillii	S2S3	SC	SC	18UR5115	
1092781	SPECIES	Pale-bellied Frost Lichen	Physconia subpallida	S3	END	END	18UR5115	
1092781	WILDLIFE CONCENTRATION AREA	Mixed Wader Nesting Colony		SNR			18UR5115	

OGF ID	Element Type	Common Name	Scientific Name	SRank	SARO Status	COSEWIC Status	ATLAS NAD83 IDENT	COMMENTS
1092791	SPECIES	Arrowhead Spiketail	Cordulegaster obliqua	S2			18UR5215	
1092772	WILDLIFE CONCENTRATION AREA	Colonial Waterbird Nesting Area		SNR			18UR5016	
1092772	SPECIES	Arrowhead Spiketail	Cordulegaster obliqua	S2			18UR5016	
1092772	WILDLIFE CONCENTRATION AREA	Mixed Wader Nesting Colony		SNR			18UR5016	
1092782	WILDLIFE CONCENTRATION AREA	Colonial Waterbird Nesting Area		SNR			18UR5116	
1092782	SPECIES	Arrowhead Spiketail	Cordulegaster obliqua	S2			18UR5116	
1092782	WILDLIFE CONCENTRATION AREA	Mixed Wader Nesting Colony		SNR			18UR5116	
1092792	SPECIES	Arrowhead Spiketail	Cordulegaster obliqua	S2			18UR5216	
1092773	WILDLIFE CONCENTRATION AREA	Colonial Waterbird Nesting Area		SNR			18UR5017	
1092773	WILDLIFE CONCENTRATION AREA	Mixed Wader Nesting Colony		SNR			18UR5017	
1092773	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5017	
1092773	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5017	
1092773	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5017	
1092783	WILDLIFE CONCENTRATION AREA	Colonial Waterbird Nesting Area		SNR			18UR5117	
1092783	WILDLIFE CONCENTRATION AREA	Mixed Wader Nesting Colony		SNR			18UR5117	
1092783	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5117	
1092783	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5117	
1092793	NATURAL AREA	Ferguson Lake Escarpment					18UR5217	
1092793	SPECIES	Horned Clubtail	Arigomphus cornutus	S3			18UR5217	
1092774	WILDLIFE CONCENTRATION AREA	Colonial Waterbird Nesting Area		SNR			18UR5018	
1092774	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5018	

OGF ID	Element Type	Common Name	Scientific Name	SRank	SARO Status	COSEWIC Status	ATLAS NAD83 IDENT	COMMENTS
1092774	WILDLIFE CONCENTRATION AREA	Mixed Wader Nesting Colony		SNR			18UR5018	
1092774	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5018	
1092774	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5018	
1092774	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5018	
1092774	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5018	
1092774	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5018	
1092774	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5018	
1092774	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5018	
1092784	WILDLIFE CONCENTRATION AREA	Colonial Waterbird Nesting Area		SNR			18UR5118	
1092784	WILDLIFE CONCENTRATION AREA	Mixed Wader Nesting Colony		SNR			18UR5118	
1092784	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5118	
1092784	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5118	
1092784	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5118	
1092794	NATURAL AREA	Ferguson Lake Escarpment					18UR5218	
1092770	WILDLIFE CONCENTRATION AREA	Colonial Waterbird Nesting Area		SNR			18UR5014	
1092770	SPECIES	Arrowhead Spiketail	Cordulegaster obliqua	S2			18UR5014	
1092770	WILDLIFE CONCENTRATION AREA	Mixed Wader Nesting Colony		SNR			18UR5014	
1092780	WILDLIFE CONCENTRATION AREA	Colonial Waterbird Nesting Area		SNR			18UR5114	
1092780	SPECIES	Arrowhead Spiketail	Cordulegaster obliqua	S2			18UR5114	
1092780	WILDLIFE CONCENTRATION AREA	Mixed Wader Nesting Colony		SNR			18UR5114	
1092790	SPECIES	Arrowhead Spiketail	Cordulegaster obliqua	S2			18UR5214	
1092775		Colonial Waterbird Nesting Area		SNR			18UR5019	

OGF ID	Element Type	Common Name	Scientific Name	SRank	SARO Status	COSEWIC Status	ATLAS NAD83 IDENT	COMMENTS
	WILDLIFE CONCENTRATION AREA							
1092775	WILDLIFE CONCENTRATION AREA	Mixed Wader Nesting Colony		SNR			18UR5019	
1092775	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5019	
1092775	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5019	
1092775	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5019	
1092785	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5119	
1092795	NATURAL AREA	Ferguson Lake Escarpment					18UR5219	
1092795	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5219	
1092866	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5020	
1092876	SPECIES	Eastern Milksnake	Lampropeltis triangulum	S4	NAR	SC	18UR5120	
1092876	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5120	
1092886	SPECIES	Butternut	Juglans cinerea	S2?	END	END	18UR5220	
1092886	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5220	
1092867	SPECIES	Barn Swallow	Hirundo rustica	S4B	THR	THR	18UR5021	
1092867	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5021	
1092877	SPECIES	Eastern Meadowlark	Sturnella magna	S4B	THR	THR	18UR5121	
1092877	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5121	
1092887	RESTRICTED SPECIES	RESTRICTED SPECIES	RESTRICTED SPECIES				18UR5221	

Element Type	Common Name	Scientific Name	SRank	SARO Status	COSEWIC Status
RESTRICTED SPECIES	American Ginseng	Panax quinquefolius	S2	END	END
SPECIES	Barn Swallow	Hirundo rustica	S4B	THR	THR
SPECIES	Butternut	Juglans cinerea	S2?	END	END
SPECIES	Eastern Meadowlark	Sturnella magna	S4B	THR	THR
RESTRICTED SPECIES	American Ginseng	Panax quinquefolius	S2	END	END
SPECIES	Butternut	Juglans cinerea	S2?	END	END
SPECIES	Eastern Meadowlark	Sturnella magna	S4B	THR	THR
RESTRICTED SPECIES	American Ginseng	Panax quinquefolius	S2	END	END
SPECIES	Butternut	Juglans cinerea	S2?	END	END
SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC
SPECIES	Blanding's Turtle	Emydoidea blandingii	S3	THR	END
SPECIES	Butternut	Juglans cinerea	S2?	END	END
SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC
SPECIES	Butternut	Juglans cinerea	S2?	END	END
SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC
RESTRICTED SPECIES	American Ginseng	Panax quinquefolius	S2	END	END
SPECIES	Butternut	Juglans cinerea	S2?	END	END
RESTRICTED SPECIES	American Ginseng	Panax quinquefolius	S2	END	END
SPECIES	Butternut	Juglans cinerea	S2?	END	END
SPECIES	Snapping Turtle	Chelydra serpentina	S4	SC	SC















































[« Start Over](#)

Bird Observations

Date Range: [Change Date](#)
Jan-Dec, 1900-2020

[Change Location](#) **Calabogie Peaks Resort**

Updated ~1 day(s) ago.

67 species (+4 other taxa)	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Canada Goose												
Mallard												
Hooded Merganser												
Common Merganser												
Ruffed Grouse												
Wild Turkey												
Rock Pigeon												
Ruby-throated Hummingbird												
Ring-billed Gull												
Herring Gull												
gull sp.												
Common Loon												
Great Blue Heron												
Turkey Vulture												
Osprey												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Bald Eagle												
Broad-winged Hawk												
Great Horned Owl												
Yellow-bellied Sapsucker												
Downy Woodpecker												
Hairy Woodpecker												
Downy/Hairy Woodpecker												
Pileated Woodpecker												

67 species (+4 other taxa)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

[Northern Flicker](#)[American Kestrel](#)[Merlin](#)[Eastern Wood-Pewee](#)[Eastern Phoebe](#)[Great Crested Flycatcher](#)[Eastern Kingbird](#)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

[Philadelphia Vireo](#)[Red-eyed Vireo](#)[Blue Jay](#)[American Crow](#)[Common Raven](#)[Black-capped Chickadee](#)[Barn Swallow](#)[Golden-crowned Kinglet](#)[Red-breasted Nuthatch](#)[White-breasted Nuthatch](#)[Brown Creeper](#)[House Wren](#)[Winter Wren](#)[European Starling](#)[Gray Catbird](#)

Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----

[Swainson's Thrush](#)[American Robin](#)[Bohemian Waxwing](#)[Cedar Waxwing](#)[Evening Grosbeak](#)

Common/Hoary Redpoll

[Red Crossbill](#)[Pine Siskin](#)[American Goldfinch](#)

finch sp.

[Snow Bunting](#)[Chipping Sparrow](#)[Dark-eyed Junco](#)



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Species list in taxonomic order for square 18UR51

All species

Number of rows of data displayed below: 23.

Species #	Common Name	# of Records	Earliest Yr _____	Latest Yr
1	Blanding's Turtle	2	1989	2019
3	Midland Painted Turtle	9	1986	2017
4	Northern Map Turtle	10	2009	2009
6	Snapping Turtle	4	1986	2001
12	Eastern Gartersnake	12	1985	2019
14	Eastern Ribbonsnake	1	2006	2006
18	Milksnake	4	2009	2018
19	Northern Watersnake	3	1985	1990
21	Red-bellied Snake	8	1977	2018
23	Ring-necked Snake	2	1982	1982
24	Smooth Greensnake	1	1985	1985
25	American Bullfrog	2	1984	2001
27	Gray Treefrog	25	1984	2009
28	Green Frog	11	1981	2009
29	Mink Frog	11	1977	1988
30	Northern Leopard Frog	14	1981	2009
32	Spring Peeper	37	1984	2009
34	Wood Frog	13	1984	2009
35	American Toad	8	1984	2009
38	Blue-spotted Salamander	4	1984	1987
40	Red-spotted Newt	9	1985	2015
41	Eastern Red-backed Salamander	1	1988	1988
48	Spotted Salamander	6	1986	1987

[TEA home page](#) | [Main atlas page](#)



Species list in taxonomic order for square 18UR52

All species

Number of rows of data displayed below: 15.

Species #	Common Name	# of Records	Earliest Yr _____	Latest Yr
1	Blanding's Turtle	3	2013	2018
3	Midland Painted Turtle	5	1990	2018
4	Northern Map Turtle	6	2009	2009
6	Snapping Turtle	8	1984	2017
12	Eastern Gartersnake	8	1972	2015
18	Milksnake	2	1989	1989
19	Northern Watersnake	1	1990	1990
21	Red-bellied Snake	1	1973	1973
24	Smooth Greensnake	1	1989	1989
27	Gray Treefrog	12	2004	2009
28	Green Frog	4	1972	2004
30	Northern Leopard Frog	4	1986	1996
32	Spring Peeper	10	1996	2004
34	Wood Frog	4	1996	1996
35	American Toad	5	2004	2004

[TEA home page](#) | [Main atlas page](#)

Atlas summary: Species list for square 18UR51

Region	Square	Species
24	18UR51	Canada Goose
24	18UR51	Wood Duck
24	18UR51	American Black Duck
24	18UR51	Mallard
24	18UR51	Hooded Merganser
24	18UR51	Ruffed Grouse
24	18UR51	Wild Turkey
24	18UR51	Common Loon
24	18UR51	American Bittern
24	18UR51	Great Blue Heron
24	18UR51	Green Heron
24	18UR51	Turkey Vulture
24	18UR51	Northern Harrier
24	18UR51	Sharp-shinned Hawk
24	18UR51	Cooper's Hawk
24	18UR51	Red-shouldered Hawk
24	18UR51	Broad-winged Hawk
24	18UR51	Red-tailed Hawk
24	18UR51	Virginia Rail
24	18UR51	Spotted Sandpiper
24	18UR51	Common Snipe
24	18UR51	American Woodcock
24	18UR51	Mourning Dove
24	18UR51	Black/Yellow-billed Cuckoo
24	18UR51	Black-billed Cuckoo
24	18UR51	Barred Owl
24	18UR51	Ruby-throated Hummingbird
24	18UR51	Belted Kingfisher
24	18UR51	Yellow-bellied Sapsucker
24	18UR51	Downy Woodpecker
24	18UR51	Hairy Woodpecker
24	18UR51	Black-backed Woodpecker
24	18UR51	Northern Flicker
24	18UR51	Pileated Woodpecker
24	18UR51	Olive-sided Flycatcher
24	18UR51	Eastern Wood-Pewee
24	18UR51	Alder Flycatcher
24	18UR51	Least Flycatcher
24	18UR51	Eastern Phoebe
24	18UR51	Great Crested Flycatcher
24	18UR51	Eastern Kingbird
24	18UR51	Blue-headed Vireo
24	18UR51	Warbling Vireo
24	18UR51	Red-eyed Vireo
24	18UR51	Blue Jay

24	18UR51	American Crow
24	18UR51	Common Raven
24	18UR51	Tree Swallow
24	18UR51	Cliff Swallow
24	18UR51	Barn Swallow
24	18UR51	Black-capped Chickadee
24	18UR51	Red-breasted Nuthatch
24	18UR51	White-breasted Nuthatch
24	18UR51	Brown Creeper
24	18UR51	House Wren
24	18UR51	Winter Wren
24	18UR51	Golden-crowned Kinglet
24	18UR51	Ruby-crowned Kinglet
24	18UR51	Eastern Bluebird
24	18UR51	Veery
24	18UR51	Swainson's Thrush
24	18UR51	Hermit Thrush
24	18UR51	Wood Thrush
24	18UR51	American Robin
24	18UR51	Gray Catbird
24	18UR51	European Starling
24	18UR51	Cedar Waxwing
24	18UR51	Golden-winged Warbler
24	18UR51	Nashville Warbler
24	18UR51	Yellow Warbler
24	18UR51	Chestnut-sided Warbler
24	18UR51	Magnolia Warbler
24	18UR51	Black-throated Blue Warbler
24	18UR51	Yellow-rumped Warbler
24	18UR51	Black-throated Green Warbler
24	18UR51	Blackburnian Warbler
24	18UR51	Pine Warbler
24	18UR51	Black-and-white Warbler
24	18UR51	American Redstart
24	18UR51	Ovenbird
24	18UR51	Northern Waterthrush
24	18UR51	Mourning Warbler
24	18UR51	Common Yellowthroat
24	18UR51	Canada Warbler
24	18UR51	Chipping Sparrow
24	18UR51	Field Sparrow
24	18UR51	Savannah Sparrow
24	18UR51	Song Sparrow
24	18UR51	Swamp Sparrow
24	18UR51	White-throated Sparrow
24	18UR51	Dark-eyed Junco
24	18UR51	Scarlet Tanager

24	18UR51	Rose-breasted Grosbeak
24	18UR51	Indigo Bunting
24	18UR51	Bobolink
24	18UR51	Red-winged Blackbird
24	18UR51	Eastern Meadowlark
24	18UR51	Common Grackle
24	18UR51	Brown-headed Cowbird
24	18UR51	Baltimore Oriole
24	18UR51	Purple Finch
24	18UR51	Red Crossbill
24	18UR51	White-winged Crossbill
24	18UR51	Pine Siskin
24	18UR51	American Goldfinch
24	18UR51	Evening Grosbeak

Atlas summary: Species list for square 18UR52

Region	Square	Species
24	18UR52	Canada Goose
24	18UR52	Wood Duck
24	18UR52	Blue-winged Teal
24	18UR52	Ring-necked Duck
24	18UR52	Hooded Merganser
24	18UR52	Ruffed Grouse
24	18UR52	Wild Turkey
24	18UR52	Common Loon
24	18UR52	Pied-billed Grebe
24	18UR52	American Bittern
24	18UR52	Great Blue Heron
24	18UR52	Green Heron
24	18UR52	Turkey Vulture
24	18UR52	Sharp-shinned Hawk
24	18UR52	Northern Goshawk
24	18UR52	Red-shouldered Hawk
24	18UR52	Broad-winged Hawk
24	18UR52	Red-tailed Hawk
24	18UR52	American Kestrel
24	18UR52	Virginia Rail
24	18UR52	Killdeer
24	18UR52	Rock Pigeon
24	18UR52	Common Snipe
24	18UR52	American Woodcock
24	18UR52	Mourning Dove
24	18UR52	Black-billed Cuckoo
24	18UR52	Great Horned Owl
24	18UR52	Barred Owl
24	18UR52	Ruby-throated Hummingbird
24	18UR52	Belted Kingfisher
24	18UR52	Yellow-bellied Sapsucker
24	18UR52	Downy Woodpecker
24	18UR52	Hairy Woodpecker
24	18UR52	Northern Flicker
24	18UR52	Pileated Woodpecker
24	18UR52	Eastern Wood-Pewee
24	18UR52	Alder Flycatcher
24	18UR52	Least Flycatcher
24	18UR52	Eastern Phoebe
24	18UR52	Great Crested Flycatcher
24	18UR52	Eastern Kingbird
24	18UR52	Yellow-throated Vireo
24	18UR52	Blue-headed Vireo
24	18UR52	Warbling Vireo
24	18UR52	Red-eyed Vireo

24	18UR52	Gray Jay
24	18UR52	Blue Jay
24	18UR52	American Crow
24	18UR52	Common Raven
24	18UR52	Tree Swallow
24	18UR52	Cliff Swallow
24	18UR52	Barn Swallow
24	18UR52	Black-capped Chickadee
24	18UR52	Red-breasted Nuthatch
24	18UR52	White-breasted Nuthatch
24	18UR52	House Wren
24	18UR52	Winter Wren
24	18UR52	Golden-crowned Kinglet
24	18UR52	Veery
24	18UR52	Swainson's Thrush
24	18UR52	Hermit Thrush
24	18UR52	Wood Thrush
24	18UR52	American Robin
24	18UR52	Gray Catbird
24	18UR52	Brown Thrasher
24	18UR52	European Starling
24	18UR52	Cedar Waxwing
24	18UR52	Nashville Warbler
24	18UR52	Yellow Warbler
24	18UR52	Chestnut-sided Warbler
24	18UR52	Magnolia Warbler
24	18UR52	Cape May Warbler
24	18UR52	Black-throated Blue Warbler
24	18UR52	Yellow-rumped Warbler
24	18UR52	Black-throated Green Warbler
24	18UR52	Blackburnian Warbler
24	18UR52	Pine Warbler
24	18UR52	Black-and-white Warbler
24	18UR52	American Redstart
24	18UR52	Ovenbird
24	18UR52	Northern Waterthrush
24	18UR52	Common Yellowthroat
24	18UR52	Canada Warbler
24	18UR52	Chipping Sparrow
24	18UR52	Field Sparrow
24	18UR52	Savannah Sparrow
24	18UR52	Song Sparrow
24	18UR52	Swamp Sparrow
24	18UR52	White-throated Sparrow
24	18UR52	Dark-eyed Junco
24	18UR52	Scarlet Tanager
24	18UR52	Rose-breasted Grosbeak

24	18UR52	Indigo Bunting
24	18UR52	Bobolink
24	18UR52	Red-winged Blackbird
24	18UR52	Eastern Meadowlark
24	18UR52	Common Grackle
24	18UR52	Brown-headed Cowbird
24	18UR52	Baltimore Oriole
24	18UR52	Purple Finch
24	18UR52	House Finch
24	18UR52	White-winged Crossbill
24	18UR52	Pine Siskin
24	18UR52	American Goldfinch
24	18UR52	Evening Grosbeak
24	18UR52	House Sparrow

APPENDIX B

Photographic Log



Photograph 1 – ELC Community FODM4-1 – Dry-Fresh Beech Deciduous Forest (June 9, 2020).



Photograph 2 – ELC Community MEMM3 – Dry-Fresh Mixed Meadow (July 8, 2020).



Photograph 3 – ELC Community FODM8-1 – Fresh-Moist Poplar Deciduous Forest (July 8, 2020).



Photograph 4 – ELC Community SWCM1-2 – White Cedar – Conifer Mineral Coniferous Swamp (June 9, 2020).



Photograph 5 – ELC Community FOMM5-2 – Dry-Fresh Poplar Mixed Forest (June 9, 2020).



Photograph 6 – ELC Community FODM5-2 – Dry-Fresh Sugar Maple – Beech Deciduous Forest (June 9, 2020).



Photograph 7 – ELC Community FOMM2-2 – Dry-Fresh White Pine – Sugar Maple Mixed Forest (July 8, 2020).



Photograph 8 – ELC Community SWMM1-1 – White Cedar – Hardwood Mineral Mixed Swamp (June 9, 2020).



Photograph 9 – ELC Community FODM3-1 – Dry-Fresh Poplar Deciduous Forest (June 9, 2020).



Photograph 10 – ELC Community FOMM3-3 – Dry-Fresh Sugar Maple – Hemlock Mixed Forest (June 9, 2020).



Photograph 11 – ELC Community SWTM2-1 – Red-osier Dogwood Mineral Deciduous Thicket Swamp (June 9, 2020).



Photograph 12 – ELC Community CVI_1 – Transportation (June 9, 2020).



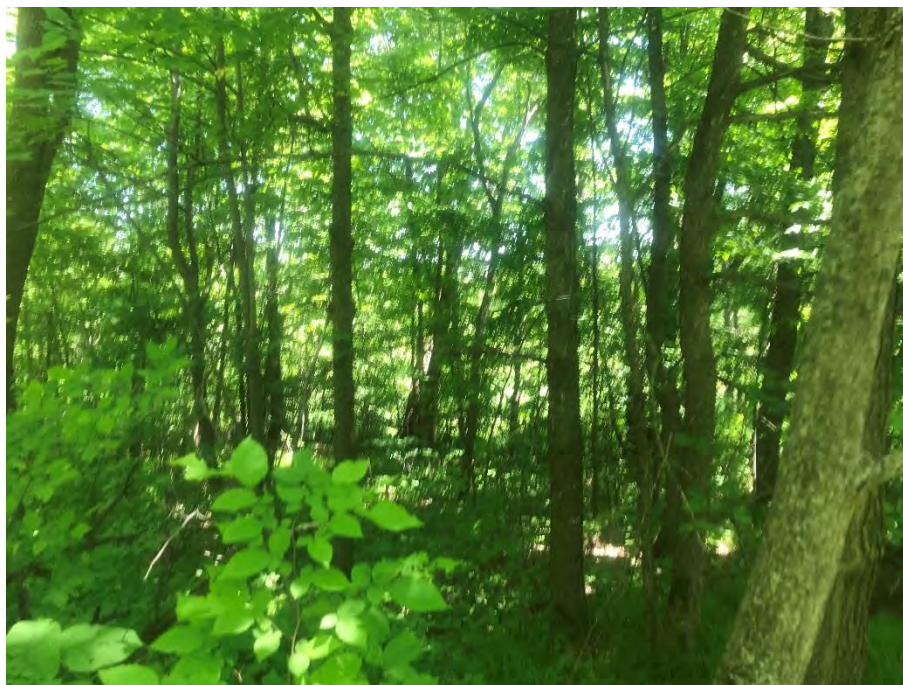
Photograph 13 – ELC Community OAGM2 – Perennial Cover Crops (June 9, 2020).



Photograph 14 – ELC Community SWTM1-1 – Speckled Alder Mineral Deciduous Thicket Swamp (June 9, 2020).



Photograph 15 – ELC Community FOMM10-2 – Fresh-Moist White Spruce – Hardwood Mixed Forest (July 8, 2020).



Photograph 16 – ELC Community FODM5-6 – Dry-Fresh Sugar Maple – Basswood Deciduous Forest (June 9, 2020).



Photograph 17 – Culvert CV-00454 (Stn 3+590) – Culvert inlet and upstream channel (June 4, 2020).



Photograph 18 – Culvert CV-00454 (Stn 3+590) – Culvert outlet and downstream channel (June 4, 2020).



Photograph 19 – Culvert CV-00455 (Stn 4+000) – Culvert outlet and adjacent channel (June 4, 2020).



Photograph 20 – Culvert CV-00456 (Stn 4+625) – Upstream channel (June 4, 2020).



Photograph 21 – Culvert CV-00456 (Stn 4+625) – Culvert outlet and downstream channel (June 4, 2020).



Photograph 22 – Culvert CV-00460 (Stn 5+515) – Culvert outlet and adjacent riparian habitat (June 4, 2020).



Photograph 23 – Culvert CV-00461 (Stn 5+718) – Culvert outlet and downstream channel (June 4, 2020).



Photograph 24 – Culvert CV-00463 (Stn 6+020) – Upstream channel (June 4, 2020).



Photograph 25 – Culvert CV-00463 (Stn 6+020) – Downstream channel (June 4, 2020).



Photograph 26 – Watercourse Adjacent to Ferguson Lake Road (Stn 6+875) – Channel leading to Constant Creek (June 4, 2020).



Photograph 27 – Culvert CV-00468 (Stn 6+875) – Upstream channel (June 8, 2020).



Photograph 28 – Culvert CV-00468 (Stn 6+875) – Culvert outlet and downstream channel (June 8, 2020).

APPENDIX C

Vegetation Species List

Appendix C - Vegetation Species List
Natural Heritage Study
Ferguson Lake Road Reconstruction
Township of Greater Madawaska, Renfrew County

Scientific Name	Common Name	SARA	SARO	S Rank	N Rank	G Rank	Exotic Status	Coefficient of Conservation	Coefficient of Wetness	CVL 1	OAGM2	FODM4-1	MEMM3	FODM8-1	SWCM1-2
<i>Abies balsamea</i>	Balsam Fir			S5	N5	G5		5	-3	x				x	x
<i>Acer pensylvanicum</i>	Striped Maple			S4	N5	G5		7	-3			x			
<i>Acer saccharinum</i>	Silver Maple			S5	N5	G5		5	-3						
<i>Acer saccharum</i>	Sugar Maple			S5	N5	G5		3	5	x		x		x	
<i>Acer spicatum</i>	Mountain Maple			S5	N5	G5		6	-3						
<i>Achillea millefolium</i>	Common Yarrow			SNA	NNR	G5	SE5?		3		x				
<i>Actaea pachypoda</i>	White Baneberry			S5	N5	G5		6	5			x			x
<i>Adiantum pedatum</i>	Northern Maidenhair Fern			S5	N5	G5		7	3						
<i>Alisma triviale</i>	Northern Water-plantain			S5	N5	G5		1	-5						x
<i>Alnus incana</i> sp. <i>rugosa</i>	Speckled Alder			S5	N5	G515		6	-3						x
<i>Amelanchier laevis</i>	Smooth Serviceberry			S5	N5	G5		5	5						
<i>Amphicarpaea bracteata</i>	American Hog-peanut			S5	N5	G5		4	0			x			
<i>Anemonastrum canadense</i>	Canada Anemone			S5	N5	G5		3	-3	x		x	x		x
<i>Antennaria neglecta</i>	Field Pussytoes			S5	N5	G5		3	5						
<i>Apocynum androsaemifolium</i>	Spreading Dogbane			S5	N5	G5		3	-5	x	x		x		
<i>Aquilegia canadensis</i>	Red Columbine			S5	N5	G5		5	3			x			
<i>Aralia nudicaulis</i>	Wild Sarsaparilla			S5	N5	G5		4	3						x
<i>Arctium minus</i>	Common Burdock			SNA	NNA	GNR	SE5		3			x			
<i>Aruncus dioicus</i>	Common Goatsbeard			SNA	N5	G5	SE1		3		x		x		
<i>Asclepias syriaca</i>	Common Milkweed			S5	N5	G5		0	5	x		x	x		
<i>Asteraceae</i> spp.	Asters	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Betula alleghaniensis</i>	Yellow Birch			S5	N5	G5		6	0						x
<i>Betula papyrifera</i>	Paper Birch			S5	N5	G5		2	3	x	x	x		x	x
<i>Bromus inermis</i>	Smooth Brome			SNA	NNA	G5	SE5		5	x	x				
<i>Calamagrostis canadensis</i>	Bluejoint Reedgrass			S5	N5	G5		4	-5		x				
<i>Carex stricta</i>	Tussock Sedge			S5	N5	G5		4	-5						
<i>Carex vaginata</i>	Sheathed Sedge			S5	N5	G5		10	-5						
<i>Carya cordiformis</i>	Bitternut Hickory			S5	N5	G5		6	0						
<i>Caulophyllum thalictroides</i>	Blue Cohosh			S5	N5	G5		5	5			x			
<i>Coclea tubifera</i>	Bulbous Water-hemlock			S5	N5	G5		5	-5						x
<i>Cirsium arvense</i>	Canada Thistle			SNA	NNA	G5	SE5		3				x		
<i>Clematis virginiana</i>	Virginia Clematis			S5	N5	G5		3	0		x	x			x
<i>Clintonia borealis</i>	Yellow Clintonia			S5	N5	G5		7	0						
<i>Convolvulus arvensis</i>	Field Bindweed			SNA	NNA	GNR	SE5		5	x			x		
<i>Copis trifolia</i>	Goldthread			S5	N5	G5		7	-3						
<i>Cornus racemosa</i>	Gray Dogwood			S5	N5	G5		2	0					x	
<i>Cornus sericea</i>	Red-osier Dogwood			S5	N5	G5		2	-3	x		x		x	x
<i>Corylus cornuta</i>	Beaked Hazelnut			S5	N5	G5		5	3			x		x	
<i>Craegus</i> spp.	Hawthorn sp.	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<i>Cypripedium parviflorum</i>	Yellow Lady's-slipper			S5	N5	G5		5	0			x		x	
<i>Dactylis glomerata</i>	Orchard Grass			SNA	NNA	GNR	SE5		5		x	x			
<i>Daucus carota</i>	Wild Carrot			SNA	NNA	GNR	SE5		5	x	x				
<i>Dirca palustris</i>	Eastern Leatherwood			S4	N4	G4		7	0			x			
<i>Dryopteris marginalis</i>	Marginal Wood Fern			S5	N5	G5		5	5			x			
<i>Echium vulgare</i>	Common Viper's Bugloss			SNA	NNA	G5	SE5		5	x					
<i>Equisetum fluviatile</i>	Water Horsetail			S5	N5	G5		7	-5				x		x
<i>Equisetum hyemale</i>	Common Scouring-rush			S5	N5	G5		2	0			x	x	x	x
<i>Equisetum palustre</i>	Marsh Horsetail			S5	N5	G5		10	-3						
<i>Equisetum pratense</i>	Meadow Horsetail			S5	N5	G5		8	-3		x	x	x		
<i>Equisetum scirpoides</i>	Dwarf Scouring-rush			S5	N5	G5		7	0						
<i>Equisetum sylvaticum</i>	Woodland Horsetail			S5	N5	G5		7	-3						
<i>Erigeron strigosus</i>	Rough Fleabane			S5	N5	G5		4	3			x		x	x
<i>Erythronium americanum</i>	Yellow Trout-lily			S5	N5	G5		5	5			x			
<i>Eurybia macrophylla</i>	Large-leaved Aster			S5	N5	G5		5	5	x	x				
<i>Eutrochium maculatum</i>	Spotted Joe Pye Weed			S5	N5	G5		3	-5						
<i>Fagus grandifolia</i>	American Beech			S4	N5	G5		6	3			x			
<i>Fragaria virginiana</i>	Wild Strawberry			S5	N5	G5		2	3	x		x	x		
<i>Fraxinus americana</i>	White Ash			S4	N5	G5		4	3			x	x	x	
<i>Fraxinus nigra</i>	Black Ash			S3	N5	G5		3	-5			x			x
<i>Fraxinus pennsylvanica</i>	Red Ash			S4	N5	G5		7	-3	x	x			x	
<i>Galium mollugo</i>	Smooth Bedstraw			SNA	NNA	GNR	SE5		5		x				
<i>Galium palustre</i>	Common Marsh Bedstraw			S5	N5	G5		5	-5						x
<i>Galium triflorum</i>	Three-flowered Bedstraw			S5	N5	G5		4	3			x	x		
<i>Glyceria striata</i>	Fowl Managrass			S5	N5	G5		3	-5						x
<i>Gymnocarpium dryopteris</i>	Common Oak Fern			S5	N5	G5		7	3						x
<i>Hepatica acutiloba</i>	Sharp-lobed Hepatica			S5	N5	G5		8	5						
<i>Hydrocharis morsus-ranae</i>	European Frog-bit			SNA	NNA	GNR	SE5		-5						x
<i>Hydotesmum glutinosum</i>	Large Tick-trefoil			S4	N4N5	G5		6	5			x			
<i>Hypericum perforatum</i>	Common St. John's-wort			SNA	NNA	G-TNR	SE5		5			x			
<i>Impatiens capensis</i>	Spotted Jewelweed			S5	N5	G5		4	-3						x
<i>Juglans cinerea</i>	Butternut	END	END	S2?	N2	G3		6	3			x	x		
<i>Juncus tenuis</i>	Path Rush			S5	N5	G5		0	0						
<i>Juniperus horizontalis</i>	Creeping Juniper			S5	N5	G5		10	3	x		x		x	
<i>Laportea canadensis</i>	Canada Wood Nettle			S5	N5	G5		6	-3						
<i>Leucanthemum vulgare</i>	Oxeye Daisy			SNA	NNA	GNR	SE5		5		x			x	
<i>Lithospermum officinale</i>	European Gromwell			SNA	NNA	GNR	SE5		5					x	
<i>Lonicera canadensis</i>	Canada Fly Honeysuckle			S5	N5	G5		6	3			x		x	
<i>Lycopus americanus</i>	American Water-horehound			S5	N5	G5		4	-5						
<i>Lysimachia borealis</i>	Northern Starflower			S5	N5	G5		6	0						
<i>Lysimachia ciliata</i>	Fringed Yellow Loosestrife			S5	N5	G5		4	-3						
<i>Lythrum salicaria</i>	Purple Loosestrife			SNA	NNA	G5	SE5		-5						
<i>Maianthemum canadense</i>	Wild Lily-of-the-valley			S5	N5	G5		5	3			x			
<i>Maianthemum stellatum</i>	Star-flowered False Solomon's Seal			S5	N5	G5		6	0						
<i>Matteuccia struthiopteris</i>	Ostrich Fern			S5	N5	G5		5	3						
<i>Menilictus albus</i>	White Sweet-clover			SNA	NNA	G5	SE5		3	x	x				x
<i>Mentha canadensis</i>	Canada Mint			S5	N5	G5		5	-3			x			
<i>Mitchella repens</i>	Partridgeberry			S5	N5	G5		6	3						
<i>Mitella diphylla</i>	Two-leaved Mitrewort			S5	N5	G5		5	3						
<i>Mitella nuda</i>	Naked Mitrewort			S5	N5	G5		6	-3						
<i>Myosotis arvensis</i>	Field Forget-me-not			SNA	NNA	GNR	SE4		3						x
<i>Nabalus albus</i>	White Rattlesnakeroot			S5	N5	G5		6	3			x			
<i>Onoclea sensibilis</i>	Sensitive Fern			S5	N5	G5		4	-3						x
<i>Osmunda regalis</i>	Royal Fern			S5	N5	G5		7	-5						
<i>Osmundastrum cinnamomeum</i>	Cinnamon Fern			S5	N5	G5		7	-3			x			
<i>Ostrya virginiana</i>	Eastern Hop-hornbeam			S5	N5	G5		4	3						
<i>Oxalis stricta</i>	Upright Yellow Wood-sorrel			S5	N5	G5		0	3		x	x			
<i>Parthenocissus quinquefolia</i>	Virginia Creeper			S4?	N4?	G5		6	3	x	x	x		x	
<i>Pastinaca sativa</i>	Wild Parsnip			SNA	NNA	GNR	SE5		5		x	x			
<i>Phalaris arundinacea</i>	Reed Canarygrass			S5	NNR	G5TNR		0	-3	x	x				
<i>Picea glauca</i>	White Spruce			S5	N5	G5		6	-3		x				
<i>Pilosella aurantiaca</i>	Orange Hawkweed			SNA	NNA	GNR	SE5		5		x		x		
<i>Pilosella caespitosa</i>	Meadow Hawkweed			SNA	NNA	GNR	SE5		5		x				
<i>Pinus resinosa</i>	Red Pine			S5	N5	G5		8	3		x				
<i>Pinus strobus</i>	Eastern White Pine			S5	N5	G5		4	3		x		x	x	
<i>Pinus sylvestris</i>	Scots Pine			SNA	NNA	GNR	SE5		4						
<i>Populus balsamifera</i>	Balsam Poplar			S5	NNR	G5		4	-3	x	x			x	x
<i>Populus grandidentata</i>	Large-toothed Aspen			S5	N5	G5		5	5	x					
<i>Populus tremuloides</i>	Trembling Aspen			S5	N5	G5		2	0		x	x	x	x	
<i>Potentilla recta</i>	Sulphur Cinquefoil			SNA	NNA	GNR	SE5		5				x		
<i>Prunus serotina</i>	Black Cherry			S5	N5	G5		3	3						
<i>Prunus virginiana</i>	Chokecherry			S5	N5	G5		2	3	x		x		x	
<i>Pteridium aquilinum</i>	Bracken Fern			S5	N5	G5		2	3			x			
<i>Quercus rubra</i>	Northern Red Oak			S5	N5	G5		6	3	x		x	x	x	x
<i>Ranunculus abortivus</i>	Kidney-leaved Buttercup			S5	N5	G5		2	0			x			
<i>Ranunculus acris</i>	Common Buttercup			SNA	NNA	G5		1	3		x	x		x	
<i>Rhus typhina</i>	Staghorn Sumac			S5	N5	G5		2	0		x			x	
<i>Ribes cynosbati</i>	Eastern Prickly Gooseberry			S5	N5	G5		4	3				x	x	
<i>Ribes lacustre</i>	Bristly Black Currant			S5	N5	G5		7	-3			x			x
<i>Rosa acicularis</i>	Prickly Rose			S5	N5	G5		5	3	x					
<i>Rosa blanda</i>	Smooth Rose			S5	N5	G5		3	3						
<i>Rosa rugosa</i>	Rugosa Rose			SNA	NNA	GNR	SE1		3	x					
<i>Rubus occidentalis</i>	Black Raspberry			S5	N5	G5		2	5	x			x		
<i>Rubus odoratus</i>	Purple-flowering Raspberry			S5	N5	G5		3	5			x			
<i>Rudbeckia triloba</i>	Brown-eyed Susan			SNA	NNA	G5	SE4		3	x	x	x			
<i>Salix amygdaloides</i>	Peach-leaved Willow			S5	N5	G5		6	-3						
<i>Sambucus canadensis</i>	Common Elderberry			S5	N5	G5		5	-3						x
<i>Scirpus microcarpus</i>	Red-tinged Bulrush			S5	N5	G5									

Appendix C - Vegetation Species List
Natural Heritage Study
Ferguson Lake Road Reconstruction
Township of Greater Madawaska, Renfrew County

Scientific Name	Common Name	SARA	SARO	S Rank	N Rank	G Rank	Exotic Status	Coefficient of Conservation	Coefficient of Wetness	CVI. 1	OAGM2	FODM4-1	MEMM3	FODM8-1	SWCM1-2
<i>Taraxacum officinale</i>	Common Dandelion			SNA	N5	G5	SE5		3		x	x			x
<i>Thalictrum dioicum</i>	Early Meadow-rue			S5	N5	G5		6	3						
<i>Thalictrum pubescens</i>	Tall Meadow-rue			S5	N5	G5		5	-3						
<i>Thelypteris palustris</i>	Marsh Fern			S5	N5	G5		5	-3						x
<i>Thuja occidentalis</i>	Eastern White Cedar			S5	N5	G5		4	-3	x		x			x
<i>Tilia americana</i>	Basswood			S5	N5	G5		4	3	x		x	x	x	x
<i>Toxicodendron radicans</i>	Poison Ivy			S5	N4	G5T5		2	0	x		x		x	x
<i>Trifolium pratense</i>	Red Clover			SNA	NNA	GNR	SE5		3	x	x				
<i>Trillium cernuum</i>	Nodding Trillium			S5	N5	G5		8	0			x			
<i>Trillium erectum</i>	Red Trillium			S5	N5	G5		6	3						
<i>Trillium grandiflorum</i>	White Trillium			S5	N5	G5		5	3			x			
<i>Tsuga canadensis</i>	Eastern Hemlock			S5	N5	G5		7	3			x			
<i>Tussilago farfara</i>	Coltsfoot			SNA	NNA	GNR	SE5		3						x
<i>Typha latifolia</i>	Broad-leaved Cattail			S5	N5	G5		1	-5						x
<i>Ulmus americana</i>	White Elm			S5	N5	G4		3	-3	x		x	x	x	
<i>Verbascum thapsus</i>	Common Mullein			SNA	NNA	GNR	SE5		5			x			
<i>Veronica officinalis</i>	Common Speedwell			SNA	NNA	G5	SE5		5						
<i>Veronica serpyllifolia</i>	Thyme-leaved Speedwell			SNA	N5	G5	SE5?		0				x		
<i>Vicia cracca</i>	Tufted Vetch			SNA	NNA	GNR	SE5		5	x	x	x	x	x	x
<i>Vitis aestivalis</i>	Summer Grape			S4	N4	G5		7	3			x			
<i>Vitis riparia</i>	Riverbank Grape			S5	N5	G5		0	0	x		x	x		
<i>Zanthoxylum americanum</i>	Common Prickly-ash			S5	N5	G5		3	3						

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Natural Heritage Study
Ferguson Lake Road Reconstruction
Township of Greater Madawaska, Renfrew County

Scientific Name	Common Name	SARA	SARO	S Rank	N Rank	G Rank	Exotic Status	Coefficient of Conservation	Coefficient of Wetness	FOMM5-2	FODM5-2	FOMM3-2	SWMM1-1	FODM3-1	FOMM3-3
<i>Abies balsamea</i>	Balsam Fir			S5	N5	G5		5	-3	x		x			
<i>Acer pensylvanicum</i>	Striped Maple			S4	N5	G5		7	-3			x		x	x
<i>Acer saccharinum</i>	Silver Maple			S5	N5	G5		5	-3						
<i>Acer saccharum</i>	Sugar Maple			S5	N5	G5		3			x	x	x	x	x
<i>Acer spicatum</i>	Mountain Maple			S5	N5	G5		6	-3					x	
<i>Achillea millefolium</i>	Common Yarrow			SNA	NNR	G5	SE5?		3						
<i>Actaea pachypoda</i>	White Baneberry			S5	N5	G5		6	5					x	x
<i>Adiantum pedatum</i>	Northern Maidenhair Fern			S5	N5	G5		7	3		x		x		x
<i>Alisma triviale</i>	Northern Water-plantain			S5	N5	G5		1	-5					x	x
<i>Alnus incana</i> ssp. <i>rugosa</i>	Speckled Alder			S5	N5	G515		6	-3						
<i>Amelanchier laevis</i>	Smooth Serviceberry			S5	N5	G5		5	5						
<i>Amphicarpaea bracteata</i>	American Hog-peanut			S5	N5	G5		4	0						
<i>Anemonastrum canadense</i>	Canada Anemone			S5	N5	G5		3	-3						
<i>Antennaria neglecta</i>	Field Pussytoes			S5	N5	G5		3	5						
<i>Apocynum androsaemifolium</i>	Spreading Dogbane			S5	N5	G5		3	-5						
<i>Aquilegia canadensis</i>	Red Columbine			S5	N5	G5		5	3						
<i>Aralia nudicaulis</i>	Wild Sarsaparilla			S5	N5	G5		4	3					x	
<i>Arctium minus</i>	Common Burdock			SNA	NNA	GNR	SE5		3						
<i>Aruncus dioicus</i>	Common Goatsbeard			SNA	N5	G5	SE1		3						
<i>Asclepias syriaca</i>	Common Milkweed			S5	N5	G5		0	5						
<i>Asteraceae</i> spp.	Asters			-	-	-	-	-	-						
<i>Betula alleghaniensis</i>	Yellow Birch			S5	N5	G5		6	0				x		
<i>Betula papyrifera</i>	Paper Birch			S5	N5	G5		2	3	x	x	x	x	x	x
<i>Bromus inermis</i>	Smooth Brome			SNA	NNA	G5	SE5								
<i>Calamagrostis canadensis</i>	Bluejoint Reedgrass			S5	N5	G5		4	-5						
<i>Carex stricta</i>	Tussock Sedge			S5	N5	G5		4	-5						
<i>Carex vaginata</i>	Sheathed Sedge			S5	N5	G5		10	-5				x		
<i>Carya cordiformis</i>	Bitternut Hickory			S5	N5	G5		6	0					x	
<i>Caulophyllum thalictroides</i>	Blue Cohosh			S5	N5	G5		5	5						x
<i>Coclea tubifera</i>	Bulbous Water-hemlock			S5	N5	G5		5	-5						
<i>Cirsium arvense</i>	Canada Thistle			SNA	NNA	G5	SE5		3			x			
<i>Clematis virginiana</i>	Virginia Clematis			S5	N5	G5		3	0						
<i>Clintonia borealis</i>	Yellow Clintonia			S5	N5	G5		7	0				x		
<i>Convolvulus arvensis</i>	Field Bindweed			SNA	NNA	GNR	SE5		5						
<i>Copis trifolia</i>	Goldthread			S5	N5	G5		7	-3				x		
<i>Cornus racemosa</i>	Gray Dogwood			S5	N5	G5		2	0						
<i>Cornus sericea</i>	Red-osier Dogwood			S5	N5	G5		2	-3						
<i>Corylus cornuta</i>	Beaked Hazelnut			S5	N5	G5		5	3				x		
<i>Craegus</i> spp.	Hawthorn sp.			-	-	-	-	-	-						
<i>Cypripedium parviflorum</i>	Yellow Lady's-slipper			S5	N5	G5		5	0						
<i>Dactylis glomerata</i>	Orchard Grass			SNA	NNA	GNR	SE5		5						
<i>Daucus carota</i>	Wild Carrot			SNA	NNA	GNR	SE5		5						
<i>Dirca palustris</i>	Eastern Leatherwood			S4	N4	G4		7	0		x			x	
<i>Dryopteris marginalis</i>	Marginal Wood Fern			S5	N5	G5		5	3		x		x	x	x
<i>Echium vulgare</i>	Common Viper's Bugloss			SNA	NNA	GNR	SE5		5						
<i>Equisetum fluviatile</i>	Water Horsetail			S5	N5	G5		7	-5						
<i>Equisetum hyemale</i>	Common Scouring-rush			S5	N5	G5		2	0	x					
<i>Equisetum palustre</i>	Marsh Horsetail			S5	N5	G5		10	-3						
<i>Equisetum pratense</i>	Meadow Horsetail			S5	N5	G5		8	-3	x					
<i>Equisetum scirpoides</i>	Dwarf Scouring-rush			S5	N5	G5		7	3				x		x
<i>Equisetum sylvaticum</i>	Woodland Horsetail			S5	N5	G5		7	-3						x
<i>Erigeron strigosus</i>	Rough Fleabane			S5	N5	G5		4	3						
<i>Erythronium americanum</i>	Yellow Trout-lily			S5	N5	G5		5	5						
<i>Eurybia macrophylla</i>	Large-leaved Aster			S5	N5	G5		5	5						
<i>Eutrochium maculatum</i>	Spotted Joe Pye Weed			S5	N5	G5		3	-5						
<i>Fagus grandifolia</i>	American Beech			S4	N5	G5		6	-3	x	x	x	x	x	x
<i>Fragaria virginiana</i>	Wild Strawberry			S5	N5	G5		2	3						
<i>Fraxinus americana</i>	White Ash			S4	N5	G5		4	3	x	x		x	x	x
<i>Fraxinus nigra</i>	Black Ash			S3	N5	G5		7	-3						
<i>Fraxinus pennsylvanica</i>	Red Ash			S4	N5	G5		3	-5						
<i>Galium mollugo</i>	Smooth Bedstraw			SNA	NNA	GNR	SE5		5						
<i>Galium palustre</i>	Common Marsh Bedstraw			S5	N5	G5		5	-5						
<i>Galium triflorum</i>	Three-flowered Bedstraw			S5	N5	G5		4	3						x
<i>Glyceria striata</i>	Fowl Managrass			S5	N5	G5		3	-5						x
<i>Gymnocarpium dryopteris</i>	Common Oak Fern			S5	N5	G5		7	3						
<i>Hepatica acutiloba</i>	Sharp-lobed Hepatica			S5	N5	G5		8	5				x		
<i>Hydrocharis morsus-ranae</i>	European Frog-bit			SNA	NNA	GNR	SE5		-5						
<i>Hydotesmum glutinosum</i>	Large Tick-trefoil			S4	N4N5	G5		6	5						
<i>Hypericum perforatum</i>	Common St. John's-wort			SNA	NNA	G-TNR	SE5		5						
<i>Impatiens capensis</i>	Spotted Jewelweed			S5	N5	G5		4	-3		x				
<i>Juglans cinerea</i>	Butternut	END	END	S2?	N2	G3		6	3				x	x	
<i>Juncus tenuis</i>	Path Rush			S5	N5	G5		0	0					x	
<i>Juniperus horizontalis</i>	Creeping Juniper			S5	N5	G5		10	3			x			
<i>Laportea canadensis</i>	Canada Wood Nettle			S5	N5	G5		6	-3		x				
<i>Leucanthemum vulgare</i>	Oxeye Daisy			SNA	NNA	GNR	SE5		5				x		
<i>Lithospermum officinale</i>	European Gromwell			SNA	NNA	GNR	SE5		5						
<i>Lonicera canadensis</i>	Canada Fly Honeysuckle			S5	N5	G5		6	3			x		x	
<i>Lycopus americanus</i>	American Water-horehound			S5	N5	G5		4	-5				x		
<i>Lysimachia borealis</i>	Northern Starflower			S5	N5	G5		6	0				x	x	
<i>Lysimachia ciliata</i>	Fringed Yellow Loosestrife			S5	N5	G5		4	-3						
<i>Lythrum salicaria</i>	Purple Loosestrife			SNA	NNA	G5	SE5		-5						
<i>Maianthemum canadense</i>	Wild Lily-of-the-valley			S5	N5	G5		5	3		x	x		x	x
<i>Maianthemum stellatum</i>	Star-flowered False Solomon's Seal			S5	N5	G5		6	0						
<i>Matteuccia struthiopteris</i>	Ostrich Fern			S5	N5	G5		5	0		x				
<i>Melilotus albus</i>	White Sweet-clover			SNA	NNA	G5	SE5		3						
<i>Mentha canadensis</i>	Canada Mint			S5	N5	G5		5	-3						
<i>Mitchella repens</i>	Partridgeberry			S5	N5	G5		6	3					x	
<i>Mitella diphylla</i>	Two-leaved Miterwort			S5	N5	G5		5	3						x
<i>Mitella nuda</i>	Naked Miterwort			S5	N5	G5		6	-3						
<i>Myosotis arvensis</i>	Field Forget-me-not			SNA	NNA	GNR	SE4		3						
<i>Nabalus albus</i>	White Rattlesnakeroot			S5	N5	G5		6	3				x	x	x
<i>Onoclea sensibilis</i>	Sensitive Fern			S5	N5	G5		4	-3	x					
<i>Osmunda regalis</i>	Royal Fern			S5	N5	G5		7	-5						
<i>Osmundastrum cinnamomeum</i>	Cinnamon Fern			S5	N5	G5		7	-3						
<i>Ostrya virginiana</i>	Eastern Hop-hornbeam			S5	N5	G5		4	-3		x	x	x	x	x
<i>Oxalis stricta</i>	Upright Yellow Wood-sorrel			S5	N5	G5		0	3						
<i>Parthenocissus quinquefolia</i>	Virginia Creeper			S4?	N4?	G5		6	3						
<i>Pastinaca sativa</i>	Wild Parsnip			SNA	NNA	GNR	SE5		5						
<i>Phalaris arundinacea</i>	Reed Canarygrass			S5	NNR	G5TNR		0	-3						
<i>Picea glauca</i>	White Spruce			S5	N5	G5		6	3						
<i>Pilosella aurantiaca</i>	Orange Hawkweed			SNA	NNA	GNR	SE5		5						
<i>Pilosella caespitosa</i>	Meadow Hawkweed			SNA	NNA	GNR	SE5		5						
<i>Pinus resinosa</i>	Red Pine			S5	N5	G5		8	3	x		x			
<i>Pinus strobus</i>	Eastern White Pine			S5	N5	G5		4	3		x	x		x	
<i>Pinus sylvestris</i>	Scots Pine			SNA	NNA	GNR	SE5		3				x		
<i>Populus balsamifera</i>	Balsam Poplar			S5	NNR	G5		4	-3						
<i>Populus grandidentata</i>	Large-toothed Aspen			S5	N5	G5		5	5						
<i>Populus tremuloides</i>	Trembling Aspen			S5	N5	G5		2	0	x					x
<i>Potentilla recta</i>	Sulphur Cinquefoil			SNA	NNA	GNR	SE5		5						
<i>Prunus serotina</i>	Black Cherry			S5	N5	G5		3	3						
<i>Prunus virginiana</i>	Chokecherry			S5	N5	G5		2	3						
<i>Pteridium aquilinum</i>	Bracken Fern			S5	N5	G5		2	3						x
<i>Quercus rubra</i>	Northern Red Oak			S5	N5	G5		6	3	x		x		x	
<i>Ranunculus abortivus</i>	Kidney-leaved Buttercup			S5	N5	G5		2	0		x				
<i>Ranunculus acris</i>	Common Buttercup			SNA	NNA	G5	SE5		5					x	
<i>Rhus typhina</i>	Staghorn Sumac			S5	N5	G5		1	0						
<i>Ribes cynosbati</i>	Eastern Prickly Gooseberry			S5	N5	G5		4	3			x			
<i>Ribes lacustre</i>	Bristly Black Currant			S5	N5	G5		7	-3						
<i>Rosa acicularis</i>	Prickly Rose			S5	N5	G5		5	3						
<i>Rosa blanda</i>	Smooth Rose			S5	N5	G5		3	3						
<i>Rosa rugosa</i>	Rugosa Rose			SNA	NNA	GNR	SE1		3						
<i>Rubus occidentalis</i>	Black Raspberry			S5	N5	G5		2	5						
<i>Rubus odoratus</i>	Purple-flowering Raspberry			S5	N5	G5		3	5						
<i>Rudbeckia triloba</i>	Brown-eyed Susan			SNA	NNA	G5	SE4		3						
<i>Salix amygdaloides</i>	Peach-leaved Willow			S5	N5	G5		6	-3						
<i>Sambucus canadensis</i>	Common Elderberry			S5	N5	G5		5	-3						
<i>Scirpus microcarpus</i>	Red-tinged Bulrush			S5	N5	G5		4	-5				x		
<i>Silene vulgaris</i>	Bladder Campion			SNA	NNA										

Appendix C - Vegetation Species List
Natural Heritage Study
Ferguson Lake Road Reconstruction
Township of Greater Madawaska, Renfrew County

Scientific Name	Common Name	SARA	SARO	S Rank	N Rank	G Rank	Exotic Status	Coefficient of Conservation	Coefficient of Wetness	FOMM5-2	FODM5-2	FOMM2-2	SWMM1-1	FODM3-1	FOMM3-3
<i>Taraxacum officinale</i>	Common Dandelion			SNA	N5	G5	SE5	6	3	x				x	x
<i>Thalictrum dioicum</i>	Early Meadow-rue			S5	N5	G5		5	-3						
<i>Thalictrum pubescens</i>	Tall Meadow-rue			S5	N5	G5		5	-3						
<i>Thelypteris palustris</i>	Marsh Fern			S5	N5	G5		4	-3		x	x	x		x
<i>Thuja occidentalis</i>	Eastern White Cedar			S5	N5	G5		4	-3		x	x	x	x	x
<i>Tilia americana</i>	Basswood			S5	N5	G5		2	0						
<i>Toxicodendron radicans</i>	Poison Ivy			SNA	N4	G5T5		3	3						
<i>Trifolium pratense</i>	Red Clover			SNA	NNA	GNR	SE5	8	0	x					
<i>Trillium cernuum</i>	Nodding Trillium			S5	N5	G5		6	3					x	
<i>Trillium erectum</i>	Red Trillium			S5	N5	G5		5	3		x		x		x
<i>Trillium grandiflorum</i>	White Trillium			S5	N5	G5		7	3		x	x	x	x	x
<i>Tsuga canadensis</i>	Eastern Hemlock			SNA	NNA	GNR	SE5	1	-5				x		
<i>Tussilago farfara</i>	Coltsfoot			S5	N5	G4		3	-3						
<i>Typha latifolia</i>	Broad-leaved Cattail			SNA	NNA	GNR	SE5	5	5					x	
<i>Ulmus americana</i>	White Elm			SNA	NNA	GNR	SE5		0						
<i>Verbascum thapsus</i>	Common Mullein			SNA	NNA	G5	SE5		5						
<i>Veronica officinalis</i>	Common Speedwell			SNA	N5	G5	SE5?		0						
<i>Veronica serpyllifolia</i>	Thyme-leaved Speedwell			SNA	NNA	GNR	SE5		7						
<i>Vicia cracca</i>	Tufted Vetch			S4	N4	G5		0	0						
<i>Vitis aestivalis</i>	Summer Grape			S5	N5	G5			3						
<i>Vitis riparia</i>	Riverbank Grape			S5	N5	G5			3						
<i>Zanthoxylum americanum</i>	Common Prickly-ash			S5	N5	G5		3	3						

Appendix C - Vegetation Species List
Natural Heritage Study
Ferguson Lake Road Reconstruction
Township of Greater Madawaska, Renfrew County

Scientific Name	Common Name	SARA	SARO	S Rank	N Rank	G Rank	Exotic Status	Coefficient of Conservation	Coefficient of Wetness	SWTM2-1	SWTM1-1	FOMM10-2	FODM5-6
<i>Abies balsamea</i>	Balsam Fir			S5	N5	G5		5	-3				
<i>Acer pensylvanicum</i>	Striped Maple			S4	N5	G5		7	-3				
<i>Acer saccharinum</i>	Silver Maple			S5	N5	G5		5	-3	x			
<i>Acer saccharum</i>	Sugar Maple			S5	N5	G5		4	-3			x	x
<i>Acer spicatum</i>	Mountain Maple			S5	N5	G5		6	-3				
<i>Achillea millefolium</i>	Common Yarrow			SNA	NNR	G5	SE5?		3				
<i>Actaea pachypoda</i>	White Baneberry			S5	N5	G5		6	5			x	x
<i>Adiantum pedatum</i>	Northern Maidenhair Fern			S5	N5	G5		7	3				
<i>Alisma triviale</i>	Northern Water-plantain			S5	N5	G5		1	-5				
<i>Alnus incana</i> ssp. <i>rugosa</i>	Speckled Alder			S5	N5	G5T5		6	-3	x	x		
<i>Amelanchier laevis</i>	Smooth Serviceberry			S5	N5	G5		5	5				x
<i>Amphicarpaea bracteata</i>	American Hog-peanut			S5	N5	G5		4	0				
<i>Anemonastrum canadense</i>	Canada Anemone			S5	N5	G5		3	-3	x			
<i>Antennaria neglecta</i>	Field Pussytoes			S5	N5	G5		3	5				
<i>Apocynum androsaemifolium</i>	Spreading Dogbane			S5	N5	G5		3	-5				
<i>Aquilegia canadensis</i>	Red Columbine			S5	N5	G5		5	3				
<i>Aralia nudicaulis</i>	Wild Sarsaparilla			S5	N5	G5		4	3				
<i>Arctium minus</i>	Common Burdock			SNA	NNA	GNR	SE5		3				
<i>Aruncus dioicus</i>	Common Goatsbeard			SNA	N5	G5	SE1		3				
<i>Asclepias syriaca</i>	Common Milkweed			S5	N5	G5		0	5	x			
<i>Asteraceae</i> spp.	Asters	-	-	-	-	-	-	-	-				
<i>Betula alleghaniensis</i>	Yellow Birch			S5	N5	G5		6	0				
<i>Betula papyrifera</i>	Paper Birch			S5	N5	G5		2	3			x	
<i>Bromus inermis</i>	Smooth Brome			SNA	NNA	G5	SE5		5				
<i>Calamagrostis canadensis</i>	Bluejoint Reedgrass			S5	N5	G5		4	-5				
<i>Carex stricta</i>	Tussock Sedge			S5	N5	G5		4	-5	x			
<i>Carex vaginata</i>	Sheathed Sedge			S5	N5	G5		10	-5				
<i>Carya cordiformis</i>	Bitternut Hickory			S5	N5	G5		6	0				
<i>Caulophyllum thalictroides</i>	Blue Cohosh			S5	N5	G5		5	5				
<i>Coclea tubifera</i>	Bulbous Water-hemlock			S5	N5	G5		5	-5				
<i>Cirsium arvense</i>	Canada Thistle			SNA	NNA	G5	SE5		3				
<i>Clematis virginiana</i>	Virginia Clematis			S5	N5	G5		3	0		x	x	
<i>Clintonia borealis</i>	Yellow Clintonia			S5	N5	G5		7	0				
<i>Convolvulus arvensis</i>	Field Bindweed			SNA	NNA	GNR	SE5		5				
<i>Copis trifolia</i>	Goldthread			S5	N5	G5		7	-3				
<i>Cornus racemosa</i>	Gray Dogwood			S5	N5	G5		2	0	x			
<i>Cornus sericea</i>	Red-osier Dogwood			S5	N5	G5		2	-3	x	x		
<i>Corylus cornuta</i>	Beaked Hazelnut			S5	N5	G5		5	3				
<i>Craegus</i> spp.	Hawthorn sp.	-	-	-	-	-	-	-	-				
<i>Cypripedium parviflorum</i>	Yellow Lady's-slipper			S5	N5	G5		5	0				
<i>Dactylis glomerata</i>	Orchard Grass			SNA	NNA	GNR	SE5		5				
<i>Daucus carota</i>	Wild Carrot			SNA	NNA	GNR	SE5		5				
<i>Dirca palustris</i>	Eastern Leatherwood			S4	N4	G4		7	0				
<i>Dryopteris marginalis</i>	Marginal Wood Fern			S5	N5	G5		5	3				
<i>Echium vulgare</i>	Common Viper's Bugloss			SNA	NNA	GNR	SE5		5				
<i>Equisetum fluviatile</i>	Water Horsetail			S5	N5	G5		7	-5		x		
<i>Equisetum hyemale</i>	Common Scouring-rush			S5	N5	G5		2	0				
<i>Equisetum palustre</i>	Marsh Horsetail			S5	N5	G5		10	-3	x			
<i>Equisetum pratense</i>	Meadow Horsetail			S5	N5	G5		8	-3			x	
<i>Equisetum scirpoides</i>	Dwarf Scouring-rush			S5	N5	G5		7	0				
<i>Equisetum sylvaticum</i>	Woodland Horsetail			S5	N5	G5		7	-3				
<i>Erigeron strigosus</i>	Rough Fleabane			S5	N5	G5		4	3				
<i>Erythronium americanum</i>	Yellow Trout-lily			S5	N5	G5		5	5				
<i>Eurybia macrophylla</i>	Large-leaved Aster			S5	N5	G5		5	5			x	
<i>Eutrochium maculatum</i>	Spotted Joe Pye Weed			S5	N5	G5		3	-5		x		
<i>Fagus grandifolia</i>	American Beech			S4	N5	G5		6	3				
<i>Fragaria virginiana</i>	Wild Strawberry			S5	N5	G5		2	3				
<i>Fraxinus americana</i>	White Ash			S4	N5	G5		4	-3				x
<i>Fraxinus nigra</i>	Black Ash			S3	N5	G5		7	-3	x			
<i>Fraxinus pennsylvanica</i>	Red Ash			S4	N5	G5		3	-5		x	x	
<i>Galium mollugo</i>	Smooth Bedstraw			SNA	NNA	GNR	SE5		5				
<i>Galium palustre</i>	Common Marsh Bedstraw			S5	N5	G5		5	-5	x			
<i>Galium triflorum</i>	Three-flowered Bedstraw			S5	N5	G5		4	3				x
<i>Glyceria striata</i>	Fowl Managracass			S5	N5	G5		3	-5				
<i>Gymnocarpium dryopteris</i>	Common Oak Fern			S5	N5	G5		7	3				
<i>Hepatica acutiloba</i>	Sharp-lobed Hepatica			S5	N5	G5		8	5				
<i>Hydrocharis morsus-ranae</i>	European Frog-bit			SNA	NNA	GNR	SE5		-5				
<i>Hydotesmum glutinosum</i>	Large Tick-trefoil			S4	N4N5	G5		6	5				
<i>Hypericum perforatum</i>	Common St. John's-wort			SNA	NNA	G-TNR	SE5		5				
<i>Impatiens capensis</i>	Spotted Jewelweed			S5	N5	G5		4	-3				
<i>Juglans cinerea</i>	Butternut	END	END	S2?	N2	G3		6	3			x	
<i>Juncus tenuis</i>	Path Rush			S5	N5	G5		0	0				
<i>Juniperus horizontalis</i>	Creeping Juniper			S5	N5	G5		10	3				
<i>Laportea canadensis</i>	Canada Wood Nettle			S5	N5	G5		6	-3				
<i>Leucanthemum vulgare</i>	Oxeye Daisy			SNA	NNA	GNR	SE5		5				
<i>Lithospermum officinale</i>	European Gromwell			SNA	NNA	GNR	SE5		5				
<i>Lonicera canadensis</i>	Canada Fly Honeysuckle			S5	N5	G5		6	3				
<i>Lycopus americanus</i>	American Water-horehound			S5	N5	G5		4	-5				
<i>Lysimachia borealis</i>	Northern Starflower			S5	N5	G5		6	0			x	
<i>Lysimachia ciliata</i>	Fringed Yellow Loosestrife			S5	N5	G5		4	-3	x			
<i>Lythrum salicaria</i>	Purple Loosestrife			SNA	NNA	G5	SE5		-5	x			
<i>Maianthemum canadense</i>	Wild Lily-of-the-valley			S5	N5	G5		5	3			x	
<i>Maianthemum stellatum</i>	Star-flowered False Solomon's Seal			S5	N5	G5		6	0				
<i>Matteuccia struthiopteris</i>	Ostrich Fern			S5	N5	G5		5	0				
<i>Meibomia alba</i>	White Sweet-clover			SNA	NNA	G5	SE5		3				
<i>Mentha canadensis</i>	Canada Mint			S5	N5	G5		5	-3				
<i>Mitchella repens</i>	Partridgeberry			S5	N5	G5		6	3				
<i>Mitella diphylla</i>	Two-leaved Mitrewort			S5	N5	G5		5	3				
<i>Mitella nuda</i>	Naked Mitrewort			S5	N5	G5		6	-3				
<i>Myosotis arvensis</i>	Field Forget-me-not			SNA	NNA	GNR	SE4		6				
<i>Nabalus albus</i>	White Rattlesnakeroot			S5	N5	G5		6	3				
<i>Onoclea sensibilis</i>	Sensitive Fern			S5	N5	G5		4	-3	x	x		
<i>Osmunda regalis</i>	Royal Fern			S5	N5	G5		7	-5	x	x		
<i>Osmundastrum cinnamomeum</i>	Cinnamon Fern			S5	N5	G5		7	-3		x		
<i>Ostrya virginiana</i>	Eastern Hop-hornbeam			S5	N5	G5		4	-3				x
<i>Oxalis stricta</i>	Upright Yellow Wood-sorrel			S5	N5	G5		0	3				
<i>Parthenocissus quinquefolia</i>	Virginia Creeper			S4?	N4?	G5		6	3		x		
<i>Pastinaca sativa</i>	Wild Parsnip			SNA	NNA	GNR	SE5		5				
<i>Phalaris arundinacea</i>	Reed Canarygrass			S5	NNR	G5TNR		0	-3	x	x		
<i>Picea glauca</i>	White Spruce			S5	N5	G5		6	3			x	
<i>Pilosella aurantiaca</i>	Orange Hawkweed			SNA	NNA	GNR	SE5		5				
<i>Pilosella caespitosa</i>	Meadow Hawkweed			SNA	NNA	GNR	SE5		5				
<i>Pinus resinosa</i>	Red Pine			S5	N5	G5		8	3			x	
<i>Pinus strobus</i>	Eastern White Pine			S5	N5	G5		4	3				
<i>Pinus sylvestris</i>	Scots Pine			SNA	NNA	GNR	SE5		4				
<i>Populus balsamifera</i>	Balsam Poplar			S5	NNR	G5		4	-3			x	
<i>Populus grandidentata</i>	Large-toothed Aspen			S5	N5	G5		5	5				
<i>Populus tremuloides</i>	Trembling Aspen			S5	N5	G5		2	0			x	
<i>Potentilla recta</i>	Sulphur Cinquefoil			SNA	NNA	GNR	SE5		5				
<i>Prunus serotina</i>	Black Cherry			S5	N5	G5		3	3				
<i>Prunus virginiana</i>	Chokecherry			S5	N5	G5		2	3				
<i>Pteridium aquilinum</i>	Bracken Fern			S5	N5	G5		2	3				
<i>Quercus rubra</i>	Northern Red Oak			S5	N5	G5		6	3				
<i>Ranunculus abortivus</i>	Kidney-leaved Buttercup			S5	N5	G5		2	0				
<i>Ranunculus acris</i>	Common Buttercup			SNA	NNA	G5	SE5		5			x	
<i>Rhus typhina</i>	Staghorn Sumac			S5	N5	G5		1	0				x
<i>Ribes cynosbati</i>	Eastern Prickly Gooseberry			S5	N5	G5		4	3				
<i>Ribes lacustre</i>	Bristly Black Currant			S5	N5	G5		7	-3				
<i>Rosa acicularis</i>	Prickly Rose			S5	N5	G5		5	3				
<i>Rosa blanda</i>	Smooth Rose			S5	N5	G5		3	3				
<i>Rosa rugosa</i>	Rugosa Rose			SNA	NNA	GNR	SE1		3				
<i>Rubus occidentalis</i>	Black Raspberry			S5	N5	G5		2	5			x	
<i>Rubus odoratus</i>	Purple-flowering Raspberry			S5	N5	G5		3	5				
<i>Rudbeckia triloba</i>	Brown-eyed Susan			SNA	NNA	G5	SE4		3				
<i>Salix amygdaloides</i>	Peach-leaved Willow			S5	N5	G5		6	-3	x			
<i>Sambucus canadensis</i>	Common Elderberry			S5	N5	G5		5	-3				
<i>Scirpus microcarpus</i>	Red-tinged Bulrush			S5	N5	G5		4	-5				
<i>Silene vulgaris</i>	Bladder Campion			SNA	NNA	GNR	SE5		5				
<i>Sisyrinchium montanum</i>	Strict Blue-eyed-grass			S5	N5	G5T5		4	0				
<i>Sum. suave</i>	Common Water-parsnip			S5	N5	G5		4	-5				
<i>Solanum dulcamara</i>	Bittersweet Nightshade			SNA	NNA	GNR	SE5		0		x		
<i>Solidago flexicaulis</i>	Zigzag Goldenrod			S5	N5	G5		6	3			x	
<i>Solidago</i> spp.	Goldenrods	-	-	-	-	-	-	-	-				
<i>Sonchus arvensis</i>	Field Sow-thistle			SNA	NNA	GNR	SE5		3			x	
<i>Sonchus asper</i>	Prickly Sow-thistle			SNA	NNA	GNR	SE5		3				
<i>Spiraea alba</i>	White Meadowsweet			S5	N5	G5		3	-3	x			
<i>Streptopus lanceolatus</i>	Rose Twisted-stalk			S5	N5	G5		7	3				

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Scientific Name	Common Name	SARA	SARO	S Rank	N Rank	G Rank	Exotic Status	Coefficient of Conservation	Coefficient of Wetness	SWTM2-1	SWTM1-1	FOMM10-2	FODM5-6
<i>Taraxacum officinale</i>	Common Dandelion			SNA	N5	G5	SE5		3				
<i>Thalictrum dioicum</i>	Early Meadow-rue			S5	N5	G5		6	3		x		
<i>Thalictrum pubescens</i>	Tall Meadow-rue			S5	N5	G5		5	-3		x		
<i>Thelypteris palustris</i>	Marsh Fern			S5	N5	G5		5	-3				
<i>Thuja occidentalis</i>	Eastern White Cedar			S5	N5	G5		4	-3	x	x	x	
<i>Tilia americana</i>	Basswood			S5	N5	G5		4	3	x		x	x
<i>Toxicodendron radicans</i>	Poison Ivy			S5	N4	G5T5		2	0	x		x	
<i>Trifolium pratense</i>	Red Clover			SNA	NNA	GNR	SE5		3				
<i>Trillium cernuum</i>	Nodding Trillium			S5	N5	G5		8	0				x
<i>Trillium erectum</i>	Red Trillium			S5	N5	G5		6	3				x
<i>Trillium grandiflorum</i>	White Trillium			S5	N5	G5		5	3				
<i>Tsuga canadensis</i>	Eastern Hemlock			S5	N5	G5		7	3				
<i>Tussilago farfara</i>	Coltsfoot			SNA	NNA	GNR	SE5		3				
<i>Typha latifolia</i>	Broad-leaved Cattail			S5	N5	G5		1	-5	x			
<i>Ulmus americana</i>	White Elm			S5	N5	G4		3	-3	x	x		
<i>Verbascum thapsus</i>	Common Mullein			SNA	NNA	GNR	SE5		5			x	
<i>Veronica officinalis</i>	Common Speedwell			SNA	NNA	G5	SE5		5				
<i>Veronica serpyllifolia</i>	Thyme-leaved Speedwell			SNA	N5	G5	SE5?		0				
<i>Vicia cracca</i>	Tufted Vetch			SNA	NNA	GNR	SE5		5	x		x	
<i>Vitis aestivalis</i>	Summer Grape			S4	N4	G5		7	3			x	
<i>Vitis riparia</i>	Riverbank Grape			S5	N5	G5		0	0	x	x	x	
<i>Zanthoxylum americanum</i>	Common Prickly-ash			S5	N5	G5		3	3			x	

APPENDIX D

Field Forms

Wildlife

Weather information is recorded on the Wildlife data card. Such information can be useful for helping to interpret records or results.

Temperature: Record of approximate ambient temperature (°C) during the field survey.

Cloud: Record, in tenths, the proportion of the sky covered by clouds.

Wind: Record the Beaufort Scale number according to Table 20

Table 20. Beaufort Wind Scale (adapted from Whittow 1984).

0	Calm	smoke rises vertically
1	Light Air	smoke drifts, but wind vanes do not
2	Light Breeze	wind felt on face, leaves rustle
3	Gentle Breeze	leaves and small twigs in constant motion; light flags extended
4	Moderate Breeze	wind raises dust and loose paper; small branches move
5	Fresh Breeze	small trees in leaf begin to sway
6	Strong Breeze	large branches in motion; whistling in phone wires; umbrella use difficult
7	Near Gale	whole trees in motion; inconvenience felt when walking against wind
8	Gale	twigs break off trees; progress impeded
9	Strong Gale	slight structural damage – roofing shingles, TV antennae
10	Storm	trees uprooted; considerable structural damage

Precipitation: Brief statement of precipitation, e.g., none, steady rain, fog.

Conditions: Brief statement of conditions, surveyor mood, etc., which might affect the survey; a text field of 50 characters.

Indicate the presence of Potential Wildlife Habitat by checking the appropriate box of features that are present within the polygon.

Wildlife: All wildlife sightings and signs should be recorded while in the polygon. Record each sighting by type (TY) (B = bird, H = herpetofauna, etc.) and by species (SP. CODE). Use four-letter codes, provided in the database, for recording species.

Evidence Codes: (EV) should be used to record the type of observation. If possible, give an indication of the estimated number of individuals, pairs or signs for each wildlife species.

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>Ferguson Cr. Rd</u>		POLYGON: <u>CVI-1</u>	
	SURVEYOR(S) <u>DD/KC</u>		DATE <u>June 12/20</u>	
	START	END	UTMZ	UTMN

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL- UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input type="checkbox"/> NATURAL <input checked="" type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BCG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
SITE		COVER			
<input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK		<input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED			

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY			<u>CVI-1</u>
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10-25 m 3 = 2-10 m 4 = 1-2 m 5 = 0.5-1 m 6 = 0.2-0.5 m 7 = HT < 0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 60% 4 = CVR > 60%

STAND COMPOSITION:					BA:
SIZE CLASS ANALYSIS:					
	< 10	10 - 24	25 - 50	> 50	
STANDING SNAGS:					
	< 10	10 - 24	25 - 50	> 50	
DEADFALL / LOGS:					
	< 10	10 - 24	25 - 50	> 50	
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT					
COMM. AGE:					
	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		(cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
INCLUSION	CODE:
COMPLEX	CODE:

Notes:

Wildlife

Weather information is recorded on the Wildlife data card. Such information can be useful for helping to interpret records or results.

Temperature: Record of approximate ambient temperature (°C) during the field survey.

Cloud: Record, in tenths, the proportion of the sky covered by clouds.

Wind: Record the Beaufort Scale number according to Table 20

Table 20. Beaufort Wind Scale (adapted from Whittow 1984).

0	Calm	smoke rises vertically
1	Light Air	smoke drifts, but wind vanes do not
2	Light Breeze	wind felt on face, leaves rustle
3	Gentle Breeze	leaves and small twigs in constant motion; light flags extended
4	Moderate Breeze	wind raises dust and loose paper; small branches move
5	Fresh Breeze	small trees in leaf begin to sway
6	Strong Breeze	large branches in motion; whistling in phone wires; umbrella use difficult
7	Near Gale	whole trees in motion; inconvenience felt when walking against wind
8	Gale	twigs break off trees; progress impeded
9	Strong Gale	slight structural damage – roofing shingles, TV antennae
10	Storm	trees uprooted; considerable structural damage

Precipitation: Brief statement of precipitation, e.g., none, steady rain, fog.

Conditions: Brief statement of conditions, surveyor mood, etc., which might affect the survey; a text field of 50 characters.

Indicate the presence of Potential Wildlife Habitat by checking the appropriate box of features that are present within the polygon.

Wildlife: All wildlife sightings and signs should be recorded while in the polygon. Record each sighting by **type** (TY) (B = bird, H = herpetofauna, etc.) and by **species** (SP. CODE). Use four-letter codes, provided in the database, for recording species.

Evidence Codes: (EV) should be used to record the type of observation. If possible, give an indication of the estimated number of individuals, pairs or signs for each wildlife species.

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>Ferguson Co. Rd</u>		POLYGON: <u>PCC</u>	
	SURVEYOR(S): <u>D.A./SE</u>		DATE: <u>June 16/20</u>	UTME
	START	END	UTMZ	UTMN

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL. UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input type="checkbox"/> NATURAL <input checked="" type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LYD <input checked="" type="checkbox"/> GRAMINOID <input checked="" type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input checked="" type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
SITE <input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK		COVER <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED			

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY			
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER			<u>PCC</u>

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 60% 4 = CVR > 60%

STAND COMPOSITION:					BA:
SIZE CLASS ANALYSIS:	< 10	10 - 24	25 - 50	> 50	
STANDING SNAGS:	< 10	10 - 24	25 - 50	> 50	
DEADFALL / LOGS:	< 10	10 - 24	25 - 50	> 50	
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT					
COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		(cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
INCLUSION	CODE:
COMPLEX	CODE:

Notes:

Wildlife

Weather information is recorded on the Wildlife data card. Such information can be useful for helping to interpret records or results.

Temperature: Record of approximate ambient temperature (°C) during the field survey.

Cloud: Record, in tenths, the proportion of the sky covered by clouds.

Wind: Record the Beaufort Scale number according to Table 20

Table 20. Beaufort Wind Scale (adapted from Whittow 1984).

0	Calm	smoke rises vertically
1	Light Air	smoke drifts, but wind vanes do not
2	Light Breeze	wind felt on face, leaves rustle
3	Gentle Breeze	leaves and small twigs in constant motion; light flags extended
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5	Fresh Breeze	small trees in leaf begin to sway
6	Strong Breeze	large branches in motion; whistling in phone wires; umbrella use difficult
7	Near Gale	whole trees in motion; inconvenience felt when walking against wind
8	Gale	twigs break off trees; progress impeded
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10	Storm	trees uprooted; considerable structural damage

Precipitation: Brief statement of precipitation, e.g. none, steady rain, fog.

Conditions: Brief statement of conditions, surveyor mood, etc., which might affect the survey; a text field of 50 characters.

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Wildlife: All wildlife sightings and signs should be recorded while in the polygon. Record each sighting by **type** (TY) (B = bird, H = herpetofauna, etc.) and by **species** (SP. CODE). Use four-letter codes, provided in the database, for recording species.

Evidence Codes: (EV) should be used to record the type of observation. If possible, give an indication of the estimated number of individuals, pairs or signs for each wildlife species.

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>Feoacton 66 Rd</u>		POLYGON: <u>14</u>	
	SURVEYOR(S) <u>DD/IR</u>		DATE <u>June 16/20</u>	UTME
	START	END	UTMZ	UTMN

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL. UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BCG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
SITE <input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK			COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED		

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	<u>12</u>	<u>4</u>	<u>Sugar Maple > A. B...</u>
2 SUB-CANOPY			
3 UNDERSTOREY			<u>1. Redwood</u>
4 GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 50% 4 = CVR > 50%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:				BA:			
	< 10	10 - 24	25 - 50		> 50		
STANDING SNAGS:							
	< 10	10 - 24	25 - 50		> 50		
DEADFALL / LOGS:							
	< 10	10 - 24	25 - 50		> 50		
ABUNDANCE CODES:				N = NONE R = RARE O = OCCASIONAL A = ABUNDANT			
COMM. AGE:				PIONEER YOUNG MID-AGE MATURE OLD GROWTH			

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:	(cm)	
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	(cm)	

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
INCLUSION	CODE:
COMPLEX	CODE:

Notes:

NOTES:

Wildlife

Weather information is recorded on the Wildlife data card. Such information can be useful for helping to interpret records or results.

Temperature: Record of approximate ambient temperature (°C) during the field survey.

Cloud: Record, in tenths, the proportion of the sky covered by clouds.

Wind: Record the Beaufort Scale number according to Table 20

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6	Strong Breeze	large branches in motion; whistling in phone wires; umbrella use difficult
7	Near Gale	whole trees in motion; inconvenience felt when walking against wind
8	Gale	twigs break off trees; progress impeded
9	Strong Gale	slight structural damage – roofing shingles, TV antennae
10	Storm	trees uprooted; considerable structural damage

Precipitation: Brief statement of precipitation, e.g., none, steady rain, fog.

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Evidence Codes: (EV) should be used to record the type of observation. If possible, give an indication of the estimated number of individuals, pairs or signs for each wildlife species.

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>Ferguson Lk. Rd.</u>		POLYGON: <u>13</u>	
	SURVEYOR(S): <u>BO/SC</u>		DATE: <u>JUNE 16/20</u>	UTME
	START	END	UTMZ	UTMN

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL. UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input checked="" type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input checked="" type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
SITE <input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input checked="" type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK		COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED			

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	<u>Q. STINE 5 T. ASPEN</u>
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT 1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 50% 4 = CVR > 50%

STAND COMPOSITION:					BA:
SIZE CLASS ANALYSIS:					
	< 10	10 - 24	25 - 50	> 50	
STANDING SNAGS:					
	< 10	10 - 24	25 - 50	> 50	
DEADFALL / LOGS:					
	< 10	10 - 24	25 - 50	> 50	
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT					
COMM. AGE:					
	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:	(cm)	
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	(cm)	

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
INCLUSION	
CODE:	
COMPLEX	
CODE:	

Notes:

Wildlife

Weather information is recorded on the Wildlife data card. Such information can be useful for helping to interpret records or results.

Temperature: Record of approximate ambient temperature (°C) during the field survey.

Cloud: Record, in tenths, the proportion of the sky covered by clouds.

Wind: Record the Beaufort Scale number according to Table 20

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10	Storm	trees uprooted; considerable structural damage

Precipitation: Brief statement of precipitation, e.g., none, steady rain, fog.

Conditions: Brief statement of conditions, surveyor mood, etc., which might affect the survey; a text field of 50 characters.

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Wildlife: All wildlife sightings and signs should be recorded while in the polygon. Record each sighting by **type** (TY) (B = bird, H = herpetofauna, etc.) and by **species** (SP. CODE). Use four-letter codes, provided in the database, for recording species.

Evidence Codes: (EV) should be used to record the type of observation. If possible, give an indication of the estimated number of individuals, pairs or signs for each wildlife species.

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>Ferguson Lk. Rd.</u>		POLYGON: <u>12</u>	
	SURVEYOR(S): <u>BB/SC</u>		DATE: <u>June 16/80</u>	
	START	END	UTMZ	UTMN

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL <input checked="" type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL. UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input checked="" type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
SITE <input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK		COVER <input type="checkbox"/> OPEN <input checked="" type="checkbox"/> SHRUB <input type="checkbox"/> TREED			

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY			
2 SUB-CANOPY			<u>SPEC. ALDER SWAMP</u>
3 UNDERSTOREY			
4 GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 50% 4 = CVR > 50%

STAND COMPOSITION:					BA:
SIZE CLASS ANALYSIS:					
	< 10	10 - 24	25 - 50	> 50	
STANDING SNAGS:					
	< 10	10 - 24	25 - 50	> 50	
DEADFALL / LOGS:					
	< 10	10 - 24	25 - 50	> 50	
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT					
COMM. AGE:					
	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:	(cm)	
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	(cm)	

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
INCLUSION	
CODE:	
COMPLEX	
CODE:	

Notes:

TREE TALLY BY SPECIES:

PRISM FACTOR [illegible]

STAND COMPOSITION:

SOIL ASSESSMENT:	1	2	3	4
TEXTURE				
DEPTH TO MOTTLES:	g=	g=	g=	g=
DEPTH TO GLEY:	G=	G=	G=	G=
DEPTH OF ORGANICS				
DEPTH TO BEDROCK				
MOISTURE REGIME				

COMMUNITY PROFILE DIAGRAM

NOTES:

SOIL PROFILE

ELC PLANT SPECIES LIST	SITE: <u>Ferguson Cr. Rd.</u>
	POLYGON: <u>12</u>
	DATE: <u>June 16 / 20</u>
	SURVEYOR(S): <u>DB/SE</u>

LAYERS: 1 = CANOPY > 10m 2 = SUB-CANOPY 3 = UNDERSTOREY 4 = GROUND (GRD.) LAYER

ABUNDANCE CODES: R = RARE O = OCCASIONAL A = ABUNDANT D = DOMINANT

[illegible]

Wildlife

Weather information is recorded on the Wildlife data card. Such information can be useful for helping to interpret records or results.

Temperature: Record of approximate ambient temperature (°C) during the field survey.

Cloud: Record, in tenths, the proportion of the sky covered by clouds.

Wind: Record the Beaufort Scale number according to Table 20

Table 20. Beaufort Wind Scale (adapted from Whittow 1984).

0	Calm	smoke rises vertically
1	Light Air	smoke drifts, but wind vanes do not
2	Light Breeze	wind felt on face, leaves rustle
3	Gentle Breeze	leaves and small twigs in constant motion; light flags extended
4	Moderate Breeze	wind raises dust and loose paper; small branches move
5	Fresh Breeze	small trees in leaf begin to sway
6	Strong Breeze	large branches in motion; whistling in phone wires; umbrella use difficult
7	Near Gale	whole trees in motion; inconvenience felt when walking against wind
8	Gale	twigs break off trees; progress impeded
9	Strong Gale	slight structural damage – roofing shingles, TV antennae
10	Storm	trees uprooted; considerable structural damage

Precipitation: Brief statement of precipitation, e.g., none, steady rain, fog.

Conditions: Brief statement of conditions, surveyor mood, etc., which might affect the survey; a text field of 50 characters.

Indicate the presence of Potential Wildlife Habitat by checking the appropriate box of features that are present within the polygon.

Wildlife: All wildlife sightings and signs should be recorded while in the polygon. Record each sighting by type (TY) (B = bird, H = herpetofauna, etc.) and by species (SP. CODE). Use four-letter codes, provided in the database, for recording species.

Evidence Codes: (EV) should be used to record the type of observation. If possible, give an indication of the estimated number of individuals, pairs or signs for each wildlife species.

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>FERRIS LA. CO</u>		POLYGON: <u>11</u>	
	SURVEYOR(S): <u>DD/KR</u>		DATE: <u>JUNE 12/20</u>	
	START	END	UTMZ	UTMN

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL <input checked="" type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL. UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input checked="" type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input checked="" type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
SITE <input type="checkbox"/> OPEN WATER <input checked="" type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK		COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED			

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	82	SILVER MAPLE >> W. CEDAR
2 SUB-CANOPY			
3 UNDERSTOREY	4	3	R.O. PEGANUS = SP. ALDER = P.L. WILLOW
4 GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR 2 = 10 < CVR 3 = 25 < CVR 4 = 50 < CVR 5 = 60% < CVR 6 = 70% < CVR 7 = 80% < CVR 8 = 90% < CVR 9 = 100% < CVR

STAND COMPOSITION: <u>TYPICAL SWAMP</u>					BA:
SIZE CLASS ANALYSIS:					
	< 10	10 - 24	25 - 50	> 50	
STANDING SNAGS:					
	< 10	10 - 24	25 - 50	> 50	
DEADFALL / LOGS:					
	< 10	10 - 24	25 - 50	> 50	
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT					
COMM. AGE:					
	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		(cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
INCLUSION	CODE:
COMPLEX	CODE:

Notes:

Wildlife

Weather information is recorded on the Wildlife data card. Such information can be useful for helping to interpret records or results.

Temperature: Record of approximate ambient temperature (°C) during the field survey.

Cloud: Record, in tenths, the proportion of the sky covered by clouds.

Wind: Record the Beaufort Scale number according to Table 20

Table 20. Beaufort Wind Scale (adapted from Whittow 1984).

0	Calm	smoke rises vertically
1	Light Air	smoke drifts, but wind vanes do not
2	Light Breeze	wind felt on face, leaves rustle
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4	Moderate Breeze	wind raises dust and loose paper; small branches move
5	Fresh Breeze	small trees in leaf begin to sway
6	Strong Breeze	large branches in motion; whistling in phone wires; umbrella use difficult
7	Near Gale	whole trees in motion; inconvenience felt when walking against wind
8	Gale	twigs break off trees; progress impeded
9	Strong Gale	slight structural damage – roofing shingles, TV antennae
10	Storm	trees uprooted; considerable structural damage

Precipitation: Brief statement of precipitation, e.g., none, steady rain, fog.

Conditions: Brief statement of conditions, surveyor mood, etc., which might affect the survey; a text field of 50 characters.

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Wildlife: All wildlife sightings and signs should be recorded while in the polygon. Record each sighting by **type** (TY) (B = bird, H = herpetofauna, etc.) and by **species** (SP. CODE). Use four-letter codes, provided in the database, for recording species.

Evidence Codes: (EV) should be used to record the type of observation. If possible, give an indication of the estimated number of individuals, pairs or signs for each wildlife species.

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>Fecogon Lk Rd</u>		POLYGON: <u>10</u>	
	SURVEYOR(S): <u>DJ/SE</u>		DATE: <u>June 12/20</u>	UTME
	START	END	UTMZ	UTMN

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL. UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BCG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
SITE <input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK			COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED		

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	1	4	<u>SUGAR MAPLE > E. HEMLOCK = W. CEDAR</u>
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR : 10% 2 = 10 < CVR : 25% 3 = 25 < CVR : 60% 4 = CVR > 60%

STAND COMPOSITION:

STAND COMPOSITION:				BA:
SIZE CLASS ANALYSIS:	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:	< 10	10 - 24	25 - 50	> 50
DEADFALL / LOGS:	< 10	10 - 24	25 - 50	> 50
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT				
COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE
				OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:	(cm)	
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	(cm)	

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
INCLUSION	CODE:
COMPLEX	CODE:

Notes:

Wildlife

Weather information is recorded on the Wildlife data card. Such information can be useful for helping to interpret records or results.

Temperature: Record of approximate ambient temperature (°C) during the field survey.

Cloud: Record, in tenths, the proportion of the sky covered by clouds.

Wind: Record the Beaufort Scale number according to Table 20

Table 20. Beaufort Wind Scale (adapted from Whittow 1984).

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10	Storm	trees uprooted; considerable structural damage

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Evidence Codes: (EV) should be used to record the type of observation. If possible, give an indication of the estimated number of individuals, pairs or signs for each wildlife species.

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>FERRIS L. 20</u>		POLYGON: <u>9</u>	
	SURVEYOR(S): <u>D/SR</u>		DATE: <u>June 12/20</u>	UTME
	START	END	UTMZ	UTMN

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL. UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
SITE <input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input checked="" type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK			COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED		

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	1	4	LG. BERRY, PIPER, A. BEECH, S. G. MAPLE
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 50% 4 = CVR > 50%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:					BA:
	< 10	10 - 24	25 - 50	> 50	
STANDING SNAGS:	< 10	10 - 24	25 - 50	> 50	
DEADFALL / LOGS:	< 10	10 - 24	25 - 50	> 50	
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT					
COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		(cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
INCLUSION	CODE:
COMPLEX	CODE:

Notes:

Wildlife

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Precipitation: Brief statement of precipitation, e.g., none, steady rain, fog.

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Evidence Codes: (EV) should be used to record the type of observation. If possible, give an indication of the estimated number of individuals, pairs or signs for each wildlife species.

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>Ferguson Lake 20</u>		POLYGON: <u>8</u>	
	SURVEYOR(S): <u>DDSC</u>		DATE: <u>June 12/20</u>	
	START	END	UTMZ	UTMN

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL <input checked="" type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL. UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input checked="" type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
SITE <input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK		COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED			

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	W CEDAR > E Hemlock = Sugar Pine / Red Alder
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR, 10% 2 = 10 < CVR, 25% 3 = 25 < CVR, 50% 4 = CVR > 50%

STAND COMPOSITION:					BA:
SIZE CLASS ANALYSIS:					
	< 10	10 - 24	25 - 50	> 50	
STANDING SNAGS:					
	< 10	10 - 24	25 - 50	> 50	
DEADFALL / LOGS:					
	< 10	10 - 24	25 - 50	> 50	
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT					
COMM. AGE:					
	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:	(cm)	
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	(cm)	

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
INCLUSION	
CODE:	
COMPLEX	
CODE:	

Notes:

Page of

Wildlife

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Evidence Codes: (EV) should be used to record the type of observation. If possible, give an indication of the estimated number of individuals, pairs or signs for each wildlife species.

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>FEDERSON CR. PA.</u>		POLYGON: <u>7</u>	
	SURVEYOR(S): <u>DD/SR</u>		DATE: <u>JUNE 7/80</u>	UTME
	START	END	UTMZ	UTMN

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
SITE <input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input checked="" type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK		COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED			

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	1	4	SUGAR MAPLE > W. PINE > E. PINE
2 SUB-CANOPY			(LOW COVER)
3 UNDERSTOREY			
4 GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT 1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR 10% 2 = 10 < CVR 25% 3 = 25 < CVR 60% 4 = CVR > 60%

STAND COMPOSITION:					BA:
SIZE CLASS ANALYSIS:					
	< 10	10 - 24	25 - 50	> 50	
STANDING SNAGS:					
	< 10	10 - 24	25 - 50	> 50	
DEADFALL / LOGS:					
	< 10	10 - 24	25 - 50	> 50	
ABUNDANCE CODES:					
N = NONE R = RARE O = OCCASIONAL A = ABUNDANT					
COMM. AGE:					
	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		(cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
INCLUSION	
CODE:	
COMPLEX	
CODE:	

Notes:

NOTES:

Wildlife

Weather information is recorded on the Wildlife data card. Such information can be useful for helping to interpret records or results.

Temperature: Record of approximate ambient temperature (°C) during the field survey.

Cloud: Record, in tenths, the proportion of the sky covered by clouds.

Wind: Record the Beaufort Scale number according to Table 20

Table 20. Beaufort Wind Scale (adapted from Whitrow 1984).

0	Calm	smoke rises vertically
1	Light Air	smoke drifts, but wind vanes do not
2	Light Breeze	wind felt on face, leaves rustle
3	Gentle Breeze	leaves and small twigs in constant motion; light flags extended
4	Moderate Breeze	wind raises dust and loose paper; small branches move
5	Fresh Breeze	small trees in leaf begin to sway
6	Strong Breeze	large branches in motion; whistling in phone wires; umbrella use difficult
7	Near Gale	whole trees in motion; inconvenience felt when walking against wind
8	Gale	twigs break off trees; progress impeded
9	Strong Gale	slight structural damage – roofing shingles, TV antennae
10	Storm	trees uprooted; considerable structural damage

Precipitation: Brief statement of precipitation, e.g., none, steady rain, fog.

Conditions: Brief statement of conditions, surveyor mood, etc., which might affect the survey; a text field of 50 characters.

Indicate the presence of Potential Wildlife Habitat by checking the appropriate box of features that are present within the polygon.

Wildlife: All wildlife sightings and signs should be recorded while in the polygon. Record each sighting by type (TY) (B = bird, H = herpetofauna, etc.) and by species (SP. CODE). Use four-letter codes, provided in the database, for recording species.

Evidence Codes: (EV) should be used to record the type of observation. If possible, give an indication of the estimated number of individuals, pairs or signs for each wildlife species.

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>Ferguson Le Ro</u>		POLYGON: <u>6</u>	
	SURVEYOR(S): <u>DJ/RE</u>		DATE: <u>June 9/20</u>	UTME
	START	END	UTMZ	UTMN

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL. UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
SITE <input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK		COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED			

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	1	4	SUGAR MAPLE > BEECH
2 SUB-CANOPY			IRONWOOD
3 UNDERSTOREY			
4 GRD. LAYER			FERNS

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR : 10% 2 = 10 < CVR : 25% 3 = 25 < CVR : 60% 4 = CVR > 60%

STAND COMPOSITION:

STAND COMPOSITION:				BA:
SIZE CLASS ANALYSIS:				
	< 10	10 - 24	25 - 50	> 50
STANDING SNAGS:				
	< 10	10 - 24	25 - 50	> 50
DEADFALL / LOGS:				
	< 10	10 - 24	25 - 50	> 50
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT				
COMM. AGE:				
	PIONEER	YOUNG	MID-AGE	MATURE
				OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		(cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
INCLUSION	CODE:
COMPLEX	CODE:

Notes:

Wildlife

Weather information is recorded on the Wildlife data card. Such information can be useful for helping to interpret records or results.

Temperature: Record of approximate ambient temperature (°C) during the field survey.

Cloud: Record, in tenths, the proportion of the sky covered by clouds.

Wind: Record the Beaufort Scale number according to Table 20

Table 20. Beaufort Wind Scale (adapted from Whittow 1984).

0	Calm	smoke rises vertically
1	Light Air	smoke drifts, but wind vanes do not
2	Light Breeze	wind felt on face, leaves rustle
3	Gentle Breeze	leaves and small twigs in constant motion; light flags extended
4	Moderate Breeze	wind raises dust and loose paper; small branches move
5	Fresh Breeze	small trees in leaf begin to sway
6	Strong Breeze	large branches in motion; whistling in phone wires; umbrella use difficult
7	Near Gale	whole trees in motion; inconvenience felt when walking against wind
8	Gale	twigs break off trees; progress impeded
9	Strong Gale	slight structural damage – roofing shingles, TV antennae
10	Storm	trees uprooted; considerable structural damage

Precipitation: Brief statement of precipitation, e.g., none, steady rain, fog.

Conditions: Brief statement of conditions, surveyor mood, etc., which might affect the survey; a text field of 50 characters.

Indicate the presence of Potential Wildlife Habitat by checking the appropriate box of features that are present within the polygon.

Wildlife: All wildlife sightings and signs should be recorded while in the polygon. Record each sighting by type (TY) (B = bird, H = herpetofauna, etc.) and by species (SP. CODE). Use four-letter codes, provided in the database, for recording species.

Evidence Codes: (EV) should be used to record the type of observation. If possible, give an indication of the estimated number of individuals, pairs or signs for each wildlife species.

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>Ferguson Lk. Rd.</u>		POLYGON: <u>5</u>	
	SURVEYOR(S): <u>DAIR</u>		DATE: <u>June 2/20</u>	
	START	END	UTMZ	UTMN

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL. UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input checked="" type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
SITE <input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK		COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED			

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	T. ARDEN > R. PINE > W. B. C. C.
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10<HT-25 m 3 = 2<HT-10 m 4 = 1<HT-2 m 5 = 0.5<HT 1 m 6 = 0.2<HT-0.5 m 7 = HT<0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 60% 4 = CVR > 60%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:					BA:
	< 10	10 - 24	25 - 50	> 50	
STANDING SNAGS:	< 10	10 - 24	25 - 50	> 50	
DEADFALL / LOGS:	< 10	10 - 24	25 - 50	> 50	
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT					
COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		(cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
INCLUSION	CODE:
COMPLEX	CODE:

Notes:

NOTES:

Wildlife

Weather information is recorded on the Wildlife data card. Such information can be useful for helping to interpret records or results.

Temperature: Record of approximate ambient temperature (°C) during the field survey.

Cloud: Record, in tenths, the proportion of the sky covered by clouds.

Wind: Record the Beaufort Scale number according to Table 20

Table 20. Beaufort Wind Scale (adapted from Whittow 1984).

0	Calm	smoke rises vertically
1	Light Air	smoke drifts, but wind vanes do not
2	Light Breeze	wind felt on face, leaves rustle
3	Gentle Breeze	leaves and small twigs in constant motion; light flags extended
4	Moderate Breeze	wind raises dust and loose paper; small branches move
5	Fresh Breeze	small trees in leaf begin to sway
6	Strong Breeze	large branches in motion; whistling in phone wires; umbrella use difficult
7	Near Gale	whole trees in motion; inconvenience felt when walking against wind
8	Gale	twigs break off trees; progress impeded
9	Strong Gale	slight structural damage – roofing shingles, TV antennae
10	Storm	trees uprooted; considerable structural damage

Precipitation: Brief statement of precipitation, e.g., none, steady rain, fog.

Conditions: Brief statement of conditions, surveyor mood, etc., which might affect the survey; a text field of 50 characters.

Indicate the presence of **Potential Wildlife Habitat** by checking the appropriate box of features that are present within the polygon.

Wildlife: All wildlife sightings and signs should be recorded while in the polygon. Record each sighting by type (TY) (B = bird, H = herpetofauna, etc.) and by species (SP. CODE). Use four-letter codes, provided in the database, for recording species.

Evidence Codes: (EV) should be used to record the type of observation. If possible, give an indication of the estimated number of individuals, pairs or signs for each wildlife species.

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>Ferguson Lk. Rd.</u>		POLYGON: <u>4</u>	
	SURVEYOR(S) <u>DB/RE</u>		DATE <u>June 7/20</u>	UTME
	START	END	UTMZ	UTMN

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL <input checked="" type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL. UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
SITE		COVER			
<input type="checkbox"/> OPEN WATER <input checked="" type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK		<input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED			

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	W. CEDAR >> P. B. CEDAR
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER			KEOKUS

HT CODES: 1 = >25 m 2 = 10-25 m 3 = 2-10 m 4 = 1-2 m 5 = 0.5-1 m 6 = 0.2-0.5 m 7 = HT < 0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10% < CVR < 25% 3 = 25% < CVR < 60% 4 = CVR > 60%

STAND COMPOSITION:					BA:
SIZE CLASS ANALYSIS:					
	< 10	10 - 24	25 - 50	> 50	
STANDING SNAGS:					
	< 10	10 - 24	25 - 50	> 50	
DEADFALL / LOGS:					
	< 10	10 - 24	25 - 50	> 50	
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT					
COMM. AGE:					
	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:	(cm)	
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	(cm)	

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
INCLUSION	
CODE:	
COMPLEX	
CODE:	

Notes:

Wildlife

Weather information is recorded on the Wildlife data card. Such information can be useful for helping to interpret records or results.

Temperature: Record of approximate ambient temperature (°C) during the field survey.

Cloud: Record, in tenths, the proportion of the sky covered by clouds.

Wind: Record the Beaufort Scale number according to Table 20

Table 20. Beaufort Wind Scale (adapted from Whittow 1984).

0	Calm	smoke rises vertically
1	Light Air	smoke drifts, but wind vanes do not
2	Light Breeze	wind felt on face, leaves rustle
3	Gentle Breeze	leaves and small twigs in constant motion; light flags extended
4	Moderate Breeze	wind raises dust and loose paper; small branches move
5	Fresh Breeze	small trees in leaf begin to sway
6	Strong Breeze	large branches in motion; whistling in phone wires; umbrella use difficult
7	Near Gale	whole trees in motion; inconvenience felt when walking against wind
8	Gale	twigs break off trees; progress impeded
9	Strong Gale	slight structural damage – roofing shingles, TV antennae
10	Storm	trees uprooted; considerable structural damage

Precipitation: Brief statement of precipitation, e.g., none, steady rain, fog.

Conditions: Brief statement of conditions, surveyor mood, etc., which might affect the survey; a text field of 50 characters.

Indicate the presence of Potential Wildlife Habitat by checking the appropriate box of features that are present within the polygon.

Wildlife: All wildlife sightings and signs should be recorded while in the polygon. Record each sighting by type (TY) (B = bird, H = herpetofauna, etc.) and by species (SP. CODE). Use four-letter codes, provided in the database, for recording species.

Evidence Codes: (EV) should be used to record the type of observation. If possible, give an indication of the estimated number of individuals, pairs or signs for each wildlife species.

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>Freshwater Lake, B</u>		POLYGON: <u>3</u>	
	SURVEYOR(S): <u>BB/CE</u>		DATE: <u>JUNE 9/00</u>	UTME
	START	END	UTMZ	UTMN

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL. UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
SITE <input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK		COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED			

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	T. ARDEN > G. ABT = B. CHERUS
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER			Scrubland Forest

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 50% 4 = CVR > 50%

STAND COMPOSITION:					BA:
SIZE CLASS ANALYSIS:	< 10	10 - 24	25 - 50	> 50	
STANDING SNAGS:	< 10	10 - 24	25 - 50	> 50	
DEADFALL / LOGS:	< 10	10 - 24	25 - 50	> 50	
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT					
COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:	(cm)	
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	(cm)	

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
INCLUSION	CODE:
COMPLEX	CODE:

Notes:

Page of

Wildlife

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Temperature: Record of approximate ambient temperature (°C) during the field survey.

Cloud: Record, in tenths, the proportion of the sky covered by clouds.

Wind: Record the Beaufort Scale number according to Table 20

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0	Calm	smoke rises vertically
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3	Gentle Breeze	leaves and small twigs in constant motion; light flags extended
4	Moderate Breeze	wind raises dust and loose paper; small branches move
5	Fresh Breeze	small trees in leaf begin to sway
6	Strong Breeze	large branches in motion; whistling in phone wires; umbrella use difficult
7	Near Gale	whole trees in motion; inconvenience felt when walking against wind
8	Gale	twigs break off trees; progress impeded
9	Strong Gale	slight structural damage – roofing shingles, TV antennae
10	Storm	trees uprooted; considerable structural damage

Precipitation: Brief statement of precipitation, e.g., none, steady rain, fog.

Conditions: Brief statement of conditions, surveyor mood, etc., which might affect the survey; a text field of 50 characters.

Indicate the presence of Potential Wildlife Habitat by checking the appropriate box of features that are present within the polygon.

Wildlife: All wildlife sightings and signs should be recorded while in the polygon. Record each sighting by type (TY) (B = bird, H = herpetofauna, etc.) and by species (SP. CODE). Use four-letter codes, provided in the database, for recording species.

Evidence Codes: (EV) should be used to record the type of observation. If possible, give an indication of the estimated number of individuals, pairs or signs for each wildlife species.

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>Feather Lake Rd</u>		POLYGON: <u>2</u>	
	SURVEYOR(S): <u>BA/SR</u>		DATE: <u>JUNE 7/20</u>	UTME
	START	END	UTMZ	UTMN

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL. UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input type="checkbox"/> NATURAL <input checked="" type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input checked="" type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
SITE <input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK		COVER <input checked="" type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input type="checkbox"/> TREED			

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY			
2 SUB-CANOPY			
3 UNDERSTOREY			
4 GRD. LAYER	5	4	Blue Ridge >> Scrub - Pine

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR ; 10% 2 = 10 < CVR ; 25% 3 = 25 < CVR ; 50% 4 = CVR > 50%

STAND COMPOSITION:

SIZE CLASS ANALYSIS:					BA:
	< 10	10 - 24	25 - 50	> 50	
STANDING SNAGS:	< 10	10 - 24	25 - 50	> 50	
DEADFALL / LOGS:	< 10	10 - 24	25 - 50	> 50	
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT					
COMM. AGE:	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:		(cm)
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:		(cm)

COMMUNITY CLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
INCLUSION	CODE:
COMPLEX	CODE:

Notes:

NOTES:

Wildlife

Weather information is recorded on the Wildlife data card. Such information can be useful for helping to interpret records or results.

Temperature: Record of approximate ambient temperature (°C) during the field survey.

Cloud: Record, in tenths, the proportion of the sky covered by clouds.

Wind: Record the Beaufort Scale number according to Table 20

Table 20. Beaufort Wind Scale (adapted from Whittow 1984).

0	Calm	smoke rises vertically
1	Light Air	smoke drifts, but wind vanes do not
2	Light Breeze	wind felt on face, leaves rustle
3	Gentle Breeze	leaves and small twigs in constant motion; light flags extended
4	Moderate Breeze	wind raises dust and loose paper; small branches move
5	Fresh Breeze	small trees in leaf begin to sway
6	Strong Breeze	large branches in motion; whistling in phone wires; umbrella use difficult
7	Near Gale	whole trees in motion; inconvenience felt when walking against wind
8	Gale	twigs break off trees; progress impeded
9	Strong Gale	slight structural damage – roofing shingles, TV antennae
10	Storm	trees uprooted; considerable structural damage

Precipitation: Brief statement of precipitation, e.g., none, steady rain, fog.

Conditions: Brief statement of conditions, surveyor mood, etc., which might affect the survey; a text field of 50 characters.

Indicate the presence of Potential Wildlife Habitat by checking the appropriate box of features that are present within the polygon.

Wildlife: All wildlife sightings and signs should be recorded while in the polygon. Record each sighting by type (TY) (B = bird, H = herpetofauna, etc.) and by species (SP. CODE). Use four-letter codes, provided in the database, for recording species.

Evidence Codes: (EV) should be used to record the type of observation. If possible, give an indication of the estimated number of individuals, pairs or signs for each wildlife species.

ELC COMMUNITY DESCRIPTION & CLASSIFICATION	SITE: <u>FERGUSON CR. LD</u>		POLYGON: <u>1</u>	
	SURVEYOR(S) <u>DD/SR</u>		DATE <u>JUNE 7/20</u>	
	START	END	UTMZ	UTMN

POLYGON DESCRIPTION

SYSTEM	SUBSTRATE	TOPOGRAPHIC FEATURE	HISTORY	PLANT FORM	COMMUNITY
<input checked="" type="checkbox"/> TERRESTRIAL <input type="checkbox"/> WETLAND <input type="checkbox"/> AQUATIC	<input type="checkbox"/> ORGANIC <input checked="" type="checkbox"/> MINERAL SOIL <input type="checkbox"/> PARENT MIN <input type="checkbox"/> ACIDIC BEDRK <input type="checkbox"/> BASIC BEDRK <input type="checkbox"/> CARB. BEDRK	<input type="checkbox"/> LACUSTRINE <input type="checkbox"/> RIVERINE <input type="checkbox"/> BOTTOMLAND <input type="checkbox"/> TERRACE <input type="checkbox"/> VALLEY SLOPE <input type="checkbox"/> TABLELAND <input type="checkbox"/> ROLL UPLAND <input type="checkbox"/> CLIFF <input type="checkbox"/> TALUS <input type="checkbox"/> CREVICE / CAVE <input type="checkbox"/> ALVAR <input type="checkbox"/> ROCKLAND <input type="checkbox"/> BEACH / BAR <input type="checkbox"/> SAND DUNE <input type="checkbox"/> BLUFF	<input checked="" type="checkbox"/> NATURAL <input type="checkbox"/> CULTURAL	<input type="checkbox"/> PLANKTON <input type="checkbox"/> SUBMERGED <input type="checkbox"/> FLOATING-LVD <input type="checkbox"/> GRAMINOID <input type="checkbox"/> FORB <input type="checkbox"/> LICHEN <input type="checkbox"/> BRYOPHYTE <input type="checkbox"/> DECIDUOUS <input type="checkbox"/> CONIFEROUS <input type="checkbox"/> MIXED	<input type="checkbox"/> LAKE <input type="checkbox"/> POND <input type="checkbox"/> RIVER <input type="checkbox"/> STREAM <input type="checkbox"/> MARSH <input type="checkbox"/> SWAMP <input type="checkbox"/> FEN <input type="checkbox"/> BOG <input type="checkbox"/> BARREN <input type="checkbox"/> MEADOW <input type="checkbox"/> PRAIRIE <input type="checkbox"/> THICKET <input type="checkbox"/> SAVANNAH <input type="checkbox"/> WOODLAND <input type="checkbox"/> FOREST <input type="checkbox"/> PLANTATION
SITE <input type="checkbox"/> OPEN WATER <input type="checkbox"/> SHALLOW WATER <input type="checkbox"/> SURFICIAL DEP. <input type="checkbox"/> BEDROCK		COVER <input type="checkbox"/> OPEN <input type="checkbox"/> SHRUB <input checked="" type="checkbox"/> TREED			

STAND DESCRIPTION:

LAYER	HT	CVR	SPECIES IN ORDER OF DECREASING DOMINANCE (>> MUCH GREATER THAN; > GREATER THAN; = ABOUT EQUAL TO)
1 CANOPY	2	4	AM. BEECH > SUGAR MAPLE = R. OAK
2 SUB-CANOPY			1 REDWOOD.
3 UNDERSTOREY			
4 GRD. LAYER			

HT CODES: 1 = >25 m 2 = 10<HT<25 m 3 = 2<HT<10 m 4 = 1<HT<2 m 5 = 0.5<HT<1 m 6 = 0.2<HT<0.5 m 7 = HT<0.2 m
CVR CODES: 0 = NONE 1 = 0% < CVR < 10% 2 = 10 < CVR < 25% 3 = 25 < CVR < 60% 4 = CVR > 60%

STAND COMPOSITION:					BA:
SIZE CLASS ANALYSIS:					
	< 10	10 - 24	25 - 50	> 50	
STANDING SNAGS:					
	< 10	10 - 24	25 - 50	> 50	
DEADFALL / LOGS:					
	< 10	10 - 24	25 - 50	> 50	
ABUNDANCE CODES: N = NONE R = RARE O = OCCASIONAL A = ABUNDANT					
COMM. AGE:					
	PIONEER	YOUNG	MID-AGE	MATURE	OLD GROWTH

SOIL ANALYSIS:

TEXTURE:	DEPTH TO MOTTLES / GLEY	g =	G =
MOISTURE:	DEPTH OF ORGANICS:	(cm)	
HOMOGENEOUS / VARIABLE	DEPTH TO BEDROCK:	(cm)	

COMMUNITYCLASSIFICATION:

COMMUNITY CLASS:	CODE:
COMMUNITY SERIES:	CODE:
ECOSITE:	CODE:
VEGETATION TYPE:	CODE:
INCLUSION	CODE:
COMPLEX	CODE:

Notes:

GENERAL INFORMATION									
PROJECT #: 20501-1		PROJECT DESCRIPTION: Ferguson Cr. Rd		DAY: 04	MONTH: June	YEAR: 2020			
Is STREAM REALIGNMENT required for this section: <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown									
COLLECTORS: H. L. H. - D. C. S.		WEATHER CONDITIONS: Sunny		TIME STARTED: 5:20		TIME FINISHED: 5:49			
AIR TEMP: 25°C		WATER TEMP:			CONDUCTIVITY (µS/cm):				
PHOTO NUMBERS AND DESCRIPTIONS:									
LOCATION									
NAME OF WATERBODY:		DRAINAGE SYSTEM:		CROSSING #: CV-01455		STATION #: 4+000			
LOCATION OF CROSSING: Ferguson Cr. Rd @ 4+000									
GPS COORDINATES: LBT 354747 5017706				MTO CHAINAGE:					
TOWNSHIP: Greater Madawaska				MNR DISTRICT: Pembroke					
LAND USE AND POLLUTION									
SURROUNDING LAND USE: Vacant Land/Recreation				SOURCES OF POLLUTION: Road Runoff					
EXISTING STRUCTURE TYPE									
Bridge <input type="radio"/>		Box Culvert <input type="radio"/>		Open Foot Culvert <input type="radio"/>		CSP <input checked="" type="radio"/>		N/A <input type="radio"/>	
Other <input type="radio"/> Describe:						Size (w x h) m ² 600			
SECTION TYPE AND MORPHOLOGY									
SECTION IDENTIFIER:				SECTION LOCATION: (include on habitat map)					
TYPE:	Stream / river <input type="radio"/>	Channelized <input type="radio"/>	Permanent <input checked="" type="radio"/>	Intermittent <input type="radio"/>	Ephemeral <input type="radio"/>	ASSOCIATED WETLAND:			
TOTAL SECTION LENGTH (m):				CURRENT VELOCITY (m/s):					
SUB-SECTION(S)	Run <input type="radio"/>	Pool <input type="radio"/>	Riffle <input type="radio"/>	Flats <input type="radio"/>	Inside culvert <input type="radio"/>	Other			
Percentage of area	40		60						
Mean depth wetted (m)	0.04		0.04						
Mean width wetted (m)	0.62		0.6						
Mean bankfull width (m)									
Mean bankfull depth (m)									
Substrate	Sa/Gr		Bo/Co/Gr						
Bedrock Br	Boulder Bo	Cobble Co	Gravel Gr	Sand Sa	Silt Si	Clay Cl	Muck Mu	Detritus D	

BANK STABILITY							
	Stable	Slightly Unstable	Moderately Unstable	Unstable			
Left Upstream Bank	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Right Upstream Bank	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
HABITAT							
IN-STREAM COVER (% surface area):	Undercut banks 0	Boulders 45	Cobble 45	Woody Debris Instream 10 Overhanging	Organic debris 0	Vascular Macrophytes Instream 0 Overhanging 0	None 0
SHORE COVER (% stream shaded):	100 – 90 % 20	90 – 60% 0	60- 30% 0	30 – 1% 0	None 0		
VEGETATION TYPE (%):	Submergent		Floating		Emergent		None
Predominant Species							100
MIGRATORY OBSTRUCTIONS:	None		Seasonal		Permanent STEEP CHANNEL.		
POTENTIAL CRITICAL HABITAT LIMITING:	Spawning		Evidence of Groundwater		Other		
POTENTIAL ENHANCEMENT OPPORTUNITIES:							
COMMENTS:							
<p>STEEP CHANNEL ALONG ROADSIDE. NO UPSTREAM PASSAGE OF FISH POSSIBLE. MAY HAVE CONNECTION TO D/S CU-00454. SEASONALITY OF FLOW TO BE CONFIRMED</p>							
Additional Notes Appended? <input type="radio"/> No <input type="radio"/> Yes number of pages _____							

Page 3 of 5

GENERAL INFORMATION									
PROJECT #: 20501-1		PROJECT DESCRIPTION: Ferguson Lake Rd		DAY: 8	MONTH: 6	YEAR: 2020			
Is STREAM REALIGNMENT required for this section:									
<input type="radio"/> Yes <input type="radio"/> No <input checked="" type="radio"/> Unknown									
COLLECTORS: S. Reynolds, D. Davison		WEATHER CONDITIONS: Cloudy		TIME STARTED: 7:15 pm		TIME FINISHED: 8:30 pm			
AIR TEMP: 20°C		WATER TEMP:			CONDUCTIVITY (µS/cm):				
PHOTO NUMBERS AND DESCRIPTIONS:									
LOCATION									
NAME OF WATERBODY:		DRAINAGE SYSTEM:		CROSSING #: CV-00468	STATION #: 7+865				
LOCATION OF CROSSING: Ferguson Lake Rd @ S.W. 7+865									
GPS COORDINATES: 18° 35' 22.13" N, 50° 20' 04.0" W				MTO CHAINAGE:					
TOWNSHIP: Greater Toronto Area				MNR DISTRICT: Peel Region					
LAND USE AND POLLUTION									
SURROUNDING LAND USE: Agricultural fields to east, forest to west				SOURCES OF POLLUTION: Roadway pollutants / runoff					
EXISTING STRUCTURE TYPE									
Bridge <input type="radio"/>		Box Culvert <input type="radio"/>		Open Foot Culvert <input type="radio"/>		CSP <input checked="" type="radio"/>		N/A <input type="radio"/>	
Other <input type="radio"/> Describe:						Size (w x h) m ² 1000 mm CSP			
SECTION TYPE AND MORPHOLOGY									
SECTION IDENTIFIER:				SECTION LOCATION: (include on habitat map)					
TYPE:	Stream / river <input type="radio"/>	Channelized <input type="radio"/>	Permanent <input checked="" type="radio"/>	Intermittent <input checked="" type="radio"/>	Ephemeral <input type="radio"/>	ASSOCIATED WETLAND: NONE			
TOTAL SECTION LENGTH (m):				CURRENT VELOCITY (m/s): 0.38 m/s (D/S)					
SUB-SECTION(S)	Run <input type="radio"/>	Pool <input checked="" type="radio"/>	Riffle <input checked="" type="radio"/>	Flats <input type="radio"/>	Inside culvert <input type="radio"/>	Other			
Percentage of area		80% 302	20% 702						
Mean depth wetted (m)		0.10m 0.16m	0.50m 0.06m		0.04m 0.10m				
Mean width wetted (m)		0.65m 1.0m	0.05m 0.6m		0.72m 0.67m				
Mean bankfull width (m)		0.75m 1.2m	0.70m 1.0m		- -				
Mean bankfull depth (m)		0.73m 0.6m	0.50m 0.6m		- -				
Substrate		Gr Sand B Co Gr	B Co Gr	B Co Gr	- -	Gr			
Bedrock Br	Boulder Bo	Cobble Co	Gravel Gr	Sand Sa	Silt Si	Clay Cl	Muck Mu	Detritus D	

BANK STABILITY							
	Stable	Slightly Unstable	Moderately Unstable	Unstable			
Left Upstream Bank	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Right Upstream Bank	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
HABITAT							
IN-STREAM COVER (% surface area):	Undercut banks	Boulders	Cobble	Woody Debris	Organic debris	Vascular Macrophytes	None
	20	10	10	Instream 0 Overhanging 0	0	Instream 0 Overhanging 40 Grasses	20
SHORE COVER (% stream shaded):	100 – 90 %	90 – 60%	60-30%	30 – 1%	None		
	<input type="radio"/>	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>		
VEGETATION TYPE (%):	Submergent		Floating		Emergent		None
Predominant Species							100
MIGRATORY OBSTRUCTIONS:	None		Seasonal		Permanent		
					Multiple barriers + transition to under ground		
POTENTIAL CRITICAL HABITAT LIMITING:	Spawning		Evidence of Groundwater		Other		
	None		None				
POTENTIAL ENHANCEMENT OPPORTUNITIES:							
COMMENTS:							
<p>④ Localized system that transitions to underground flow ~ 25m downstream.</p> <ul style="list-style-type: none"> - Multiple barriers upstream so no opportunity for migrating fish to use culvert location - No fish observed. - Culvert outlet is perched by approx. 0.07m 							
Additional Notes Appended? <input type="radio"/> No <input type="radio"/> Yes number of pages _____							

SECTION IDENTIFIER: D/S		SECTION LOCATION: D/S		SECTION LENGTH (m): ~40m		SCALE (cm / m): —	
						PROJECT #: 20501-1	
						MAPPER: S. Reynolds	
						NAME OF WATERBODY:	
						CROSSING #: CV-00468	
						STATION #: 7+865	
DATE: DD-MMM-YY 08-06-2020						LEGEND 10d depth (cm) 6w width ➡ Riffle ⇨ Run/Glide ○ Pool ■ Island/Bar ▨ Fine Substrate ### Gravel Substrate ○ Cobble / Boulder *** Debris CT Cattail SV/FV Submerg/Float Veg EV Emergent Vegetation W Watercress Fe Iron Staining ///// Eroded Bank XXX Riprap / Other Stabilization ○ Instream Log/Tree ^ Dam/Weir/Obstruction ® Riparian Tree Seep/Spring ----- Undercut Bank — Barrier to Fish Movement -S- Seasonal Barrier -x-x- Fence line □ Culvert	
PROFILE:		Horz. Scale		Vert. Scale			

INCISED CHANNEL
BANKFULL = 0.6
DEPTH

GENERAL INFORMATION									
PROJECT #: 20501-1		PROJECT DESCRIPTION: FERGUSON LK. RD.		DAY: 04	MONTH: JUNE	YEAR: 2020			
Is STREAM REALIGNMENT required for this section: <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown									
COLLECTORS: A. WILKES		WEATHER CONDITIONS: Sun / Cloud		TIME STARTED: 8:30		TIME FINISHED: 8:50			
AIR TEMP: 23°C			WATER TEMP:			CONDUCTIVITY (µS/cm):			
PHOTO NUMBERS AND DESCRIPTIONS:									
LOCATION									
NAME OF WATERBODY: TRIB OF COUNTRY CREEK		DRAINAGE SYSTEM:		CROSSING #:		STATION #: 6+875			
LOCATION OF CROSSING: CHANNEL ADJACENT EXT. OF ROAD @ 6+875									
GPS COORDINATES: 18T 353056 5019513				MTO CHAINAGE:					
TOWNSHIP: GREENE MAGNAN				MNR DISTRICT: Pembroke					
LAND USE AND POLLUTION									
SURROUNDING LAND USE: VACANT / RECREATION				SOURCES OF POLLUTION: ROAD RUNOFF					
EXISTING STRUCTURE TYPE									
<input type="radio"/> Bridge		<input type="radio"/> Box Culvert		<input type="radio"/> Open Foot Culvert		<input type="radio"/> CSP		<input type="radio"/> N/A	
Other <input type="radio"/> Describe: CHANNEL TWIN 30m OF ROAD						Size (w x h) m ²			
SECTION TYPE AND MORPHOLOGY									
SECTION IDENTIFIER:			SECTION LOCATION: (include on habitat map)						
TYPE:	Stream / river <input type="radio"/>	Channelized <input type="radio"/>	Permanent <input checked="" type="radio"/>	Intermittent <input type="radio"/>	Ephemeral <input type="radio"/>	ASSOCIATED WETLAND:			
TOTAL SECTION LENGTH (m):				CURRENT VELOCITY (m/s):					
SUB-SECTION(S)	Run <input type="radio"/>	Pool <input type="radio"/>	Riffle <input type="radio"/>	Flats <input type="radio"/>	Inside culvert <input type="radio"/>	Other			
Percentage of area		5		19.5					
Mean depth wetted (m)		0.1		0.2					
Mean width wetted (m)		2.5		2.0					
Mean bankfull width (m)									
Mean bankfull depth (m)									
Substrate		Mud / D/Sa			Mud / D/Sa				
Bedrock Br	Boulder Bo	Cobble Co	Gravel Gr	Sand Sa	Silt Si	Clay Cl	Muck Mu	Detritus D	

BANK STABILITY							
	Stable	Slightly Unstable	Moderately Unstable	Unstable			
Left Upstream Bank	0	0	0	0			
Right Upstream Bank	0	0	0	0			
HABITAT							
IN-STREAM COVER (% surface area):	Undercut banks	Boulders	Cobble	Woody Debris	Organic debris	Vascular Macrophytes	None
	/	/	/	Instream 10 Overhanging	0	Instream Overhanging 50	40
SHORE COVER (% stream shaded):	100 - 90 %	90 - 60%	60-30%	30 - 1%	None		
	X	0	0	0	0		
VEGETATION TYPE (%)	Submergent		Floating		Emergent		None
Predominant Species	0		0		0		100
MIGRATORY OBSTRUCTIONS:	None		Seasonal		Permanent		
	X						
POTENTIAL CRITICAL HABITAT LIMITING:	Spawning		Evidence of Groundwater		Other		
POTENTIAL ENHANCEMENT OPPORTUNITIES:							
COMMENTS:							
<p>PERM. WATERCOURSE TO CONNECTION TO CROFTON CREEK.</p> <p>NO CUT @ LOCATION BUT WATERCOURSE WITHIN 30m OF ROADWAY (10-12m)</p> <p>SPECIES ADJACENT LINED CHANNEL</p>							
Additional Notes Appended? <input type="radio"/> No <input type="radio"/> Yes number of pages _____							

Page 3 of 5

GENERAL INFORMATION										
PROJECT #: 20501-1		PROJECT DESCRIPTION: FERGUSON LK RD		DAY: 04	MONTH: JUNE	YEAR: 2020				
Is STREAM REALIGNMENT required for this section: <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown										
COLLECTORS: A. L. L. - SW/DO		WEATHER CONDITIONS: Sun / Cloud		TIME STARTED: 7:55		TIME FINISHED: 8:20				
AIR TEMP: 25°C		WATER TEMP:			CONDUCTIVITY (µS/cm):					
PHOTO NUMBERS AND DESCRIPTIONS:										
LOCATION										
NAME OF WATERBODY: Trib of Constance Cr		DRAINAGE SYSTEM:		CROSSING #: CV-00463		STATION #: 6+020				
LOCATION OF CROSSING: FERGUSON LAKE RD. @ SW. 6+020										
GPS COORDINATES: 1BT 354418				MTO CHAINAGE:						
TOWNSHIP: GREASER HADAMUCKA				MNR DISTRICT: TERRACE						
LAND USE AND POLLUTION										
SURROUNDING LAND USE: Vacant / Recreational				SOURCES OF POLLUTION: Roadside Runoff						
EXISTING STRUCTURE TYPE										
Bridge <input type="radio"/>		Box Culvert <input type="radio"/>		Open Foot Culvert <input type="radio"/>		CSP <input type="radio"/>		N/A <input type="radio"/>		
Other <input type="radio"/> Describe:						Size (w x h) m ² 1050 mm x 2				
SECTION TYPE AND MORPHOLOGY										
SECTION IDENTIFIER:				SECTION LOCATION: (include on habitat map)						
TYPE:	Stream / river <input type="radio"/>	Channelized <input type="radio"/>	Permanent <input checked="" type="radio"/>	Intermittent <input type="radio"/>	Ephemeral <input type="radio"/>	ASSOCIATED WETLAND:				
TOTAL SECTION LENGTH (m):				CURRENT VELOCITY (m/s):						
SUB-SECTION(S)	Run <input type="radio"/>	Pool <input type="radio"/>	Riffle <input type="radio"/>	Flats <input type="radio"/>	Inside culvert <input type="radio"/>	Other				
Percentage of area	5	60	20	95	20					
Mean depth wetted (m)	0.25	0.4	55	0.28	0.3					
Mean width wetted (m)	1.0	1.5	0.4	3	5.0					
Mean bankfull width (m)										
Mean bankfull depth (m)										
Substrate	SM		D, M, S, M	D, M						
Bedrock Br	Boulder Bo	Cobble Co	Gravel Gr	Sand Sa	Silt Si	Clay Cl	Muck Mu	Detritus D		


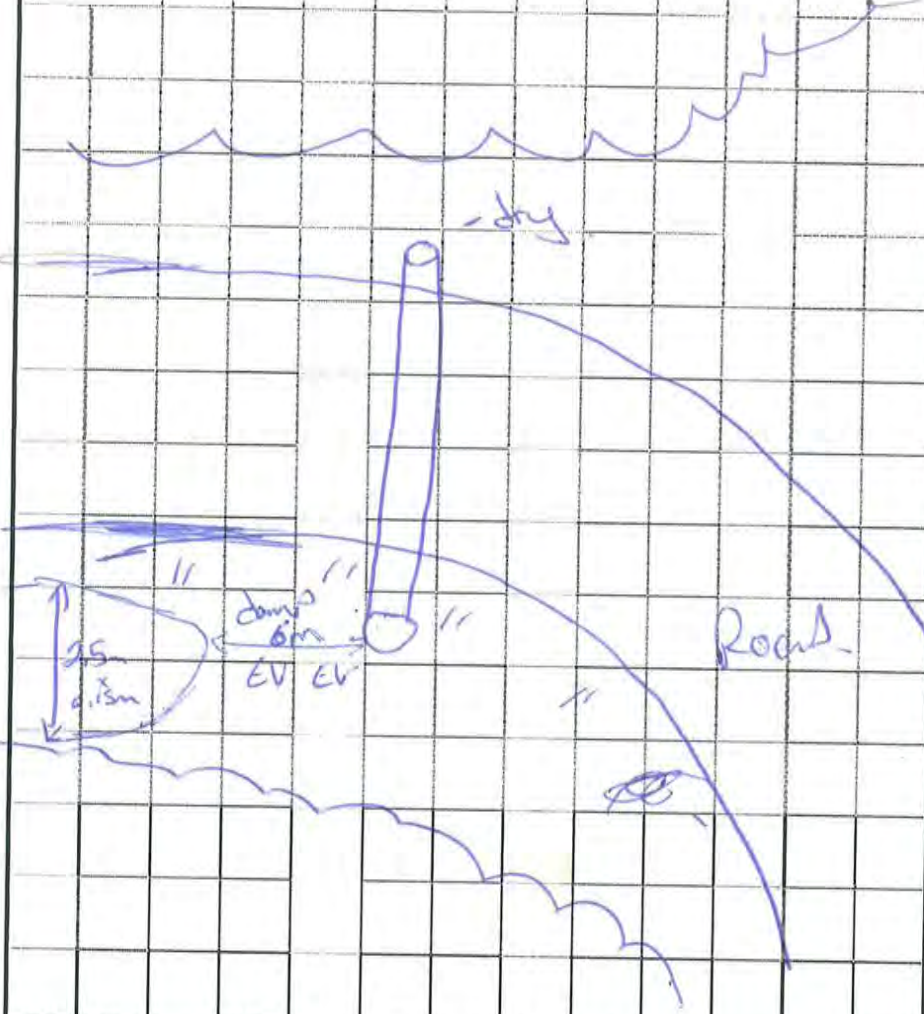
BANK STABILITY							
	Stable	Slightly Unstable	Moderately Unstable	Unstable			
Left Upstream Bank	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Right Upstream Bank	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
HABITAT							
IN-STREAM COVER (% surface area):	Undercut banks 0	Boulders 0	Cobble 0	Woody Debris Instream 25 Overhanging	Organic debris 5	Vascular Macrophytes Instream 25 Overhanging 0	None 45
SHORE COVER (% stream shaded):	100 - 90 % 0	90 - 60 % 0	60 - 30 % 0	30 - 1 % <input checked="" type="radio"/>	None 0		
VEGETATION TYPE (%)	Submergent 25		Floating —		Emergent —		None 75
Predominant Species	EEL GRASS						
MIGRATORY OBSTRUCTIONS:	None X		Seasonal		Permanent		
POTENTIAL CRITICAL HABITAT LIMITING:	Spawning		Evidence of Groundwater		Other		
POTENTIAL ENHANCEMENT OPPORTUNITIES:							
REMOVE DEBRIS @ CULVERT							
COMMENTS:							
PERMANENT DITCH FOR 1400. FLOW FROM WETLAND TO GONSMITH CR							
Additional Notes Appended? <input type="radio"/> No <input type="radio"/> Yes number of pages _____							

SECTION IDENTIFIER: W/S		SECTION LOCATION:		SECTION LENGTH (m):		SCALE (cm / m):	
						PROJECT #: 20501-1	
						MAPPER: DD	
						NAME OF WATERBODY: TRIG or Coniston Ck.	
						CROSSING #: CV-00463	
						STATION #: 6 + 020	
						DATE: DD-MMM-YY 04-06-20	
						LEGEND	
10d depth (cm) 6w width → Riffle ⇨ Run/Glide ○ Pool ■ Island/Bar ■ Fine Substrate ### Gravel Substrate oOooO Cobble / Boulder *** Debris CT Cattail SV/FV Submerg/Float Veg EV Emergent Vegetation W Watercress Fe Iron Staining ///// Eroded Bank XXX Riprap / Other Stabilization ○ Instream Log/Tree ^^^ Dam/Weir/Obstruction ® Riparian Tree ↳ Seep/Spring ----- Undercut Bank — Barrier to Fish Movement -S- Seasonal Barrier -x-x- Fence line □ Culvert							
PROFILE:		Horz. Scale		Vert. Scale			

Page 3 of 5


GENERAL INFORMATION									
PROJECT #: 20501-1		PROJECT DESCRIPTION: FERGUSON LAKE RD		DAY: 04	MONTH: JUNE	YEAR: 2020			
Is STREAM REALIGNMENT required for this section: <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown									
COLLECTORS: HAWES - SW/DO		WEATHER CONDITIONS: Sun / Cloud		TIME STARTED: 7:31		TIME FINISHED: 7:50			
AIR TEMP: 25°C		WATER TEMP:			CONDUCTIVITY (µS/cm):				
PHOTO NUMBERS AND DESCRIPTIONS:									
LOCATION									
NAME OF WATERBODY: Pembroke Drainage To Gurdys Cr.		DRAINAGE SYSTEM:		CROSSING #: CV-00461	STATION #: S+718				
LOCATION OF CROSSING: FERGUSON LAKE RD - SW - S+718									
GPS COORDINATES: 187.353703, 5018741				MTO CHAINAGE:					
TOWNSHIP: GREYHOUND MOUNTAIN				MNR DISTRICT: PEMBROKE					
LAND USE AND POLLUTION									
SURROUNDING LAND USE: VACANT / RECREATION				SOURCES OF POLLUTION: ROADSIDE RUNOFF					
EXISTING STRUCTURE TYPE									
Bridge <input type="radio"/>		Box Culvert <input type="radio"/>		Open Foot Culvert <input type="radio"/>		CSP <input checked="" type="radio"/>		N/A <input type="radio"/>	
Other <input type="radio"/> Describe:						Size (w x h) m ² 600 mm			
SECTION TYPE AND MORPHOLOGY									
SECTION IDENTIFIER:				SECTION LOCATION: (include on habitat map)					
TYPE:	Stream / river <input type="radio"/>	Channelized <input type="radio"/>	Permanent <input type="radio"/>	Intermittent <input type="radio"/>	Ephemeral <input checked="" type="radio"/>	ASSOCIATED WETLAND:			
TOTAL SECTION LENGTH (m):				CURRENT VELOCITY (m/s):					
SUB-SECTION(S)	Run <input type="radio"/>	Pool <input type="radio"/>	Riffle <input type="radio"/>	Flats <input type="radio"/>	Inside culvert <input type="radio"/>	Other			
Percentage of area		100				DRY			
Mean depth wetted (m)		0.15				6m Feen			
Mean width wetted (m)		2.5				WATER			
Mean bankfull width (m)		—							
Mean bankfull depth (m)		—							
Substrate		Mu/D							
Bedrock Br	Boulder Bo	Cobble Co	Gravel Gr	Sand Sa	Silt Si	Clay Cl	Muck Mu	Detritus D	

BANK STABILITY							
	Stable	Slightly Unstable	Moderately Unstable	Unstable			
Left Upstream Bank	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Right Upstream Bank	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
HABITAT							
IN-STREAM COVER (% surface area):	Undercut banks	Boulders	Cobble	Woody Debris	Organic debris	Vascular Macrophytes	None
	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	Instream 10 Overhanging	15	Instream 25 Overhanging	50
SHORE COVER (% stream shaded):	100 - 90 %	90 - 60%	60- 30%	30 - 1%	None		
	<input type="radio"/>	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
VEGETATION TYPE (%):	Submergent		Floating		Emergent		None
	<input type="radio"/>		<input type="radio"/>		25		75
Predominant Species					GRASSES / CATTAILS		
MIGRATORY OBSTRUCTIONS:	None		Seasonal		Permanent		
			LOW WATER PREVENTS DIRECT CONNECTION TO CONTINENT CREEK		TO CONTINENT CREEK		
POTENTIAL CRITICAL HABITAT LIMITING:	Spawning		Evidence of Groundwater		Other		
POTENTIAL ENHANCEMENT OPPORTUNITIES:							
COMMENTS:							
<p>EPHEMERAL FLOW TO CHANNEL TO CONNECTION TO CONTINENT CREEK (SEASONAL CONNECTION ONLY)</p> <p>NO HABITAT W/ OF CULVERT.</p> <p>FISH WOULD GET TRAPPED @ LOCATION</p>							
Additional Notes Appended? <input type="radio"/> No <input type="radio"/> Yes number of pages _____							

SECTION IDENTIFIER:		SECTION LOCATION:		SECTION LENGTH (m):		SCALE (cm / m):	
 						PROJECT #:	
						MAPPER: STW	
						NAME OF WATERBODY:	
						CROSSING #: CU00461	
						STATION #: 5+718	
						DATE: DD-MMM-YY 04/06/20	
<p>LEGEND</p> <p>10d depth (cm) 6w width</p> <p>→ Riffle ⇒ Run/Glide ○ Pool ■ Island/Bar ■ Fine Substrate ### Gravel Substrate o o o o Cobble / Boulder * * * Debris CT Cattail SV/FV Submerg/Float Veg EV Emergent Vegetation W Watercress Fe Iron Staining ///// Eroded Bank xxx Riprap / Other Stabilization ○ Instream Log/Tree ^^^ Dam/Weir/Obstruction ® Riparian Tree └─ Seep/Spring ----- Undercut Bank — Barrier to Fish Movement -S- Seasonal Barrier -x-x- Fence line ┌─ Culvert</p>							
PROFILE:		Horz. Scale		Vert. Scale			

GENERAL INFORMATION									
PROJECT #: 20501-1		PROJECT DESCRIPTION: FERGUSON LK RD		DAY: 04	MONTH: JUNE	YEAR: 2020			
Is STREAM REALIGNMENT required for this section: <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown									
COLLECTORS: AHLER - DD/SW		WEATHER CONDITIONS: Sunny		TIME STARTED: 7:15		TIME FINISHED: 7:25			
AIR TEMP: 25°C		WATER TEMP:			CONDUCTIVITY (µS/cm):				
PHOTO NUMBERS AND DESCRIPTIONS:									
LOCATION									
NAME OF WATERBODY: Roadside to Constance Cr.		DRAINAGE SYSTEM:		CROSSING #: CV-00460		STATION #: 5+515			
LOCATION OF CROSSING: FERGUSON LK RD @ 5+515									
GPS COORDINATES: 187 353822, 5018642				MTO CHAINAGE:					
TOWNSHIP: GREATER MONTREAL				MNR DISTRICT: PENBROKE					
LAND USE AND POLLUTION									
SURROUNDING LAND USE: VACANT / RECREATION				SOURCES OF POLLUTION: ROAD RUNOFF					
EXISTING STRUCTURE TYPE									
Bridge <input type="radio"/>		Box Culvert <input type="radio"/>		Open Foot Culvert <input type="radio"/>		CSP <input checked="" type="radio"/>		N/A <input type="radio"/>	
Other <input type="radio"/> Describe:						Size (w x h) m ² 600 mm			
SECTION TYPE AND MORPHOLOGY									
SECTION IDENTIFIER:				SECTION LOCATION: (Include on habitat map)					
TYPE:	Stream / river <input type="radio"/>	Channelized <input type="radio"/>	Permanent <input type="radio"/>	Intermittent <input type="radio"/>	Ephemeral <input checked="" type="radio"/>	ASSOCIATED WETLAND:			
TOTAL SECTION LENGTH (m):				CURRENT VELOCITY (m/s):					
SUB-SECTION(S)	Run <input type="radio"/>	Pool <input type="radio"/>	Riffle <input type="radio"/>	Flats <input type="radio"/>	Inside culvert <input type="radio"/>	Other			
Percentage of area									
Mean depth wetted (m)									
Mean width wetted (m)									
Mean bankfull width (m)									
Mean bankfull depth (m)									
Substrate									
Bedrock Br	Boulder Bo	Cobble Co	Gravel Gr	Sand Sa	Silt Si	Clay Cl	Muck Mu	Detritus D	

BANK STABILITY							
	Stable	Slightly Unstable	Moderately Unstable	Unstable			
Left Upstream Bank	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Right Upstream Bank	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
HABITAT							
IN-STREAM COVER (% surface area):	Undercut banks	Boulders	Cobble	Woody Debris Instream Overhanging	Organic debris	Vascular Macrophytes Instream Overhanging	None
SHORE COVER (% stream shaded):	100 – 90 % <input type="radio"/>	90 – 60% <input type="radio"/>	60- 30% <input type="radio"/>	30 – 1% <input type="radio"/>	None <input type="radio"/>		
VEGETATION TYPE (%):	Submergent		Floating		Emergent		None
Predominant Species							
MIGRATORY OBSTRUCTIONS:	None			Seasonal		Permanent	
POTENTIAL CRITICAL HABITAT LIMITING:	Spawning			Evidence of Groundwater		Other	
POTENTIAL ENHANCEMENT OPPORTUNITIES:							
COMMENTS:							
<p>CULVERT INDIRECTLY CONTRIBUTING TO CONTAMINATION CREEK → 15m TO CREEK.</p> <p>EMERGENT FROM THROUGH RICH HABITAT → FERNS, GRASSES, SEDGES.</p>							
Additional Notes Appended? <input type="radio"/> No <input type="radio"/> Yes number of pages _____							

SECTION IDENTIFIER:	SECTION LOCATION:	SECTION LENGTH (m):	SCALE (cm / m):
 <div style="font-size: 2em; font-family: cursive;">Constant Creek</div> <div style="display: flex; justify-content: space-around;"> <div>EV</div> <div>EV</div> </div> <div style="text-align: center;"> <div style="border: 1px solid black; width: 50px; height: 100px; margin: 0 auto;"></div> <div style="position: absolute; top: 0; right: 0; font-size: 0.8em;"> 0.3m x 0.02m 600m C&P </div> </div> <div style="font-size: 1.5em; font-family: cursive;">Road</div>		PROJECT #:	
		MAPPER:	
		NAME OF WATERBODY:	
		CROSSING #:	
		STATION #:	
		DATE: DD-MMM-YY	
<div style="text-align: center; font-weight: bold;">LEGEND</div> <div style="font-size: 0.8em;"> 10d depth (cm) 6w width ➡ Riffle ➡ Run/Glide ○ Pool ■ Island/Bar ■ Fine Substrate ### Gravel Substrate oOooO Cobble /Boulder * * * Debris CT Cattail SV/FV Submerg/Float Veg EV Emergent Vegetation W Watercress Fe Iron Staining ///// Eroded Bank xxx Riprap / Other Stabilization ○ Instream Log/Tree ^^^ Dam/Weir/Obstruction ® Riparian Tree ▶ Seep/Spring ----- Undercut Bank — Barrier to Fish Movement -S- Seasonal Barrier -x-x- Fence line □ Culvert </div>			
		PROFILE: Horz. Scale Vert. Scale	

GENERAL INFORMATION									
PROJECT #: 20501-1		PROJECT DESCRIPTION: FERGUSON CR. RD		DAY: 04	MONTH: JUNE	YEAR: 2020			
Is STREAM REALIGNMENT required for this section: <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown									
COLLECTORS: HARRIS - DA/SW		WEATHER CONDITIONS: SUNNY		TIME STARTED: 6:20		TIME FINISHED: 7:00			
AIR TEMP: 25°C		WATER TEMP:			CONDUCTIVITY (µS/cm):				
PHOTO NUMBERS AND DESCRIPTIONS:									
LOCATION									
NAME OF WATERBODY:		DRAINAGE SYSTEM:		CROSSING #:		STATION #: 4+625			
LOCATION OF CROSSING: FERGUSON CR. RD - SW 4+625									
GPS COORDINATES: 18T 354520 5018137					MTO CHAINAGE:				
TOWNSHIP: GREATER HURON					MNR DISTRICT: Pembroke				
LAND USE AND POLLUTION									
SURROUNDING LAND USE: VACANT / RECREATION					SOURCES OF POLLUTION: ROADSIDE RUNOFF				
EXISTING STRUCTURE TYPE									
Bridge <input type="radio"/>		Box Culvert <input type="radio"/>		Open Foot Culvert <input type="radio"/>		CSP <input checked="" type="radio"/>		N/A <input type="radio"/>	
Other <input type="radio"/> Describe:						Size (w x h) m ² 1200 mm			
SECTION TYPE AND MORPHOLOGY									
SECTION IDENTIFIER:			SECTION LOCATION: (include on habitat map)						
TYPE:	Stream / river <input type="radio"/>	Channelized <input type="radio"/>	Permanent <input checked="" type="radio"/>	Intermittent <input type="radio"/>	Ephemeral <input type="radio"/>	ASSOCIATED WETLAND:			
TOTAL SECTION LENGTH (m):				CURRENT VELOCITY (m/s):					
SUB-SECTION(S)	Run <input type="radio"/>	Pool <input type="radio"/>	Riffle <input type="radio"/>	Flats <input type="radio"/>	Inside culvert <input type="radio"/>	Other			
Percentage of area	5	30	5	70	90				
Mean depth wetted (m)	0.25	0.3	0.35	0.16	0.16	0.07			
Mean width wetted (m)	3.0	1.3	1.1	0.76	1.2				
Mean bankfull width (m)	5	2.5	5	2.5	5				
Mean bankfull depth (m)	1.5	1.5	1.5	1.5	1.5				
Substrate	Bol/Gr	Bol/Gr	Bol/Gr	Bol/Gr	Bol/Gr				
Bedrock Br	Boulder Bo	Cobble Co	Gravel Gr	Sand Sa	Silt Si	Clay Cl	Muck Mu	Detritus D	

BANK STABILITY							
	Stable	Slightly Unstable	Moderately Unstable	Unstable			
Left Upstream Bank	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Right Upstream Bank	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
HABITAT							
IN-STREAM COVER (% surface area):	Undercut banks	Boulders	Cobble	Woody Debris	Organic debris	Vascular Macrophytes	None
	0	45	45	Instream 5 Overhanging 5	0	Instream 0 Overhanging 0	0
SHORE COVER (% stream shaded):	100 - 90 %	90 - 60%	60- 30%	30 - 1%	None		
	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>		
VEGETATION TYPE (%):	Submergent		Floating		Emergent		None
Predominant Species							100
MIGRATORY OBSTRUCTIONS:	None		Seasonal		Permanent		
					Multiple Fault		
POTENTIAL CRITICAL HABITAT LIMITING:	Spawning		Evidence of Groundwater		Other		
					Channel		
POTENTIAL ENHANCEMENT OPPORTUNITIES:							
COMMENTS:							
<p>SERIES OF RIFFLE - POOL FEATURES THROUGH STEEP INCLINE CHANNEL</p> <p>MULTIPLE BARRIERS THROUGH-OUT.</p> <p>PERMANENT WATERCOURSE.</p>							
Additional Notes Appended? <input type="radio"/> No <input type="radio"/> Yes number of pages _____							

GREEN FOR

SECTION IDENTIFIER: D/S		SECTION LOCATION:		SECTION LENGTH (m): 80m		SCALE (cm / m):	
						PROJECT #: 20501-1	
						MAPPER: DD	
						NAME OF WATERBODY:	
						CROSSING #: CV-00456	
						STATION #: 4+625	
						DATE: DD-MMM-YY 04-06-20	
						LEGEND 10d depth (cm) 6w width → Riffle ⇨ Run/Glide ○ Pool ■ Island/Bar ■ Fine Substrate ### Gravel Substrate oOoO Cobble /Boulder *** Debris CT Cattail SV/FV Submerg/Float Veg EV Emergent Vegetation W Watercress Fe Iron Staining ///// Eroded Bank XXX Riprap / Other Stabilization ○ Instream Log/Tree ^^^ Dam/Weir/Obstruction ® Riparian Tree ↳ Seep/Spring ----- Undercut Bank — Barrier to Fish Movement -S- Seasonal Barrier -x-x- Fence line L Culvert	
PROFILE:		Horz. Scale		Vert. Scale			

SECTION IDENTIFIER: <i>4201</i>		SECTION LOCATION: <i>Upstream</i>		SECTION LENGTH (m):	SCALE (cm / m):
					PROJECT #:
					MAPPER: <i>SLW</i>
					NAME OF WATERBODY:
					CROSSING #:
					STATION #: <i>41 655</i>
DATE: DD-MMM-YY <i>04/06/20</i>					LEGEND 10d depth (cm) 6w width ⇒ Riffle ⇨ Run/Glide ○ Pool ■ Island/Bar ■ Fine Substrate ### Gravel Substrate oOooO Cobble /Boulder *** Debris CT Cattail SV/FV Submerg/Float Veg EV Emergent Vegetation W Watercress Fe Iron Staining ///// Eroded Bank XXX Riprap / Other Stabilization ○ Instream Log/Tree ^^^ Dam/Weir/Obstruction ® Riparian Tree ▶ Seep/Spring ----- Undercut Bank — Barrier to Fish Movement -S- Seasonal Barrier -x-x- Fence line □ Culvert
PROFILE:		Horz. Scale	Vert. Scale		

GENERAL INFORMATION									
PROJECT #: 20501-1		PROJECT DESCRIPTION: FERGUSON CR. RD.		DAY: 04	MONTH: 06	YEAR: 2020			
Is STREAM REALIGNMENT required for this section: <input type="radio"/> Yes <input type="radio"/> No <input type="radio"/> Unknown									
COLLECTORS: Amador - DCD		WEATHER CONDITIONS: Sun/Cloud		TIME STARTED: 3:49		TIME FINISHED: 4:52			
AIR TEMP: 25°C		WATER TEMP:			CONDUCTIVITY (µS/cm):				
PHOTO NUMBERS AND DESCRIPTIONS:									
LOCATION									
NAME OF WATERBODY:		DRAINAGE SYSTEM:		CROSSING #: CV-00454		STATION #: 3+590			
LOCATION OF CROSSING: FERGUSON CR. RD. - Sta. 3+590									
GPS COORDINATES: 18T 355313, 5017549				MTO CHAINAGE:					
TOWNSHIP: GREATER MADAWASKA				MNR DISTRICT: Pembroke					
LAND USE AND POLLUTION									
SURROUNDING LAND USE: VACANT FOREST / RECREATION				SOURCES OF POLLUTION: Road Runoff					
EXISTING STRUCTURE TYPE									
Bridge <input type="radio"/>		Box Culvert <input type="radio"/>		Open Foot Culvert <input type="radio"/>		CSP <input checked="" type="radio"/>		N/A <input type="radio"/>	
Other <input type="radio"/> Describe:						Size (w x h) m ² 590mm			
SECTION TYPE AND MORPHOLOGY									
SECTION IDENTIFIER:				SECTION LOCATION: (Include on habitat map)					
TYPE:	Stream / river <input type="radio"/>	Channelized <input type="radio"/>	Permanent <input checked="" type="radio"/>	Intermittent <input type="radio"/>	Ephemeral <input type="radio"/>	ASSOCIATED WETLAND:			
TOTAL SECTION LENGTH (m):				CURRENT VELOCITY (m/s):					
SUB-SECTION(S)	Run <input type="radio"/>	Pool <input type="radio"/>	Riffle <input type="radio"/>	Flats <input type="radio"/>	Inside culvert <input type="radio"/>		Other		
Percentage of area	13	5	NA	15	NA	5	87	75	
Mean depth wetted (m)	0.08		0.28		0.5	0.3	0.12	0.15	
Mean width wetted (m)	1.17		0.55		0.09	20	0.85		
Mean bankfull width (m)	3								
Mean bankfull depth (m)	0.7								
Substrate	GR SA		S D		S	Mu D	Mu D		
Bedrock Br	Boulder Bo	Cobble Co	Gravel Gr	Sand Sa	Silt Si	Clay Cl	Muck Mu	Detritus D	

BANK STABILITY							
	Stable	Slightly Unstable	Moderately Unstable	Unstable			
Left Upstream Bank	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
Right Upstream Bank	<input checked="" type="radio"/>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>			
HABITAT							
IN-STREAM COVER (% surface area):	Undercut banks	Boulders	Cobble	Woody Debris	Organic debris	Vascular Macrophytes	None
	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	Instream 30 Overhanging 10	15	Instream 15 Overhanging 30	0
SHORE COVER (% stream shaded):	100 - 90 % 100	90 - 60 % 0	60 - 30 % 0	30 - 1 % 100	None 0		
VEGETATION TYPE (%)	Submergent 0		Floating 25		Emergent 40		None 35
Predominant Species			Duckweed		BL Cattail		
MIGRATORY OBSTRUCTIONS:	None		Seasonal Low Water		Permanent		
POTENTIAL CRITICAL HABITAT LIMITING:	Spawning		Evidence of Groundwater		Other		
POTENTIAL ENHANCEMENT OPPORTUNITIES:							
COMMENTS:							
<p>SEASONALITY OF W/C UNKNOWN CURRENT DEPTHS PREVIOUS DEPTH FISH HABIT W/S AND D/S OF CULVERT MUCH OF W/S HABITAT IS WITHIN W. CEDAR SWAMP. MEANDERING CATTAIL D/S THROUGH W. CEDAR</p>							
Additional Notes Appended? <input type="radio"/> No <input type="radio"/> Yes number of pages _____							

Ferguson Lake

SECTION IDENTIFIER: W/S	SECTION LOCATION:	SECTION LENGTH (m): 70m	SCALE (cm / m):
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	PROJECT #: 20501-1
	MAPPER: DCD
	NAME OF WATERBODY:
	CROSSING #: CV-00454
	STATION #: 3+590
	DATE: DD-MMM-YY 04-06-20

PROFILE:	LEGEND
Horz. Scale 0.07	10d depth (cm) 6w width ➡ Riffle ⇨ Run/Glide ○ Pool ■ Island/Bar ▨ Fine Substrate ### Gravel Substrate oOooO Cobble / Boulder *** Debris CT Cattail SV/FV Submerg/Float Veg EV Emergent Vegetation W Watercress Fe Iron Staining ///// Eroded Bank XXX Riprap / Other Stabilization ○ Instream Log/Tree ^^^ Dam/Weir/Obstruction ® Riparian Tree > Seep/Spring ----- Undercut Bank — Barrier to Fish Movement -S- Seasonal Barrier -x-x- Fence line □ Culvert
Vert. Scale 0.12	



Ainley Graham & Associates Limited
139 Front Street, Unit 100, Belleville, ON, K8N 2Y6
Tel: (613) 966-4243 • Fax: (613) 966-1168
Email: belleville@ainleygroup.com

October 5, 2020

File No. 20501-1

Ministry of Environment, Conservation, and Parks
50 Bloomington Rd.
Aurora, ON
L4G 0L8

Attn: **Paul Heeney**
Manager, Permission and Compliance, Species at Risk Branch

Ref: **Butternut Health Assessment Report 469-017**
Ferguson Lake Road Reconstruction, Township of Greater Madawaska, Renfrew County

Dear Mr. Heeney,

Ainley Group was retained by the Township of Greater Madawaska (via Greenview Environmental Ltd.) to complete a Butternut Health Assessment (BHA) for identified Butternut trees located within the study limits for the proposed Ferguson Lake Road reconstruction (specific coordinates in the attached BHA report). The BHA was deemed necessary as the Township is proposing reconstruction within the study limits which has the potential to impact the identified trees. Ainley Group is submitting this BHA report at the direction of and on behalf of the Township of Greater Madawaska.

Please find the attached BHA report and associated documents for the trees located on the above noted subject property.

Yours very truly,

AINLEY GRAHAM & ASSOCIATES LIMITED

Scott Reynolds, B.Sc.(Env.), EP, BHA #469
Senior Environmental Planner

Scott Reynolds, B.Sc. (Env), EP, BHA#469
139 Front Street, Unit 100
Belleville, Ontario
K8N 2Y6
(613) 966-4243 x 105
Reynolds@ainleygroup.com

Township of Greater Madawaska
19 Parnell Street
Calabogie, ON
K0J 1H0

October 5, 2020

Re: Ferguson Lake Road, Township of Greater Madawaska, Renfrew County
Butternut Health Assessment

Dear Ms. Holtzhauer:

Please find attached a Butternut Health Assessment report pertaining to the above noted site and the observed Butternut(s) during field investigations.

Please refer to the attached as it contains information pertaining to the Endangered Species Act, 2007 (ESA).

Regards,



Scott Reynolds, B.Sc(Env), EP
Environmental Planner

Enclosures:

1. Information from the Ministry of Natural Resources and Forestry about Butternut and the *Endangered Species Act, 2007*
2. Butternut Health Assessor's Report
3. Original data forms
4. Electronic and printed copies of the Excel data spreadsheet (BHA Tree Analysis)

Ministry of Natural
Resources and Forestry

Species At Risk
P.O. Box 7000, 300 Water Street
Peterborough ON K9J 8M5

Ministère des Richesses
naturelles et des Forêts

Espèces en péril
C.P. 7000, 300, rue Water
Peterborough ON K9J 8M5



The enclosed Butternut Health Assessor's Report documents the results of the Butternut health assessment that was conducted by the designated Butternut Health Assessor (BHA) identified in the top section of the report. If there are other Butternut trees (of any size or age) at the site that may be affected by the activity and they are not identified in the enclosed BHA Report, they too must be assessed by a designated BHA.

Butternut is listed as an endangered species on the Species at Risk in Ontario List, and as such, it is protected under the *Endangered Species Act, 2007* (ESA) from being killed, harmed, or removed. If you are planning to undertake an activity that may affect Butternut, you may be eligible to follow the requirements set out in section 23.7 of Ontario Regulation 242/08 under the ESA, or you may need to seek an authorization under the ESA (e.g., a permit).

Please visit e-laws at the link provided below for the legal requirements of eligible activities under section 23.7 of Ontario Regulation 242/08 and conditions that must be fulfilled. Information about Butternut is also available at: <http://www.ontario.ca/environment-and-energy/butternut-trees-your-property>.

If you are eligible to kill, harm or take Butternut under section 23.7 of the regulation, your first step is to submit the BHA Report and the original data forms enclosed in this package to the local Ministry of Natural Resources and Forestry (MNRF) District Manager. Note that MNRF cannot accept photocopies or scanned electronic copies of the data forms.

Note regarding changes:

If the enclosed BHA Report does not identify which Butternut tree(s) are proposed to be killed, harmed, or taken in Table 1 (i.e., if "unknown" is indicated in the second last column of Table 1), or, if the information in the last two columns of Table 1 has changed since the date this BHA Report was produced, **do not make any edits to the BHA Report**. Instead, please attach a cover letter that identifies which Butternut tree(s) are proposed to be killed, harmed, or taken (by referencing the tree identification numbers) when you submit the enclosed BHA Report to the local MNRF District Manager.

The BHA Report must be submitted at least 30 days prior to registering an eligible activity to kill, harm, or remove a Butternut tree. During this 30 day period, no Butternut trees (of any category) may be killed, harmed, or removed, and MNRF may contact you for an opportunity to examine the trees. If MNRF chooses to examine the trees, a representative of MNRF will contact you using the information you supplied when you submitted the BHA Report.

If you are eligible to follow the rules in regulation under section 23.7, you may register your activity using the "Notice of Butternut Impact" form on the [MNRF Registry](#) **after the 30 day period has elapsed**.

If you are **not** eligible to follow the rules in regulation under section 23.7, please contact the local MNRF district office to determine whether you will need to seek an authorization (e.g., a permit). A link to the directory of MNRF offices is provided below.

Note that municipal by-laws and legislation other than the ESA may also be applicable to the removal or harming of trees.

Please retain this information and a copy of the BHA Report (including copies of all data forms) for your records, along with any other documentation you may receive from MNRF should an examination of the trees occur. If you have any questions, please contact your local MNRF district office.

Links:

Endangered Species Act, 2007:

http://www.e-laws.gov.on.ca/html/statutes/english/elaws_statutes_07e06_e.htm

Ontario Regulation 242/08 (refer to section 23.7):

http://www.e-laws.gov.on.ca/html/regs/english/elaws_regs_080242_e.htm

MNRF Office Locations:

<https://www.ontario.ca/government/ministry-natural-resources-and-forestry-regional-and-district-offices>

Butternut Health Assessor's Report Number: 469-017

Scott Reynolds, B.Sc. (Env), EP, BHA#469
139 Front Street, Unit 100
Belleville, Ontario
K8N 2Y6
(613) 966-4243 x 105
Reynolds@ainleygroup.com

Township of Greater Madawaska
19 Parnell Street
Calabogie, ON
K0J 1H0

Site location: Ferguson Lake Road, Township of Greater Madawaska, Renfrew County

Date(s) of Butternut health assessment: July 8, 2020
Date BHA Report prepared: September 23, 2020

Map datum used: ☒ NAD83 ☐ WGS84

Total number of trees assessed in this BHA Report: 37

The assessed trees were numbered on site using Flagging Tape.

The numbers at the site correspond to the tree numbers referenced in this report.

This BHA Report includes the following tables:

- Table 1: Butternut Trees Assessed
- Table 2: Trees Determined by BHA to be Butternut Hybrids
- Table 3: Summary of Assessment Results

Table 1: Butternut Trees Assessed

Tree #	UTM coordinates	Category ¹ (1, 2, or 3 ²)	dbh ³ (cm)	Cultivated? (Y/N)	Proposed to be: (enter one: unknown ⁴ , killed, harmed or taken)	If tree is proposed to be killed, harmed, or taken, indicate reason tree is proposed to be killed, harmed or taken:
1-1		1	30	n	Unknown	Unknown at the time of assessment

¹ The extent to which the tree is affected by Butternut Canker is presented in the Excel document titled, "BHA Tree Analysis" that accompanies this BHA Report.

² Category 3 trees are not eligible to be killed, harmed or taken under section 23.7 of Ontario Regulation 242/08.

³ dbh: diameter at breast height, rounded to nearest cm

⁴ In this column, "unknown" indicates that at the time of assessment, there are no proposals to kill, harm or take this tree that are known to the BHA.

Tree #	UTM coordinates	Category ¹ (1, 2, or 3)	dbh ³ (cm)	Cultivated? (Y/N)	Proposed to be: (enter one: unknown ² , killed, harmed or taken)	If tree is proposed to be killed, harmed, or taken, indicate reason tree is proposed to be killed, harmed or taken:
1-2		1	33	N	Unknown	Unknown at the time of assessment
1-3		1	27	N	Unknown	Unknown at the time of assessment
1-4		1	25	N	Unknown	Unknown at the time of assessment
1-5		1	37	N	Unknown	Unknown at the time of assessment
1-6		1	28	N	Unknown	Unknown at the time of assessment
1-7		1	35	N	Unknown	Unknown at the time of assessment
1-8		1	25	N	Unknown	Unknown at the time of assessment
1-9		1	36	N	Unknown	Unknown at the time of assessment
1-10		1	51	N	Unknown	Unknown at the time of assessment
1-11		1	82	N	Unknown	Unknown at the time of assessment
1-12		1	43	N	Unknown	Unknown at the time of assessment
1-13		1	40	N	Unknown	Unknown at the time of assessment
1-14		3	35	N	Unknown	Unknown at the time of assessment
1-15		1	22	N	Unknown	Unknown at the time of assessment
2-1		2	2	N	Unknown	Unknown at the time of assessment
6-1		1	36	N	Unknown	Unknown at the time of assessment
6-2		1	26	N	Unknown	Unknown at the time of assessment
6-3		1	25	N	Unknown	Unknown at the time of assessment
6-4		1	26	N	Unknown	Unknown at the time of assessment
6-5		1	26	N	Unknown	Unknown at the time of assessment
6-6		1	33	N	Unknown	Unknown at the time of assessment
6-7		3	26	N	Unknown	Unknown at the time of assessment

Tree #	UTM coordinates	Category ¹ (1, 2, or 3 ²)	dbh ³ (cm)	Cultivated? (Y/N)	Proposed to be: (enter one: unknown ⁴ , killed, harmed or taken)	If tree is proposed to be killed, harmed, or taken, indicate reason tree is proposed to be killed, harmed or taken:
6-8		1	28	N	Unknown	Unknown at the time of assessment
6-9		1	13	N	Unknown	Unknown at the time of assessment
6-10		3	28	N	Unknown	Unknown at the time of assessment
6-11		1	24	N	Unknown	Unknown at the time of assessment
6-12		1	25	N	Unknown	Unknown at the time of assessment
6-13		1	13	N	Unknown	Unknown at the time of assessment
7-1		1	33	N	Unknown	Unknown at the time of assessment
8-1		2	60	N	Unknown	Unknown at the time of assessment
9-1		2	41	N	Unknown	Unknown at the time of assessment
14-1		1	35	N	Unknown	Unknown at the time of assessment
14-2		1	24	N	Unknown	Unknown at the time of assessment
14-3		1	30	N	Unknown	Unknown at the time of assessment
14-4		1	12	N	Unknown	Unknown at the time of assessment
14-5		1	1	N	Unknown	Unknown at the time of assessment

Table 2: Trees Determined by BHA to be Butternut Hybrids

Tree #	UTM coordinates	Method used (genetic testing or field identification):

Table 3: Summary of Assessment Results

Result:	Total #:	Important information for persons planning activities that may affect Butternut:

Result:	Total #:	Important information for persons planning activities that may affect Butternut:
Category 1	32	<ul style="list-style-type: none"> A Category 1 tree is one that is affected by butternut canker to such an advanced degree that retaining the tree would not support the protection or recovery of butternut in the area in which the tree is located; and is considered "non-retainable". During the 30 day period that follows your submission of this BHA Report to the MNRF District Manager, no Butternut trees (of Category 1, 2, or 3) may be killed, harmed, or taken, and MNRF may contact you for an opportunity to examine the trees. Category 1 trees may be killed, harmed or taken after the 30 day period that follows submission of this BHA Report to the MNRF District Manager, unless the results of an MNRF examination indicate that the assessment has not been conducted in accordance with the document entitled "Butternut Assessment Guidelines: Assessment of Butternut Tree Health for the Purposes of the <i>Endangered Species Act, 2007</i>".
Category 2	2	<ul style="list-style-type: none"> A Category 2 tree is one that is not affected by Butternut Canker, or is affected by Butternut Canker but the degree to which it is affected is not too advanced and retaining the tree could support the protection or recovery of butternut in the area in which the tree is located, and is considered "retainable". During the 30 day period that follows your submission of this BHA Report to the MNRF District Manager, no Butternut trees (of Category 1, 2, or 3) may be killed, harmed, or taken, and MNRF may contact you for an opportunity to examine the trees. Activities that may kill, harm or take up to a maximum of ten (10) Category 2 trees may be eligible to follow the rules in section 23.7 of Ontario Regulation 242/08, in accordance with the conditions and requirements set out in the regulation. Refer to e-Laws for the legal requirements of eligible activities under section 23.7 of Ontario Regulation 242/08 and conditions that must be fulfilled: http://www.e-laws.gov.on.ca/html/reg/english/elaws_regs_080242_e.htm Activities that may kill, harm or take more than ten (10) Category 2 trees are not eligible to follow the rules in section 23.7 of Ontario Regulation 242/08. Contact the local MNRF district office for information on how to seek an ESA authorization (e.g., a permit) or consider an alternative that would be eligible for the regulation.
Category 3	3	<ul style="list-style-type: none"> A Category 3 tree is one that may be useful in determining sources of resistance to Butternut Canker, and is considered "archivable". Category 3 trees are not eligible to be killed, harmed or taken under section 23.7 of Ontario Regulation 242/08. Contact the local MNRF district office for information on how to seek an ESA authorization, or consider an alternative that will avoid killing, harming or taking any Category 3 trees.
Cultivated	0	<ul style="list-style-type: none"> An activity that involves killing, harming, or taking a cultivated Butternut tree that was not required to be planted to fulfill a condition of an ESA permit or a condition of a regulation, may be eligible for the exemption provided by subsection 23.7 (11) of O. Reg. 242/08. Prior to undertaking the activity, the owner or occupier of the land on which the Butternut is located (or person acting on their behalf) will need to determine whether the exemption for cultivated trees is applicable by determining whether or not the tree was cultivated as a result of the requirements for an exemption under O. Reg. 242/08 or a condition of a permit issued under the ESA. This information can be accessed by contacting the local MNRF district office. The owner or occupier of the land on which the Butternut is located (or person acting on their behalf) is encouraged to append the details regarding whether the tree was planted to satisfy a requirement (e.g., the permit number or registration number) to this BHA Report for their records.
Hybrid	0	<ul style="list-style-type: none"> Hybrid Butternut trees are not protected under the ESA, but their removal may be subject to municipal by-laws and other legislation.

Butternut Health Assessor's Comments:

Permission to access property for Butternut Health Assessments provided by Greenview Environmental Management Ltd.

BHA Tree Analysis (version: December 2013)

This table is to be completed by a designated Butternut Health Assessor (BHA).

BHA Report #	17	Assessment Date(s)	06-Aug-20		Total # Butternut Trees in BHA Report	37																		
BHA ID #	469	BHA Name	Scott Reynolds																					
Landowner / Client Name		Township of Greater Madawaska																						
Property Location		Ferguson Lake Road, Township of Greater Madawaska																						
input field data										automatic calculations from field data										Categories: 1: non-retainable, 2: retainable, 3: archivable				
Tree #	Live Crown %	Tree dbh (cm)	# bole cankers				# root flare (RF) cankers		<40 m from cankered tree? (Y or N)	Circ. (cm) = Pi x dbh	total bole canker width (sooty x 2.5 + open x 5)	total RF canker width (sooty x 2.5 + open x 5)	bole canker % of circ.	RF canker % of circ.	total bole & root canker % of 2xCirc	LC% >= 50 & BC% = 0	LC% >70 & BRC % <20	LC% >70 & BC % <20	Preliminary tree call	FINAL TREE CALL a Cat 2, dbh>20cm <40m from a Cat 1				
			sooty (S) (will be assigned 2.5 cm per canker)		open (O) (will be assigned 5 cm per canker)		RF S	RF O																
			S <2 m	S >2 m	O <2 m	O >2 m																		
1-1	0	30								94.2	0.0	0.0	0.0	0.0	0.0	1	1	1	1	1				
1-2	70	33	8	2	0	0	3	2	y	103.6	25.0	17.5	24.1	16.9	20.5	1	1	1	1	1				
1-3	0	27								84.78	0.0	0.0	0.0	0.0	0.0	1	1	1	1	1				
1-4	60	25	4	1	5	1	0	1	y	78.5	42.5	5.0	54.1	6.4	30.3	1	1	1	1	1				
1-5	75	37	5	1	4	2	2	2	y	116.2	45.0	15.0	38.7	12.9	25.8	1	1	1	1	1				
1-6	50	28	4	2	8	1	1	4	y	87.92	60.0	22.5	68.2	25.6	46.9	1	1	1	1	1				
1-7	0	35								109.9	0.0	0.0	0.0	0.0	0.0	1	1	1	1	1				
1-8	0	25								78.5	0.0	0.0	0.0	0.0	0.0	1	1	1	1	1				
1-9	0	36								113	0.0	0.0	0.0	0.0	0.0	1	1	1	1	1				
1-10	0	51								160.1	0.0	0.0	0.0	0.0	0.0	1	1	1	1	1				
1-11	65	82	7	2	12	0	2	5	y	257.5	82.5	30.0	32.0	11.7	21.8	1	1	1	1	1				
1-12	65	43	2	0	4	1	4	4	y	135	30.0	30.0	22.2	22.2	22.2	1	1	1	1	1				
1-13	80	40	11	2	10	1	1	3	y	125.6	87.5	17.5	69.7	13.9	41.8	1	1	1	1	1				
1-14	85	35	5	3	3	1	0	0	y	109.9	40.0	0.0	36.4	0.0	18.2	1	2	1	2	3				
1-15	80	22	6	1	5	0	0	2	y	69.08	42.5	10.0	61.5	14.5	38.0	1	1	1	1	1				
2-1	100	2	1	0	0	0	0	0	n	6.28	2.5	0.0	39.8	0.0	19.9	1	2	1	2	2				
6-1	90	36	13	9	3	0	2	3	y	113	70.0	20.0	61.9	17.7	39.8	1	1	1	1	1				
6-2	0	26								81.64	0.0	0.0	0.0	0.0	0.0	1	1	1	1	1				
6-3	0	25								78.5	0.0	0.0	0.0	0.0	0.0	1	1	1	1	1				
6-4	15	26	5	3	8	2	1	2	y	81.64	70.0	12.5	85.7	15.3	50.5	1	1	1	1	1				
6-5	0	26								81.64	0.0	0.0	0.0	0.0	0.0	1	1	1	1	1				
6-6	30	33	5	1	4	0	2	3	y	103.6	35.0	20.0	33.8	19.3	26.5	1	1	1	1	1				
6-7	80	26	2	1	1	0	3	1	y	81.64	12.5	12.5	15.3	15.3	15.3	1	2	2	2	3				
6-8	75	28	0	1	7	2	1	2	y	87.92	47.5	12.5	54.0	14.2	34.1	1	1	1	1	1				
6-9	10	13	1	1	3	1	0	3	y	40.82	25.0	15.0	61.2	36.7	49.0	1	1	1	1	1				
6-10	90	28	4	2	1	0	1	1	y	87.92	20.0	7.5	22.7	8.5	15.6	1	2	1	2	3				
6-11	0	24								75.36	0.0	0.0	0.0	0.0	0.0	1	1	1	1	1				
6-12	70	25	7	2	3	1	3	3	y	78.5	42.5	22.5	54.1	28.7	41.4	1	1	1	1	1				
6-13	0	13								40.82	0.0	0.0	0.0	0.0	0.0	1	1	1	1	1				
7-1	40	33	3	0	1	0	0	4	y	103.6	12.5	20.0	12.1	19.3	15.7	1	1	1	1	1				
8-1	80	60	8	0	1	0	2	0	n	188.4	25.0	5.0	13.3	2.7	8.0	1	2	2	2	2				
9-1	90	41	0	0	0	1	0	1	n	128.7	5.0	5.0	3.9	3.9	3.9	1	2	2	2	2				
14-1	70	35	8	2	2	0	2	2	y	109.9	35.0	15.0	31.8	13.6	22.7	1	1	1	1	1				
14-2	0	24								75.36	0.0	0.0	0.0	0.0	0.0	1	1	1	1	1				
14-3	80	30	8	3	3	0	0	1	y	94.2	42.5	5.0	45.1	5.3	25.2	1	1	1	1	1				
14-4	40	12	0	0	0	0	1	0	y	37.68	0.0	2.5	0.0	6.6	3.3	1	1	1	1	1				
14-5	65	1	3	0	0	0	0	0	y	3.14	7.5	0.0	238.9	0.0	119.4	1	1	1	1	1				



Butternut Data Collection Form 1 - 2010 Edition

Surveyor ID
or BHA # 0469

(PLEASE USE BLOCK LETTERS)

Date (dd/mm/yyyy)

08-07-2020

Shaded fields are mandatory for Butternut Health Assessments

Surveyor
Contact

First SCOTT Last REYNOLDS

Email REYNOLDS@AINLEYGROUP.COM

Telephone (613) 243-0567 Telephone Other (613) 966-4243 x105

Property
Owner

First Last

(check if same
as surveyor)

or Company TWP OF GREATER MADAWASKA

Email AHOLTZHAUER@GREATERMADAWASKA.COM

Telephone (613) 752-2222 Telephone Other

Property Owner's Mailing address

Address 19 PARNELL ST Postal Code K0J1H0 Prov. ON

City CALABOGIE

Tree Location (if different from mailing address)

Address/(911#) FERGUSON LAKE ROAD

Township GREATER MADAWASKA Lot Con

City

Directions

COUNTY RD 508 WEST FROM HIGHWAY 17. APPROX. 2.5 km
WEST OF CALABOGIE TURN NORTH ONTO FERGUSON LAKE RD

☐ Yes ☐ No
☐ Yes ☐ No

Can Share Location Information with other Butternut Recovery Organizations?
Site visits OK? (prior arrangements will always be made for a site visit)

> (Greater than)
< (Less than)

Butternut Trees Tally by Diameter Class

(Do a dot tally in blank space; write total# in box for each)

Tree Condition	< 3 cm	3-15 cm	16-30cm	>30 cm
Vigorous: > 50% Live Crown Minor or no cankers	1		2	3
Poor Vigor: <50% Live Crown or >50% Live Crown + heavily cankered stem	1	2	7	9
Dead		1	8	3

Historically, do some trees produce seeds? ☐ Y ☐ N ☒ Unknown

Estimated area containing butternut
for properties > 1 acre (0.4 hectares): ☐ Acres ☐ Hectares

WITHIN STUDY LIMITS FOR POTENTIAL
ROAD RECONSTRUCTION PROJECT.

Overall Property Description (area(s) containing Butternut)

☐ Rolling Upland ☐ Bottomland
☐ Valley Slope ☒ Variable
☐ Tableland ☐ Unknown

Vegetation Communities

☐ Open ☐ Fencerow
☐ Shrubland ☐ Roadside
☒ Deciduous Forest ☐ Quarry
☐ Conifer Forest ☐ Urban Yard
☒ Mixed Forest ☐ Urban Park

Other

Soil Drainage

☐ Well Drained
☐ Moderately Drained
☐ Poorly Drained
☒ Unknown

Soil Texture

☐ Clay ☐ Sand
☐ Clay Loam ☐ Variable
☐ Loam ☒ Unknown
☐ Loamy Sand

Soil Depth

☐ > 1metre
☐ 30 - 99cm
☐ < 30cm
☐ Variable
☒ Unknown

Please enter matching numerical page link code on forms 1 and 2

Page Link

355501

(Contact information follows all applicable
privacy policies and guidelines)

Please return forms to:
Forest Gene Conservation Association
Suite 233, 266 Charlotte St.
Peterborough, ON, K9J 2V4
www.fgca.net

49731



Butternut Data Collection FORM 2 (2010 Edition)

(PLEASE USE
BLOCK LETTERS)

Fill when Form 1 indicates canker is well
established. The information on Form 2
must be filled out for all trees when doing a
Butternut Health Assessment.

Shaded fields are mandatory for Butternut Health Assessments

Site Code(A,B,...Z, AA,...)

Surveyor ID
or BHA # 0469

Date (dd/mm/yyyy)

08-07-2020

Surveyor Last Name REYNOLDS

Tree ID Numbering: 1,2,3,...Starting from 1 for each site

Tree # Zone Easting Northing

1-1

Crown
Class

0

Live
Crown %

0

Main Stem Length(m)
Below crown

0

Assess below live crown

#Epic-Live

#Epic-Dead

#Open

#Sooty

Metres from badly cankered tree
☐ < 40 ☐ > 40 ☐ None
Found

Competing Species

Twig Dieback

Branch Dieback

Defoliation

Discolouration

#Stems

1

30

DBH(cm)

Butternut

Origin

Natural

Planted

Unknown

Male Flowers

Female Flowers

Seed Set

None

Bark Type

Callused

Wounds

=<2m

>2m

TREE DEAD

Tree # Zone Easting Northing

1-2

Crown
Class

0

Live
Crown %

0

Main Stem Length(m)
Below crown

0

Assess below live crown

#Epic-Live

#Epic-Dead

#Open

#Sooty

Metres from badly cankered tree
☒ < 40 ☐ > 40 ☐ None
Found

Competing Species

Twig Dieback

Branch Dieback

Defoliation

Discolouration

#Stems

1

33

DBH(cm)

Butternut

Origin

Natural

Planted

Unknown

Male Flowers

Female Flowers

Seed Set

None

Bark Type

Callused

Wounds

=<2m

>2m

OSTRIR

POPUTRE

QUERUB

Tree # Zone Easting Northing

1-3

Crown
Class

0

Live
Crown %

0

Main Stem Length(m)
Below crown

0

Assess below live crown

#Epic-Live

#Epic-Dead

#Open

#Sooty

Metres from badly cankered tree
☐ < 40 ☐ > 40 ☐ None
Found

Competing Species

Twig Dieback

Branch Dieback

Defoliation

Discolouration

#Stems

1

27

DBH(cm)

Butternut

Origin

Natural

Planted

Unknown

Male Flowers

Female Flowers

Seed Set

None

Bark Type

Callused

Wounds

=<2m

>2m

TREE DEAD

Tree # Zone Easting Northing

1-4

Crown
Class

0

Live
Crown %

0

Main Stem Length(m)
Below crown

0

Assess below live crown

#Epic-Live

#Epic-Dead

#Open

#Sooty

Metres from badly cankered tree
☒ < 40 ☐ > 40 ☐ None
Found

Competing Species

Twig Dieback

Branch Dieback

Defoliation

Discolouration

#Stems

1

25

DBH(cm)

Butternut

Origin

Natural

Planted

Unknown

Male Flowers

Female Flowers

Seed Set

None

Bark Type

Callused

Wounds

=<2m

>2m

10

54

11

Tree # Zone Easting Northing

1-5

Crown
Class

0

Live
Crown %

0

Main Stem Length(m)
Below crown

0

Assess below live crown

#Epic-Live

#Epic-Dead

#Open

#Sooty

Metres from badly cankered tree
☒ < 40 ☐ > 40 ☐ None
Found

Competing Species

Twig Dieback

Branch Dieback

Defoliation

Discolouration

#Stems

1

37

DBH(cm)

Butternut

Origin

Natural

Planted

Unknown

Male Flowers

Female Flowers

Seed Set

None

Bark Type

Callused

Wounds

=<2m

>2m

22

45

21

Please enter matching page link code on forms 1 and 2

Page Link

355501

(Contact Information follows all applicable
privacy policies and guidelines)

Please return forms to:
Forest Gene Conservation Association
Suite 233, 266 Charlotte St.
Peterborough, ON, K9J 2V4
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Butternut Data Collection FORM 2 (2010 Edition)

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Butternut Health Assessment

Shaded fields are mandatory for Butternut Health Assessments

Site Code(A,B,...Z, AA...)

 Surveyor ID
or BHA #

0469

Date (dd/mm/yyyy)

08-07-2020

Surveyor Last Name

REYNOLDS

Tree ID Numbering: 1,2,3,...Starting from 1 for each site

Tree # Zone Easting Northing

1-6

Crown Class	50	Live Crown %	10	Main Stem Length(m)	
Below crown		Seed			
Twig Dieback		Butternut		Signs	
Branch Dieback	1	Origin		Male Flowers	
Defoliation		Natural		Female Flowers	
Discolouration	28	Planted		Seed Set	
		Unknown		None	

Assess below live crown

#Epic-Live	0	#Open	4	#Sooty	1
#Epic-Dead	5	Root			
Bark Type		=<2m	8	4	
# Callused Wounds	2	>2m	1	2	

 Metres from badly cankered tree
☒ < 40 ☐ > 40 ☐ None Found

Competing Species

Tree # Zone Easting Northing

1-7

Crown Class	0	Live Crown %		Main Stem Length(m)	
Below crown		Seed			
Twig Dieback		Butternut		Signs	
Branch Dieback		Origin		Male Flowers	
Defoliation		Natural		Female Flowers	
Discolouration	35	Planted		Seed Set	
		Unknown		None	

Assess below live crown

#Epic-Live		#Open		#Sooty	
#Epic-Dead		Root			
Bark Type		=<2m			
# Callused Wounds		>2m			

 Metres from badly cankered tree
☐ < 40 ☐ > 40 ☐ None Found

Competing Species

TREE DEAD

Tree # Zone Easting Northing

1-8

Crown Class	0	Live Crown %		Main Stem Length(m)	
Below crown		Seed			
Twig Dieback		Butternut		Signs	
Branch Dieback		Origin		Male Flowers	
Defoliation		Natural		Female Flowers	
Discolouration	25	Planted		Seed Set	
		Unknown		None	

Assess below live crown

#Epic-Live		#Open		#Sooty	
#Epic-Dead		Root			
Bark Type		=<2m			
# Callused Wounds		>2m			

 Metres from badly cankered tree
☐ < 40 ☐ > 40 ☐ None Found

Competing Species

TREE DEAD

Tree # Zone Easting Northing

1-9

Crown Class	0	Live Crown %		Main Stem Length(m)	
Below crown		Seed			
Twig Dieback		Butternut		Signs	
Branch Dieback		Origin		Male Flowers	
Defoliation		Natural		Female Flowers	
Discolouration	36	Planted		Seed Set	
		Unknown		None	

Assess below live crown

#Epic-Live		#Open		#Sooty	
#Epic-Dead		Root			
Bark Type		=<2m			
# Callused Wounds		>2m			

 Metres from badly cankered tree
☐ < 40 ☐ > 40 ☐ None Found

Competing Species

TREE DEAD

Tree # Zone Easting Northing

1-10

Crown Class	0	Live Crown %		Main Stem Length(m)	
Below crown		Seed			
Twig Dieback		Butternut		Signs	
Branch Dieback		Origin		Male Flowers	
Defoliation		Natural		Female Flowers	
Discolouration	51	Planted		Seed Set	
		Unknown		None	

Assess below live crown

#Epic-Live		#Open		#Sooty	
#Epic-Dead		Root			
Bark Type		=<2m			
# Callused Wounds		>2m			

 Metres from badly cankered tree
☐ < 40 ☐ > 40 ☐ None Found

Competing Species

TREE DEAD

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Date (dd/mm/yyyy)

08 - 07 - 2020Surveyor Last Name REYNOLDS

Tree ID Numbering: 1,2,3,...Starting from 1 for each site

Tree # Zone Easting Northing

1-11

1 Crown Class 65 Live Crown % 2 Main Stem Length(m)
Below crown Seed
☐ Twig Dieback 2 #Stems Butternut Origin ☐ Male Flowers
☐ Branch Dieback ☐ Defoliation ☐ Discolouration 82 DBH(cm) ☒ Natural ☐ Planted ☐ Unknown ☐ Female Flowers ☐ Seed Set ☐ None

Assess below live crown

2 #Epic-Live 0 #Epic-Dead 5 #Open 2 #Sooty
Root 1 2 7
Bark Type 1 # Callused Wounds 0 2

Metres from badly cankered tree

☒ < 40 ☐ > 40 ☐ None Found

Competing Species

U	L	M	A	M	E
Q	U	E	R	Z	U

Tree # Zone Easting Northing

1-12

2 Crown Class 65 Live Crown % 10 Main Stem Length(m)
Below crown Seed
☐ Twig Dieback 1 #Stems Butternut Origin ☐ Male Flowers
☐ Branch Dieback ☐ Defoliation ☐ Discolouration 43 DBH(cm) ☒ Natural ☐ Planted ☐ Unknown ☐ Female Flowers ☐ Seed Set ☐ None

Assess below live crown

2 #Epic-Live 0 #Epic-Dead 4 #Open 4 #Sooty
Root 4 2
Bark Type 2 # Callused Wounds 1 0

Metres from badly cankered tree

☒ < 40 ☐ > 40 ☐ None Found

Competing Species

T	H	A	S	O	C
B	E	T	U	P	A
F	R	A	K	A	M

Tree # Zone Easting Northing

1-13

1 Crown Class 80 Live Crown % 8 Main Stem Length(m)
Below crown Seed
☐ Twig Dieback 1 #Stems Butternut Origin ☐ Male Flowers
☐ Branch Dieback ☐ Defoliation ☐ Discolouration 40 DBH(cm) ☒ Natural ☐ Planted ☐ Unknown ☐ Female Flowers ☐ Seed Set ☐ None

Assess below live crown

5 #Epic-Live 1 #Epic-Dead 3 #Open 1 #Sooty
Root 10 1
Bark Type 1 # Callused Wounds 1 2

Metres from badly cankered tree

☒ < 40 ☐ > 40 ☐ None Found

Competing Species

Q	U	E	R	Z	U
P	O	P	U	T	R
B	E	T	U	P	A

Tree # Zone Easting Northing

1-14

1 Crown Class 85 Live Crown % 1 Main Stem Length(m)
Below crown Seed
☐ Twig Dieback 1 #Stems Butternut Origin ☐ Male Flowers
☐ Branch Dieback ☐ Defoliation ☐ Discolouration 35 DBH(cm) ☒ Natural ☐ Planted ☐ Unknown ☐ Female Flowers ☐ Seed Set ☐ None

Assess below live crown

10 #Epic-Live 0 #Epic-Dead 0 #Open 0 #Sooty
Root 3 5
Bark Type 1 # Callused Wounds 1 3

Metres from badly cankered tree

☒ < 40 ☐ > 40 ☐ None Found

Competing Species

P	O	P	U	T	R

Tree # Zone Easting Northing

1-15

2 Crown Class 80 Live Crown % 6 Main Stem Length(m)
Below crown Seed
☐ Twig Dieback 1 #Stems Butternut Origin ☐ Male Flowers
☐ Branch Dieback ☐ Defoliation ☐ Discolouration 22 DBH(cm) ☒ Natural ☐ Planted ☐ Unknown ☐ Female Flowers ☐ Seed Set ☐ None

Assess below live crown

4 #Epic-Live 3 #Epic-Dead 2 #Open 0 #Sooty
Root 5 6
Bark Type 0 # Callused Wounds 0 1

Metres from badly cankered tree

☒ < 40 ☐ > 40 ☐ None Found

Competing Species

U	L	M	A	M	E
A	C	E	R	S	A
P	I	N	U	S	T

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Surveyor ID
or BHA # **0469**

Date (dd/mm/yyyy)

08-07-2020

Surveyor Last Name **REYNOLDS**

Tree ID Numbering: 1,2,3,...Starting from 1 for each site

Tree # Zone Easting Northing

Tree # **2-1** Zone **1** Easting **100** Northing **1**

Crown Class **3** Live Crown % **100** Main Stem Length(m) **1** Below crown **1** Seed **1**

Butternut Origin ☒ Natural ☐ Planted ☐ Unknown

Signs ☐ Male Flowers ☐ Female Flowers ☐ Seed Set ☐ None

Twig Dieback ☐ Branch Dieback ☐ Defoliation ☐ Discolouration ☐

#Stems **1** DBH(cm) **2**

Assess below live crown

#Epic-Live **0** #Epic-Dead **0** #Open **0** #Sooty **0**

Bark Type **5** Root **0** **0**

Callused Wounds **0** **0**

=<2m **0** **1**

>2m **0** **0**

Metres from badly cankered tree
☒ < 40 ☐ > 40 ☐ None Found

Competing Species

Tree # Zone Easting Northing

Tree # **6-1** Zone **1** Easting **12** Northing **1**

Crown Class **1** Live Crown % **90** Main Stem Length(m) **12** Below crown **1** Seed **1**

Butternut Origin ☒ Natural ☐ Planted ☐ Unknown

Signs ☐ Male Flowers ☐ Female Flowers ☐ Seed Set ☐ None

Twig Dieback ☐ Branch Dieback ☐ Defoliation ☐ Discolouration ☐

#Stems **1** DBH(cm) **36**

Assess below live crown

#Epic-Live **0** #Epic-Dead **1** #Open **3** #Sooty **2**

Bark Type **D** Root **3** **1**

Callused Wounds **1** **3**

=<2m **3** **1**

>2m **0** **9**

Metres from badly cankered tree
☒ < 40 ☐ > 40 ☐ None Found

Competing Species

P	I	N	U	S	T	R	
F	A	G	U	G	R	A	
A	C	E	R	S	A	C	

Tree # Zone Easting Northing

Tree # **6-2** Zone **1** Easting **26** Northing **1**

Crown Class **0** Live Crown % **0** Main Stem Length(m) **26** Below crown **1** Seed **1**

Butternut Origin ☐ Natural ☐ Planted ☐ Unknown

Signs ☐ Male Flowers ☐ Female Flowers ☐ Seed Set ☐ None

Twig Dieback ☐ Branch Dieback ☐ Defoliation ☐ Discolouration ☐

#Stems **26** DBH(cm) **26**

Assess below live crown

#Epic-Live **0** #Epic-Dead **0** #Open **0** #Sooty **0**

Bark Type **0** Root **0** **0**

Callused Wounds **0** **0**

=<2m **0** **0**

>2m **0** **0**

Metres from badly cankered tree
☐ < 40 ☐ > 40 ☐ None Found

Competing Species

TREE DEAD

Tree # Zone Easting Northing

Tree # **6-3** Zone **1** Easting **25** Northing **1**

Crown Class **0** Live Crown % **0** Main Stem Length(m) **25** Below crown **1** Seed **1**

Butternut Origin ☐ Natural ☐ Planted ☐ Unknown

Signs ☐ Male Flowers ☐ Female Flowers ☐ Seed Set ☐ None

Twig Dieback ☐ Branch Dieback ☐ Defoliation ☐ Discolouration ☐

#Stems **25** DBH(cm) **25**

Assess below live crown

#Epic-Live **0** #Epic-Dead **0** #Open **0** #Sooty **0**

Bark Type **0** Root **0** **0**

Callused Wounds **0** **0**

=<2m **0** **0**

>2m **0** **0**

Metres from badly cankered tree
☐ < 40 ☐ > 40 ☐ None Found

Competing Species

TREE DEAD

Tree # Zone Easting Northing

Tree # **6-4** Zone **1** Easting **10** Northing **1**

Crown Class **2** Live Crown % **15** Main Stem Length(m) **10** Below crown **1** Seed **1**

Butternut Origin ☒ Natural ☐ Planted ☐ Unknown

Signs ☐ Male Flowers ☐ Female Flowers ☐ Seed Set ☐ None

Twig Dieback ☐ Branch Dieback ☐ Defoliation ☐ Discolouration ☐

#Stems **1** DBH(cm) **26**

Assess below live crown

#Epic-Live **0** #Epic-Dead **1** #Open **2** #Sooty **1**

Bark Type **5** Root **2** **1**

Callused Wounds **2** **5**

=<2m **8** **5**

>2m **2** **3**

Metres from badly cankered tree
☒ < 40 ☐ > 40 ☐ None Found

Competing Species

P	I	N	U	S	T	R	
O	S	T	R	V	I	R	
Q	U	E	R	E	U	B	

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0469

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08-07-2020

Surveyor Last Name

KENNOLDS

Tree ID Numbering: 1,2,3,...Starting from 1 for each site

Tree # Zone Easting Northing

6-5

Crown
Class

0

Live
Crown %

0

Main Stem Length(m)

Below crown

Seed

☐ Twig Dieback

#Stems

☐ Branch Dieback☐ Defoliation☐ Discolouration

26

DBH(cm)

Butternut

Origin

☐ Natural☐ Planted☐ Unknown☐ Male Flowers☐ Female Flowers☐ Seed Set☐ None

Assess below live crown

#Epic-Live

#Epic-Dead

Bark Type

Callused

Wounds

#Open

#Sooty

Root

=<2m

>2m

Metres from badly cankered tree

☐ < 40 ☐ > 40 ☐ None Found

Competing Species

TREE DEAD

Tree # Zone Easting Northing

6-6

Crown
Class

30

Live
Crown %

30

Main Stem Length(m)

Below crown

Seed

☐ Twig Dieback

#Stems

☐ Branch Dieback☐ Defoliation☐ Discolouration

33

DBH(cm)

Butternut

Origin

☒ Natural☐ Planted☐ Unknown☐ Male Flowers☐ Female Flowers☐ Seed Set☐ None

Assess below live crown

#Epic-Live

#Epic-Dead

Bark Type

Callused

Wounds

#Open

#Sooty

Root

=<2m

>2m

Metres from badly cankered tree

☒ < 40 ☐ > 40 ☐ None Found

Competing Species

T	I	L	I	A	E				
Q	U	E	R	R	A	B			

Tree # Zone Easting Northing

6-7

Crown
Class

80

Live
Crown %

80

Main Stem Length(m)

Below crown

Seed

☐ Twig Dieback

#Stems

☐ Branch Dieback☐ Defoliation☐ Discolouration

26

DBH(cm)

Butternut

Origin

☒ Natural☐ Planted☐ Unknown☐ Male Flowers☐ Female Flowers☐ Seed Set☐ None

Assess below live crown

#Epic-Live

#Epic-Dead

Bark Type

Callused

Wounds

#Open

#Sooty

Root

=<2m

>2m

Metres from badly cankered tree

☒ < 40 ☐ > 40 ☐ None Found

Competing Species

J	U	G	L	C	I	N			
F	R	A	X	A	M	E			

Tree # Zone Easting Northing

6-8

Crown
Class

75

Live
Crown %

75

Main Stem Length(m)

Below crown

Seed

☐ Twig Dieback

#Stems

☐ Branch Dieback☐ Defoliation☐ Discolouration

28

DBH(cm)

Butternut

Origin

☒ Natural☐ Planted☐ Unknown☐ Male Flowers☐ Female Flowers☐ Seed Set☐ None

Assess below live crown

#Epic-Live

#Epic-Dead

Bark Type

Callused

Wounds

#Open

#Sooty

Root

=<2m

>2m

Metres from badly cankered tree

☒ < 40 ☐ > 40 ☐ None Found

Competing Species

J	U	G	L	C	I	N			
F	R	A	X	A	M	E			

Tree # Zone Easting Northing

6-9

Crown
Class

10

Live
Crown %

10

Main Stem Length(m)

Below crown

Seed

☐ Twig Dieback

#Stems

☐ Branch Dieback☐ Defoliation☐ Discolouration

13

DBH(cm)

Butternut

Origin

☒ Natural☐ Planted☐ Unknown☐ Male Flowers☐ Female Flowers☐ Seed Set☐ None

Assess below live crown

#Epic-Live

#Epic-Dead

Bark Type

Callused

Wounds

#Open

#Sooty

Root

=<2m

>2m

Metres from badly cankered tree

☒ < 40 ☐ > 40 ☐ None Found

Competing Species

O	S	T	R	V	I	R			
F	R	A	X	A	M	E			

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REYNOLDS

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Tree # Zone Easting Northing

6+10

Crown
Class

90

Live
Crown %

9

Main Stem Length(m)

Below crown

Seed

☐ Twig Dieback

1

#Stems

Butternut

Signs

☐ Branch Dieback

Origin

Male Flowers

☐ Defoliation

28

DBH(cm)

Planted

Seed Set

☐ Discolouration

Unknown

None

Assess below live crown

#Epic-Live

#Epic-Dead

Bark Type

Callused

Wounds

#Open

#Sooty

Root

=<2m

>2m

Metres from badly cankered tree
☒ < 40 ☐ > 40 ☐ None
Found

Competing Species

JUGLANS
TILIAME
ACERSAC

Tree # Zone Easting Northing

6+11

Crown
Class

0

Live
Crown %

6

Main Stem Length(m)

Below crown

Seed

☐ Twig Dieback

#Stems

Butternut

Signs

☐ Branch Dieback

Origin

Male Flowers

☐ Defoliation

24

DBH(cm)

Planted

Seed Set

☐ Discolouration

Unknown

None

Assess below live crown

#Epic-Live

#Epic-Dead

Bark Type

Callused

Wounds

#Open

#Sooty

Root

=<2m

>2m

Metres from badly cankered tree
☐ < 40 ☐ > 40 ☐ None
Found

Competing Species

Tree # Zone Easting Northing

6+12

Crown
Class

70

Live
Crown %

6

Main Stem Length(m)

Below crown

Seed

☐ Twig Dieback

#Stems

Butternut

Signs

☐ Branch Dieback

Origin

Male Flowers

☐ Defoliation

25

DBH(cm)

Planted

Seed Set

☐ Discolouration

Unknown

None

Assess below live crown

#Epic-Live

#Epic-Dead

Bark Type

Callused

Wounds

#Open

#Sooty

Root

=<2m

>2m

Metres from badly cankered tree
☒ < 40 ☐ > 40 ☐ None
Found

Competing Species

TSUGA
CAN
TILIAME
ACERSAC

Tree # Zone Easting Northing

6+13

Crown
Class

0

Live
Crown %

6

Main Stem Length(m)

Below crown

Seed

☐ Twig Dieback

#Stems

Butternut

Signs

☐ Branch Dieback

Origin

Male Flowers

☐ Defoliation

13

DBH(cm)

Planted

Seed Set

☐ Discolouration

Unknown

None

Assess below live crown

#Epic-Live

#Epic-Dead

Bark Type

Callused

Wounds

#Open

#Sooty

Root

=<2m

>2m

Metres from badly cankered tree
☐ < 40 ☐ > 40 ☐ None
Found

Competing Species

Tree # Zone Easting Northing

6+14

Crown
Class

0

Live
Crown %

6

Main Stem Length(m)

Below crown

Seed

☐ Twig Dieback

#Stems

Butternut

Signs

☐ Branch Dieback

Origin

Male Flowers

☐ Defoliation

DBH(cm)

Planted

Seed Set

☐ Discolouration

Unknown

None

Assess below live crown

#Epic-Live

#Epic-Dead

Bark Type

Callused

Wounds

#Open

#Sooty

Root

=<2m

>2m

Metres from badly cankered tree
☐ < 40 ☐ > 40 ☐ None
Found

Competing Species

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Surveyor ID or BHA # 0469

Date (dd/mm/yyyy)

12 - 07 - 2020

Surveyor Last Name REYNOLDS

08

Tree ID Numbering: 1,2,3,...Starting from 1 for each site

Tree # 7-1 Zone 1 Easting 1 Northing 1

Crown Class 2 Live Crown % 40 Main Stem Length(m) 9 Below crown 9 Seed Signs 9

Butternut Origin ☒ Natural ☐ Planted ☐ Unknown

Male Flowers ☐ Female Flowers ☐ Seed Set ☐ None

Twig Dieback ☐ Branch Dieback ☐ Defoliation ☐ Discolouration ☐

#Stems 1 DBH(cm) 33

Assess below live crown

#Epic-Live 1 #Epic-Dead 1 #Open 4 #Sooty 0

Bark Type 5 Root 1 3

Callused Wounds 0 0

Metres from badly cankered tree
☒ < 40 ☐ > 40 ☐ None Found

Competing Species

BETWALL
TILIAME
ACER SAC

Tree # 8-1 Zone 1 Easting 1 Northing 1

Crown Class 1 Live Crown % 80 Main Stem Length(m) 1 Below crown 1 Seed Signs 1

Butternut Origin ☒ Natural ☐ Planted ☐ Unknown

Male Flowers ☐ Female Flowers ☐ Seed Set ☐ None

Twig Dieback ☐ Branch Dieback ☐ Defoliation ☐ Discolouration ☐

#Stems 1 DBH(cm) 60

Assess below live crown

#Epic-Live 1 #Epic-Dead 1 #Open 0 #Sooty 2

Bark Type D Root 1 8

Callused Wounds 0 0

Metres from badly cankered tree
☐ < 40 ☒ > 40 ☐ None Found

Competing Species

FRAX ME
ACER SAC
POPUL DEL

Tree # 9-1 Zone 1 Easting 1 Northing 1

Crown Class 2 Live Crown % 90 Main Stem Length(m) 1 Below crown 1 Seed Signs 1

Butternut Origin ☒ Natural ☐ Planted ☐ Unknown

Male Flowers ☐ Female Flowers ☐ Seed Set ☐ None

Twig Dieback ☐ Branch Dieback ☐ Defoliation ☐ Discolouration ☐

#Stems 1 DBH(cm) 41

Assess below live crown

#Epic-Live 1 #Epic-Dead 1 #Open 0 #Sooty 1

Bark Type D Root 0 0

Callused Wounds 1 1

Metres from badly cankered tree
☐ < 40 ☒ > 40 ☐ None Found

Competing Species

QUERZUB
PINUS TR

Tree # 14-1 Zone 1 Easting 1 Northing 1

Crown Class 2 Live Crown % 70 Main Stem Length(m) 1 Below crown 1 Seed Signs 1

Butternut Origin ☒ Natural ☐ Planted ☐ Unknown

Male Flowers ☐ Female Flowers ☐ Seed Set ☐ None

Twig Dieback ☐ Branch Dieback ☐ Defoliation ☐ Discolouration ☐

#Stems 2 DBH(cm) 35

Assess below live crown

#Epic-Live 0 #Epic-Dead 0 #Open 2 #Sooty 2

Bark Type 5 Root 2 8

Callused Wounds 1 2

Metres from badly cankered tree
☐ < 40 ☐ > 40 ☐ None Found

Competing Species

TILIAME
BETUPAP
PINUS TR

Tree # 14-2 Zone 2 Easting 1 Northing 1

Crown Class 1 Live Crown % 0 Main Stem Length(m) 1 Below crown 1 Seed Signs 1

Butternut Origin ☐ Natural ☐ Planted ☐ Unknown

Male Flowers ☐ Female Flowers ☐ Seed Set ☐ None

Twig Dieback ☐ Branch Dieback ☐ Defoliation ☐ Discolouration ☐

#Stems 1 DBH(cm) 24

Assess below live crown

#Epic-Live 1 #Epic-Dead 1 #Open 1 #Sooty 1

Bark Type 5 Root 1 1

Callused Wounds 1 1

Metres from badly cankered tree
☐ < 40 ☐ > 40 ☐ None Found

Competing Species

TILIAME
BETUPAP
PINUS TR

TREE DEAD

Please enter matching page link code on forms 1 and 2

Page Link

355501

(Contact Information follows all applicable
privacy policies and guidelines)

Please return forms to:
Forest Gene Conservation Association
Suite 233, 266 Charlotte St.
Peterborough, ON, K9J 2V4
www.fgca.net

49731

Butternut Data Collection FORM 2 (2010 Edition)

(PLEASE USE
BLOCK LETTERS)

Fill when Form 1 indicates canker is well
established. The information on Form 2
must be filled out for all trees when doing a
Butternut Health Assessment

Shaded fields are mandatory for Butternut Health Assessments

Site Code(A,B,...Z, AA...)

Surveyor ID
or BHA # 0469

Date (dd/mm/yyyy)

08-07-2020

Surveyor Last Name REYNOLDS

Tree ID Numbering: 1,2,3,...Starting from 1 for each site

Tree # Zone Easting Northing

14-3

Crown Class 80 Live Crown %

Main Stem Length(m) Below crown

Butternut Origin

Natural

Signs Male Flowers Female Flowers

Seed Set

None

Assess below live crown

#Epic-Live #Open #Sooty

Bark Type Root

Callused Wounds

Metres from badly cankered tree

< 40 > 40 None Found

Competing Species

P I N L S T R

P O P A U T Z E

A C E R S A C

Tree # Zone Easting Northing

14-4

Crown Class 40 Live Crown %

Main Stem Length(m) Below crown

Butternut Origin

Natural

Signs Male Flowers Female Flowers

Seed Set

None

Assess below live crown

#Epic-Live #Open #Sooty

Bark Type Root

Callused Wounds

Metres from badly cankered tree

< 40 > 40 None Found

Competing Species

TREE PRUNED OFF

Tree # Zone Easting Northing

14-5

Crown Class 65 Live Crown %

Main Stem Length(m) Below crown

Butternut Origin

Natural

Signs Male Flowers Female Flowers

Seed Set

None

Assess below live crown

#Epic-Live #Open #Sooty

Bark Type Root

Callused Wounds

Metres from badly cankered tree

< 40 > 40 None Found

Competing Species

V I T I R I A

Tree # Zone Easting Northing

1

Crown Class Live Crown %

Main Stem Length(m) Below crown

Butternut Origin

Natural

Signs Male Flowers Female Flowers

Seed Set

None

Assess below live crown

#Epic-Live #Open #Sooty

Bark Type Root

Callused Wounds

Metres from badly cankered tree

< 40 > 40 None Found

Competing Species

Tree # Zone Easting Northing

1

Crown Class Live Crown %

Main Stem Length(m) Below crown

Butternut Origin

Natural

Signs Male Flowers Female Flowers

Seed Set

None

Assess below live crown

#Epic-Live #Open #Sooty

Bark Type Root

Callused Wounds

Metres from badly cankered tree

< 40 > 40 None Found

Competing Species

Please enter matching page link code on forms 1 and 2

Page Link

355501

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privacy policies and guidelines)

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Forest Gene Conservation Association
Suite 233, 266 Charlotte St.
Peterborough, ON, K9J 2V4
www.fgca.net

49731



1-50 Grant Timmins Drive
Kingston, Ontario
K7M 8N2
Tel: 343-266-0002
Fax: 343-266-0028
Email: kingston@ainleygroup.com

Draft Pavement Design Report

***Ferguson Lake Road – Kennelly Mountain Road
Southerly 5.8 Kms***

July 13, 2020

AG File No: 20553-1

Submitted To:

Greenview Environmental Management Limited
13 Commerce Court,
Bancroft, Ontario
K0L 1C0



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APPENDICIES

1.0 INTRODUCTION

Ainley Group was retained by Greenview Environmental Management (Greenview) to prepare a Pavement Design Report for Ferguson Lake Road, scheduled for reconstruction in 2020. The project limits are from Kennelly Mountain Road southerly for a distance of 5.8 km. It is expected that the roadway will be reconstructed for a design speed of 60 to 70 km/h resulting in some horizontal and vertical curve realignment, roadway widening and associated works. The existing bridge and dual culverts at Constant Creek are not included within the scope of the geotechnical work.

The purpose of this Pavement Design Report is to provide strategies for the reconstruction of the pavement. The strategies are to be based on a review of available historical pavement management and contract data, field review, and field investigations.

The following project limits and stationing are pertinent to this assignment:

<i>South Paving Limit (Southerly 5.8 km):</i>	<i>Station 2+830</i>
<i>Constance Creek Bridge and Culverts</i>	<i>Station 5+000 to 6+200 (excluded)</i>
<i>Northern Limit (Kennelly Mountain Road):</i>	<i>Station 8+520</i>

2.0 DESIGN CRITERIA

The following general information concerning cross section and traffic volumes has been extracted from available sources provided by Greenview.

2.1 Present Conditions

Within the project limits, Ferguson Lake Road is a two-lane, undivided rural roadway connecting Calabogie Road to Kennelly Mountain Road. The existing surface treated surface is approximately 7.0 m wide with 1.0 m granular shoulders.

There are a few sideroad, private and commercial entrances throughout the project limits.

2.2 Traffic Volume

The following traffic information has been provided by the Township through Greenview.

Ferguson Lake Road

AADT: 280 (15% Truck Traffic)

2.3 Existing Pavement Performance

The existing surface treated roadway was evaluated during our site visit on May 11, 2020. In general, the main distresses include:

- frequent, ravelling and coarse aggregate loss
- frequent, severe potholes
- intermittent, pavement edge break
- frequent, slight wheel track rutting
- intermittent, severe distortion
- intermittent, moderate transverse cracking

In general, the pavement performance on the section north of Constance Creek is in worse condition than the section to the south. The excluded section at Constance Creek (Station 4+870 to Station 6+200) is paved and is in good condition.

In general, the roadway is constructed on a shallow fill section throughout with the exception of deep cut sections where exposed native subsoil and bedrock is evident. Ditching through these areas is shallow and may be contributing to the overall pavement performance. The cut sections tend to be exposed subsoil with little to no vegetation on the slope. No erosion issues with these exposed slopes was noted during the field investigation and roadway review.

3.0 PROPOSED WORK

The general scope of highway improvements associated with this assignment is as follows:

- Minor Horizontal and Vertical Realignment (to be finalized)
- Pavement Reconstruction
- Reinstatement of residential and commercial entrances, “like for like”.
- Crossfall correction.

4.0 FIELD INVESTIGATION

The fieldwork completed for this project consisted of the following activities:

1. A soils investigation was completed in May, 2020. Twenty-four (24) boreholes were advanced within the existing roadway and/or edge of pavement alternating left and right of the centreline. With six (6) boreholes advanced at existing cross culverts. Nine (9) test pits were completed throughout the project limits within the roadway embankments at proposed roadway realignment areas requiring earth/rock cuts. Thirty-nine (39) probe holes were also advanced in the area of the test pits. A copy of the borehole, test pit and probe hole logs is included as **Appendix I**.

2. Representative samples of the base, subbase and subgrade materials were retrieved from selected boreholes and forwarded to SNC Lavalin in Kingston for gradation analysis and moisture content determination. In addition, extraction and penetration testing was also conducted on select asphalt cores retrieved during the field investigation. The laboratory testing results are included as **Appendix II**.

5.0 SUBSOIL CONDITIONS AND PAVEMENT STRUCTURE

5.1 Subsoil Conditions

A review of the soils data obtained from the field investigation indicates that the underlying subsoils within the project limits consists predominately of sand with varying amounts of silt, gravel, clay and cobbles. The existing subsoils are considered to have a Low Susceptibility to Frost Heave (LSFH).

5.2 Existing Pavement Structure

The typical pavement structure encountered from the borehole information consisted of the following:

Main Lanes

15 mm	Surface Treatment (ranged from 15 mm to 30 mm)
255 mm	Sand and Gravel (ranged from 75 mm to 505 mm)
645 mm	Gravelly Sand some Cobbles (ranged from 210 mm to 1300 mm) Sand varying amounts of Gravel, Silt and Clay

5.3 Laboratory Data

A copy of the laboratory results is included as **Appendix II**.

5.4 Existing Granular Base

Gradation analysis on two (2) samples of the granular base material indicated that the samples tested generally met OPSS 1010 specifications for Granular 'A'. The percent passing the 4.75 mm sieve ranged from 50.8% to 51.6% (35% to 55% allowable) and the percent passing the 75 µm sieve ranged from 9.5% to 10.3% (2% to 10% allowable). In general, the base layer was lacking in coarse aggregate and was generally on the fine side of the gradation envelope.

5.5 Existing Granular Subbase

Gradation analysis on two (2) samples of the granular subbase material indicated that the samples tested failed to meet the OPSS 1010 specifications for Granular 'B', Type I. The percent passing the 4.75 mm sieve ranged from 60.1% to 69.7% (20% to 100% allowable) and the percent passing the 75 µm sieve ranged from 11.2% to 15.3% (0% to 8% allowable). The material meets the OPSS specifications for Select Subgrade Material (SSM).

5.6 Existing Subgrade

The subgrade predominantly consists of sand with varying amounts of gravel, silt and clay. This material is very similar in nature to the sand subbase and in some instances, it was difficult to determine the difference in zone horizon. The subgrade material is considered to have a low susceptibility to frost heave.

Organic peat (fibrous and amorphous) was encountered at the following locations and depths:

Station/Offset	Depth	Soil	Comments
3+590, 1.5 m Rt	1.0 - 2.4 m	Co & Med Fib & Amor Org	Culvert location
4+302, 2.1 m Lt	1.2 – 2.7 m	Sa so Gr w Fib & Amor Org	Alignment shift left
6+030, 1.0 m Lt	1.5 – 4.0 m	Si Sa so Gr & Fib & Amor Org	Culvert location
7+624, 1.2 m Rt	1.2 – 1.8 m	Amor Peat	Exist. Alignment

5.7 Granular Base Equivalency

The following factors were utilized to calculate the existing and proposed design Granular Base Equivalency (GBE):

Existing Pavement Component	GBE Factor
Old Surface Treatment	0.0
Old Granular Base	0.75
Old Granular Subbase	0.50
New Pavement Component	GBE Factor
New Hot Mix	2.0
In-Place Processing	1.0

The average Granular Base Equivalency (GBE) based on the information obtained from the borehole investigation is 513 mm.

In consideration of the existing and projected traffic volume, percentage of commercial traffic (15%), the typical subgrade material (sands and silts with <40% between 5 and 75 µm) in comparison to the Ministry of Transportation Ontario's Pavement Design and Rehabilitation Manual for secondary highways, a GBE of **200** is recommended.

5.8 Centreline Culverts

Three (3) centreline culverts were investigated to determine the typical underlying subsoil conditions. Based on the borehole investigation, the following typical pavement and subsoil structure was encountered:

15 mm	Surface Treatment
255 mm	Sand and Gravel
645 mm	Gravelly Sand some Cobbles over Sand varying amounts of Gravel, Silt and Clay

6.0 DESIGN CONSIDERATIONS

The scope of this assignment is to determine a pavement rehabilitation strategy in consideration of both structural and functional performance. Based on the results of the field and laboratory testing programs, the existing pavement structure is considered structurally adequate for existing and future anticipated traffic loading.

Based on the proposed minor horizontal and vertical realignment under consideration and the conditions of the existing surface treatment, it is recommended that in-place processing of the existing surface treatment and underlying granular base material be completed.

A return to a granular surface will enable ease of construction during grading operations associated with the horizontal widening required for the horizontal realignment and any grade raise or grade cuts due to vertical realignment.

Based on the traffic volume, a surface treatment wearing course is adequate however, it is understood that the Township has requested a hot mix surface throughout the project.

In-place processing to a depth of 150 mm throughout, fine grading to correct crossfall and paving with 50 mm HL4 Surface Course will result in a design GBE of 650 mm (Target GBE: 250 mm).

7.0 RECOMMENDATIONS

7.1 Existing Ferguson Lake Road and Sideroad Intersections

In-place process to a depth of 150 mm throughout.

7.2 Grading

At the time of draft report preparation, a proposed 60 to 70 km/h design speed was under consideration resulting in horizontal and vertical realignment. The realignment will result in a horizontal shift of the existing centreline that generally remains within the width of the existing roadbed.

To construct the new roadbed, widening of the existing roadbed will be completed through existing fill sections (on existing roadbed embankment side slopes) and cut sections (soil and bedrock side cuts). The field investigation determined that the existing roadway base and subbase material is suitable as earth fill material or reuse as a subbase material. Through the existing cut sections, the soil generally consists of sand with gravel and cobbles in varying amounts. The silt content is generally low (ie. less than 10%) and as such, this material could be considered for use as granular fill provided the operation is closely monitored during construction.

Typical OPSD grading sections should be followed with the exception that roadway side slopes should not exceed 2H:1V. Backslopes beyond the ditch line should be designed to a maximum of 1.5H:1V. All exposed side slopes should be treated with topsoil and seed and mulch as soon as possible upon completion of fine grading operations.

7.2.1 Horizontal Realignment

Excavate vertically at the existing edge of pavement and provide for:

150 mm OPSS 1010 Granular 'A'
Acceptable granular fill

It is noted that depending on the contractor's staging operation, the existing roadway base and subbase may be used as granular fill. In addition, fill material generated from any earth or rock cut excavation is also suitable as granular fill material to achieve the necessary widening. Refer to typical fill section depicted in **Appendix III**.

Through earth cut sections, the existing material is considered suitable as subgrade beneath the proposed Granular 'A' base layer. In sections where bedrock subgrade will be encountered during widening, the bedrock should be shattered to a depth of 0.3 m prior to placing the Granular 'A' base and/or granular fill layers.

7.2.2 Vertical Realignment:

At the time of preparation of the draft report, the extent of the vertical realignment was unknown. To provide preliminary recommendations, we offer the following general recommendations:

Cuts

Provide for the following minimum pavement structure:

150 mm OPSS 1010 Granular 'A'

Fills

For fills less than 300 mm, place all Granular 'A'.

For fills over 300 mm, place acceptable granular fill and a minimum of 150 Granular 'A'.

7.2.3 Subgrade Preparation due to Organic Soil

As noted previously, subsoil consisting of a mix of sand and gravel with fibrous and amorphous organic material was identified at some of the borehole locations. We recommend the following for consideration:

Station/Offset	Depth	Recommendation
Centreline Culverts	N/A	See Section 7.4
4+302, 2.1 m Lt	1.2 – 2.7 m	Alignment shift is minor (less than 1 m), roadway is in good condition, no action necessary.
7+624, 1.2 m Rt	1.2 – 1.8 m	Excavate to the existing peat layer, place a non-woven, Class II geotextile for the full width of the proposed roadway (ditch line to ditch line), place a biaxial geogrid and backfill with granular fill to the underside of the new granular 'A' base layer. Assume treatment length Sta. 7+614 to Sta. 7+634.

7.3 Hot Mix Paving

Pave with 50 mm HL4 Surface Course throughout. The recommended asphalt cement is PG58-34.

7.4 Centreline Culvert Replacements

Based on our observations, the existing centreline culverts are relatively shallow (less than 1 m depth to invert). It is recommended that embedment, bedding, and cover materials consist of Granular 'A', as per OSPD 800 series. For flexible and rigid circular pipes, a minimum bedding depth of 200 mm should be provided (Class C bedding for rigid pipes).

Prior placing the bedding, it is recommended to place a non-woven, Class II geotextile on the exposed subgrade and continue the cloth placement up the trench wall to the roadway subgrade level. Backfill shall consist of the existing native subsoil material excavated at the

culvert locations. Bedding and backfill should be placed in accordance with OPSD 800 series for the applicable culvert type.

In general, the base, subbase, and subsoil materials encountered may be considered as Type 3 soil for excavation purposes. Site conditions at the time of construction may deviate from what was encountered at the time of the field investigation and the contractor should support the excavations based on the condition of the materials encountered at the time of construction.

7.5 Frost Penetration Depth

The frost penetration depth for this project is 1.8 m.

7.6 Soil Erodibility

As indicated, there are several exposed soil cut slopes throughout the roadway section. It is understood in discussion with the Township that soil erosion of these exposed slopes has not been an issue historically. Based on the existing native subsoil encountered (sand with silt trace gravel and clay), a soil erodibility factor (K) of 0.35 has been established. Highly erodible soils have a K value of 0.6 or higher while non-erodible soils have a K value of 0.2 or lower.

7.7 Topsoil Depth

It is recommended that all cut slopes be treated with a minimum of 50 mm of topsoil.

8.0 CONCLUSIONS

We trust the attached information meets your needs at this time and should you have any questions or concerns, please do not hesitate to contact our office.

Yours very truly,

AINLEY GRAHAM & ASSOCIATES LIMITED



Lois-Ann L. Hayes, P.Eng.
Geotechnical Project Engineer

Appendix I – Borehole, Test Pit and Probe Hole Logs and Location Plan

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LEGEND:

- EXISTING ALIGNMENT
- 60 KM/H ALIGNMENT
- 90 KM/H ALIGNMENT

FERGUSON LAKE ROAD
GREENVIEW ENVIRONMENTAL MANAGEMENT
BANCROFT, ON
0+000 - 0+580
SCALE: 1:750 (22X34) 1:1500 (11X17)





LEGEND:

- EXISTING ALIGNMENT
- 60 KM/H ALIGNMENT
- 90 KM/H ALIGNMENT

FERGUSON LAKE ROAD
GREENVIEW ENVIRONMENTAL MANAGEMENT
BANCROFT, ON
0+580 - 1+260
SCALE: 1:750 (22X34) 1:1500 (11X17)





LEGEND:

- EXISTING ALIGNMENT
- 60 KM/H ALIGNMENT
- 90 KM/H ALIGNMENT

FERGUSON LAKE ROAD
GREENVIEW ENVIRONMENTAL MANAGEMENT
BANCROFT, ON
1+260 - 1+900
SCALE: 1:750 (22X34) 1:1500 (11X17)





LEGEND:

- EXISTING ALIGNMENT
- 60 KM/H ALIGNMENT
- 90 KM/H ALIGNMENT

FERGUSON LAKE ROAD
GREENVIEW ENVIRONMENTAL MANAGEMENT
BANCROFT, ON
1+900 - 2+560
SCALE: 1:750 (22X34) 1:1500 (11X17)





LEGEND:

- EXISTING ALIGNMENT
- 60 KM/H ALIGNMENT
- 90 KM/H ALIGNMENT

FERGUSON LAKE ROAD
GREENVIEW ENVIRONMENTAL MANAGEMENT
BANCROFT, ON
2+560 - 3+200
SCALE: 1:750 (22X34) 1:1500 (11X17)





LEGEND:

- EXISTING ALIGNMENT
- 60 KM/H ALIGNMENT
- 90 KM/H ALIGNMENT

FERGUSON LAKE ROAD
GREENVIEW ENVIRONMENTAL MANAGEMENT
BANCROFT, ON
3+200 - 3+780
SCALE: 1:750 (22X34) 1:1500 (11X17)



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LEGEND:

- EXISTING ALIGNMENT
- 60 KM/H ALIGNMENT
- 90 KM/H ALIGNMENT

FERGUSON LAKE ROAD
GREENVIEW ENVIRONMENTAL MANAGEMENT
BANCROFT, ON
3+780 - 4+420
SCALE: 1:750 (22X34) 1:1500 (11X17)





LEGEND:

- EXISTING ALIGNMENT
- 60 KM/H ALIGNMENT
- 90 KM/H ALIGNMENT

FERGUSON LAKE ROAD
GREENVIEW ENVIRONMENTAL MANAGEMENT
BANCROFT, ON
4+420 - 5+060
SCALE: 1:750 (22X34) 1:1500 (11X17)





LEGEND:

- EXISTING ALIGNMENT
- 60 KM/H ALIGNMENT
- 90 KM/H ALIGNMENT

FERGUSON LAKE ROAD
GREENVIEW ENVIRONMENTAL MANAGEMENT
BANCROFT, ON
5+060 - 5+680
SCALE: 1:750 (22X34) 1:1500 (11X17)



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LEGEND:

- EXISTING ALIGNMENT
- 60 KM/H ALIGNMENT
- 90 KM/H ALIGNMENT

FERGUSON LAKE ROAD
GREENVIEW ENVIRONMENTAL MANAGEMENT
BANCROFT, ON
5+680 - 6+660
SCALE: 1:750 (22X34) 1:1500 (11X17)



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LEGEND:

- EXISTING ALIGNMENT
- 60 KM/H ALIGNMENT
- 90 KM/H ALIGNMENT

FERGUSON LAKE ROAD
GREENVIEW ENVIRONMENTAL MANAGEMENT
BANCROFT, ON
6+660 - 6+960
SCALE: 1:750 (22X34) 1:1500 (11X17)



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LEGEND:

- EXISTING ALIGNMENT
- 60 KM/H ALIGNMENT
- 90 KM/H ALIGNMENT

FERGUSON LAKE ROAD
GREENVIEW ENVIRONMENTAL MANAGEMENT
BANCROFT, ON
6+960 - 7+560
SCALE: 1:750 (22X34) 1:1500 (11X17)





LEGEND:

- EXISTING ALIGNMENT
- 60 KM/H ALIGNMENT
- 90 KM/H ALIGNMENT

FERGUSON LAKE ROAD
GREENVIEW ENVIRONMENTAL MANAGEMENT
BANCROFT, ON
7+560 - 8+140
SCALE: 1:750 (22X34) 1:1500 (11X17)





LEGEND:

- EXISTING ALIGNMENT
- 60 KM/H ALIGNMENT
- 90 KM/H ALIGNMENT

FERGUSON LAKE ROAD
GREENVIEW ENVIRONMENTAL MANAGEMENT
BANCROFT, ON
8+140 - 8+780
SCALE: 1:750 (22X34) 1:1500 (11X17)



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LEGEND:

- EXISTING ALIGNMENT
- 60 KM/H ALIGNMENT
- 90 KM/H ALIGNMENT

FERGUSON LAKE ROAD
GREENVIEW ENVIRONMENTAL MANAGEMENT
BANCROFT, ON
8+780 - 9+322
SCALE: 1:750 (22X34) 1:1500 (11X17)



ABBREVIATIONS FOR BORING AND TEST DATA

Amor	— Amorphous	Grn	— Green	Ip	— Plasticity Index
Asph	— Asphalt	Grey	— Grey	PSty	— Polystyrene
BR	— Bedrock	Hi	— Highly	Poss	— Possible
Blk	— Black	HM	— Hot Mix	PST	— Prime & Surface Treated
Bl	— Blue	Lt	— Light	Quant	— Quantity
Bld(y)	— Boulder (y)	Liq	— Liquid	Reinf	— Reinforced
Blds	— Boulders	w _L	— Liquid Limit	RF	— Rock Fill
BU	— Break Up	Matl	— Material	Sa	— Sand
Br	— Brown	Max	— Maximum	Sat	— Saturated
Cl	— Clay	MDD	— Maximum Dry Density	Sh Rk	— Shot Rock
Co	— Coarse	MWD	— Maximum Wet Density	Si	— Silt(y)
Cob	— Cobbles	Med	— Medium	Sl(y)	— Slight(ly)
Comp	— Compact	Mod	— Moderate	D _R	— Relative Density
Conc	— Concrete	Mott	— Mottled	Stks	— Streaks
Contam	— Contaminated	Mul	— Mulch	Surf	— Surface
Cord	— Corduroy	NFP	— No Further Progress	Temp	— Temperature
Cr	— Crushed	NFP (Blds)	— No Further Progress (Boulders)	Tps	— Topsoil
Dk	— Dark	Num	— Numerous	Tr	— Trace
Decomp	— Decomposed	Occ	— Occasional	Unreinf	— Unreinforced
E	— Earth	w _{opt}	— Optimum Moisture Content	Varv	— Varved
Fib	— Fibrous	Ora	— Orange	VF	— Very Fine
w	— Field Moisture Content	Org	— Organic	WT	— Water Table
F	— Fine	Org M	— Organic Matter	Weath	— Weathered
Fr Wat	— Free Water	Ob	— Overburden	Wd(y)	— Wood(y)
FB	— Frost Boil	Pavt	— Pavement	Yel	— Yellow
FH	— Frost Heave	Pedo	— Pedological		
Gran	— Granular	Pen Mac	— Penetration Macadam		
Gr	— Gravel(ly)	w _p	— Plastic Limit		

SUSCEPTIBILITY TO FROST HEAVING

HSFH — High
 BSFH — Borderline
 LSFH — Low

BOREHOLE LOGS

BH1, SBL, 8+550 1.2 Lt CL (Mt. St. Patrick) (219.50)

0	-	30	Surface Treatment
30	-	230	Br Sa w Gr, compact
230	-	1.10	Br Sa w Gr so Cobs, compact
	-	1.10	NFP, INF BR

BH2, SBL, 8+240 1.2 m Lt CL (205.30)

0	-	15	Surface Treatment
15	-	200	Br Sa & Gr, compact, JC004
			% Passing JC004
			4.75 mm = 50.8
			75 µm = 9.5
			Moisture Content = 2.7%
200	-	1.50	Br Sa w Si tr Gr & Cl & Cobs, compact, JC005
	-	1.50	NFP, refusal on Cobs

BH3, SBL, 7+960 1.5 m Lt CL (192.63)

0	-	15	Surface Treatment
15	-	300	Br Sa & Gr, compact
300	-	710	Br Gr Sa, compact
710	-	1.50	Br Sa w Si tr Gr & Cl & Cobs, moist, loose
	-	1.50	End of BH

BH4, SBL, 7+870 1.5 m Lt CL, CV00468 (191.86)

0	-	15	Surface Treatment
15	-	260	Br Sa & Gr, compact
260	-	1.35	Br Gr Sa & Cobs, compact
	-	1.35	NFP, refusal on Cobs

BH5, NBL, 7+860 1.5 m Rt CL, CV00468 (191.53)

0	-	15	Surface Treatment
15	-	250	Br Sa & Gr, compact, JC006
250	-	1.10	Br Gr Sa & Cobs, loose, JC007
1.10	-	1.20	Dk Br Si Sa tr Gr, loose, moist
1.20	-	3.00	Br Sa w Si tr Gr & Cl & Cobs, compact, JC008
	-	3.00	End of BH

BH6, SBL, 7+624 1.2 m Lt CL (186.70)

0	-	15	Surface Treatment
15	-	240	Br Sa & Gr, compact
240	-	700	Br Gr Sa, compact
700	-	1.20	Br Gr Sa & Cobs, compact
1.20	-	1.80	Blk Amor Peat, moist
1.80	-	3.00	Br Sa w Si tr Gr & Cl & Cobs, loose, wet, compact at 2.75m, JC009
	-	3.00	End of BH, groundwater encountered at 1.5 m

BH7, NBL, 7+259 1.2 m Rt CL (185.55)

0	-	15	Surface Treatment
15	-	300	Br Sa & Gr, compact, JC010
300	-	800	Br Gr Sa & Cobs, compact, JC011
			% Passing JC011
			4.75 mm = 69.7
			75 µm = 15.3
			Moisture Content = 3.8%
800	-	1.50	Br Sa w Si tr Gr & Cobs, loose, compact, and 1.2m
	-	1.50	End of BH

BH8, SBL, 6+970 2.0 m Lt CL (184.26)

0	-	15	Surface Treatment
15	-	300	Br Sa & Gr, compact
300	-	800	Br Gr Sa, compact
800	-	1.50	Br Sa w Si tr Gr & Cl & Cobs, compact, JC012
			% Passing JC012
			4.75 mm = 98.5
			75 µm = 27.9
			Moisture Content = 7.3%
	-	1.50	End of BH

BH9, SBL, 6+710 1.8 m Lt CL (182.88)

0	-	15	Surface Treatment
15	-	280	Br Sa & Gr, compact
280	-	670	Br Gr Sa so Cobs, compact
670	-	2.25	Br Sa w Si tr Gr & Cl & Cobs, compact
2.25	-	3.00	Grey Si Sa tr Gr & Cl, loose, moist, compact at 2.7m, JC013
			% Passing JC013
			4.75 mm = 98.0
			75 µm = 46.0
			5 µm = 13.0 LSFH
			2 µm = 10.0
			Moisture Content = 19.9%
	-	3.00	End of BH

BH10, NBL, 6+432 2.0 m Rt CL (190.12)

0	-	10	Surface Treatment
10	-	230	Br Sa & Gr, compact
230	-	1.50	Br Gr Sa so Cobs, compact
	-	1.50	End of BH

BH11, SBL, 6+140 1.5 m Lt CL (184.92)

0	-	15	Surface Treatment
15	-	260	Br Sa & Gr, compact
260	-	700	Br Gr Sa tr Cobs, compact
700	-	1.50	Br Sa w Si tr Gr & Cl & Cobs, compact, JC014
			% Passing JC014
			4.75 mm = 97.0
			75 µm = 37.0
			5 µm = 10.0 LSFH
			2 µm = 8.0
			Moisture Content = 11.2%
	-	1.50	End of BH

BH12, SBL, 6+030 1.0 m Lt CL, CV00463 (181.36)

0	-	15	Surface Treatment
15	-	320	Br Sa & Gr, compact, JC015
320	-	930	Br Gr Sa so Cobs, compact, becoming wet, JC016
930	-	1.50	Grey Si Sa tr Gr & Cl, compact, wet, JC017
1.50	-	4.00	Dk Br Si Sa so Gr & Fib & Amor Org tr Cl, loose, wet, JC018
4.00	-	4.50	Grey Sa so Gr, compact, wet
	-	4.50	End of BH, groundwater encountered at 2.1 m

BH13, NBL, 6+020 1.1 m Rt CL, CV00463 (181.33)

0	-	15	Surface Treatment
15	-	500	Br Sa & Gr, compact
500	-	1.50	Br Gr Sa so Cobs, compact
1.50	-	1.80	Grey Si Sa tr Gr & Cl, compact, moist
1.80	-	4.50	Grey Si & Sa tr Gr & Cl, loose, wet, compact at 4.0 m, JC019
			% Passing JC019
			4.75 mm = 96.0
			75 µm = 56.0
			5 µm = 6.0 MSFH
			Moisture Content = 23.3%
	-	4.50	End of BH, groundwater encountered at 2.1 m

BH14, SBL, 4+837 1.8 m Lt CL (200.54)

0	-	15	Surface Treatment
15	-	260	Br Sa w Gr, compact
260	-	500	Br/Red Gr Sa, compact
500	-	1.50	Br Sa so Gr & Cobs, compact
	-	1.50	End of BH

BH15, SBL, 4+600 1.8 m Lt CL, Location of past artesian condition (202.50)

0	-	15	Surface Treatment
15	-	200	Br Sa & Gr, compact, JC020
200	-	1.10	Br Gr Sa so Cobs, compact, JC021
1.10	-	2.25	Br Sa so Gr & Gr, loose, wet, JC022
	-	2.25	NFP, INF BR, groundwater encountered at 1.1 m

BH16, SBL, 4+302 2.1 m Lt CL, Location of past report organic fill (203.95)

0	-	15	Surface Treatment
15	-	200	Grey Sa & Gr, compact
200	-	450	Br Sa & Gr, compact
450	-	750	Br Gr Sa so Cobs, compact
750	-	1.20	Br Sa, loose, wet
1.20	-	2.70	Blk Sa so Gr w Fib & Amor Org, loose, wet
2.70	-	3.00	Grey Si Sa so Gr & Cobs, compact, wet
	-	3.00	End of BH, groundwater encountered at 1.5 m

BH17, NLB, 3+937 2.0 m Rt CL (188.50)

0	-	15	Surface Treatment
15	-	150	Grey Sa & Gr, compact
150	-	540	Br Gr Sa, compact
540	-	1.50	Br Sa so Si & Gr & Cobs, compact
	-	1.50	End of BH

BH18, SBL, 3+674 1.9 m Lt CL (182.46)

0	-	15	Surface Treatment
15	-	200	Grey Sa & Gr, compact, JC023
			% Passing JC023
			4.75 mm = 51.6
			75 µm = 10.3
			Moisture Content = 1.8%
200	-	750	Br Gr Sa so Cobs, JC024
			% Passing JC024
			4.75 mm = 60.1
			75 µm = 11.2
			Moisture Content = 3.8%
	-	750	NFP, refusal on Blds

BH19, SBL, 3+604 1.2 m Lt CL, CV00454 (182.21)

0	-	15	Surface Treatment
15	-	280	Grey Sa & Gr, compact
280	-	600	Br Gr Sa, compact
600	-	1.00	Dk Br Sa so Si & Gr tr Amor Org, loose
1.00	-	3.00	Br Sa so Si & Gr, compact, wet, JC025
	-	3.00	End of BH, groundwater encountered at 0.75 m

BH20, NBL, 3+590 1.5 m Rt CL, CV00454 (182.25)

0	-	15	Surface Treatment
15	-	260	Grey Sa & Gr, compact
260	-	470	Br Gr Sa so Cobs, compact
470	-	1.00	Dk Br Sa w Si & Gr, loose, JC026
			% Passing JC026
			4.75 mm = 76.5
			75 µm = 22.1
			Moisture Content = 8.4%
1.00	-	2.40	Co & Mid Fib & Amor Org Peat
2.40	-	3.00	Br Sa w Si so Gr tr Cobs, compact, wet
	-	3.00	End of BH, groundwater encountered at 1.2 m

BH21, SBL, 3+371 1.2 m Lt CL (183.53)

0	-	15	Surface Treatment
15	-	250	Grey Sa & Gr, Compact
250	-	660	Br Gr Sa, compact
660	-	1.50	Br Sa so Si & Gr, compact
	-	1.50	End of BH

BH22, NBL, 3+120 1.75 m Rt CL (183.81)

0	-	15	Surface Treatment
15	-	220	Grey Sa & Gr, compact, JC027
220	-	450	Br Gr Sa, compact, JC028
450	-	1.50	Br Sa w Si tr Gr & Cl, compact, JC029
			% Passing JC029
			4.75 mm = 99.7
			75 µm = 36.5
			Moisture Content = 7.8%
	-	1.50	End of BH

BH23, SBL, 2+990 2.0 m Lt CL (184.51)

0	-	15	Surface Treatment
15	-	90	Grey Sa & Gr, compact
90	-	350	Br Gr Sa, compact
350	-	1.20	Br Sa so Si tr Gr & Cobs, compact
	-	1.20	NFP, INF BR

BH24, NBL, 2+875 1.8 m Rt CL (182.67)

0	-	15	Surface Treatment
15	-	100	Grey Sa & Gr, compact
100	-	520	Br Gr Sa, compact
520	-	1.50	Br Sa so Si & Gr & Cobs, compact
	-	1.50	End of BH

TEST PIT LOGS

TP1, 7+812 6.0 m Rt CL (188.89)

0	-	100	Br Si Sa w rootlets, TPS
100	-	600	Br Sa tr Gr loose
600	-	700	TPS Remnant
700	-	1.80	Br Sa so Gr & Si, compact
	-	1.80	End of TP

TP2, 7+390 6.0 m Lt CL (186.68)

0	-	150	DK Br Si Sa so Gr & rootlets, TPS
150	-	800	Br Sa so Gr & Cobs, loose
800	-	1.80	Lt Br Sa, loose, JC003
	-	1.80	End of TP

TP3, 6+625 8.0 m Rt CL (188.51)

0	-	100	Br Sa so Gr & rootlets, loose
100	-	1.80	Br Sa w Gr & Cobs tr Blds, loose, compact at 1.2, JC002
	-	1.80	End of TP

TP4, 4+570 8.0 m Rt CL (203.66)

0	-	450	Br Sa tr Si & Gr & Cobs & rootlets, loose
450	-	900	Br Sa tr Si & Gr & Cobs, loose
900	-	1.60	Br Sa so Gr & Cobs & Blds, compact
	-	1.60	NFP, Refusal on fractured BR

TP5, 4+167 8.0 m Rt CL (199.52)

0	-	100	Br Sa tr Gr, loose
	-	100	NFP, Refusal on fractured BR, BR face slopping down toward road 0.6 m to BR at north edge of TP

TP6, 4+100 8.0 m Rt CL (194.76)

0	-	1.80	Br Sa so Si & Gr & Cobs, compact, loose at times, JC001
	-	1.80	End of TP, increasing Cobs with depth

TP7, 3+324 8.0 m Lt CL (182.57)

0	-	150	Br Sa tr Gr & rootlets, TPS
150	-	900	Br Sa tr Gr, loose
900	-	1.80	Br Sa w Gr tr Cobs, compact
	-	1.80	End of TP

TP8, 2+997 7.0 m Lt CL (184.25)

0	-	100	Br Sa so Gr & Cobs & Blds, loose
	-	100	NFP, refusal on fractured BR, BR face slopping down toward road 0.65 m to BR at south edge of TP

TP9, 2+958 7.0 m Lt CL (184.63)

0	-	200	Br Sa so Gr & Cobs & Blds, loose
	-	200	NFP, refusal on BR, BR face slopping down toward road 1.20 m to BR at south edge of TP

PROBE HOLE LOGS

Group 1, String 1 (TP8-TP9) (2+958 to 2+997 12.5 m Lt CL)

1	-	+1.5 m overburden
2	-	+1.5 m overburden
3	-	+1.5 m overburden
4	-	0.3 m to refusal

Group 1, String 2 (TP8-TP9) (2+958 to 2+997 20.0 m Lt CL)

1	-	0.6 m to refusal
2	-	BR at surface
3	-	0.4 m to refusal
4	-	0.7 m to refusal

Group 2, String 1 (TP5-TP6) (4+100 to 4+167 13.0 m Rt CL)

- | | | |
|---|---|-------------------|
| 1 | - | +1.5 m overburden |
| 2 | - | +1.5 m overburden |
| 3 | - | +1.5 m overburden |
| 4 | - | +1.5 m overburden |
| 5 | - | +1.5 m overburden |

Group 2, String 2 (TP5-TP6) (4+100 to 4+167 22.0 m Rt CL)

- | | | |
|---|---|-------------------|
| 1 | - | +1.5 m overburden |
| 2 | - | 1.35 m to refusal |
| 3 | - | +1.5 m overburden |
| 4 | - | +1.5 m overburden |
| 5 | - | 0.2 m to refusal |
| 6 | - | 0.75 m to refusal |
| 7 | - | +1.5 m overburden |

Group 3, String 1 (TP4) (4+536 to 4+611 11.0 m Rt CL)

- | | | |
|----|---|--------------------------|
| 1 | - | 0.6 m to refusal |
| 2 | - | 0.6 m to refusal |
| 3 | - | 0.75 m to refusal |
| 4 | - | 0.1 m to refusal (Blds) |
| 5 | - | 0.15 m to refusal (Blds) |
| 6 | - | 0.3 m to refusal |
| 7 | - | 0.45 m to refusal |
| 8 | - | 0.15 m to refusal |
| 9 | - | 0.45 m to refusal |
| 10 | - | 0.3 m to refusal |

Group 4, String 1 (TP2) (7+355 to 7+420 12.0 m Rt CL)

- | | | |
|---|---|--------------------------|
| 1 | - | +1.5 m overburden |
| 2 | - | 1.15 m to refusal (Blds) |
| 3 | - | +1.5 m overburden |
| 4 | - | 1.2 m to refusal |
| 5 | - | 1.0 m to refusal (Blds) |
| 6 | - | 1.0 m to refusal (Blds) |
| 7 | - | 0.3 m to refusal (Blds) |
| 8 | - | 0.6 m to refusal |
| 9 | - | 0.15 m to refusal |

Appendix II – Laboratory Results



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Lab # 19955 Client Ainley

Project Name: 20553-1 Ferguson Lake Road Date: June 5, 2020

SAMPLE INFORMATION	SAMPLE	MASS OF SAMPLE WET & TARE (g)	MASS OF SAMPLE DRY & TARE (g)	MASS OF WATER (g)	MASS OF DRY SOIL (g)	MASS OF TARE (g)	MOISTURE CONTENT (%)
JC004	A	566.4	553	13.4	499.6	53.4	2.7
JC011	B	479	466.2	12.8	340.2	126	3.8
JC023	C	395	389.2	5.8	315.3	73.9	1.8
JC024	D	508.8	493.1	15.7	412.8	80.3	3.8
JC026	E	514.8	485.5	29.3	349	136.5	8.4
JC029	F	381.2	363.7	17.5	224.6	139.1	7.8
JC019	G	525.2	451.7	73.5	315.4	136.3	23.3
JC013	H	579.2	506.1	73.1	367.5	138.6	19.9
JC012	I	459.4	437.3	22.1	301	136.3	7.3
JC014	J	606.5	559.1	47.4	423.6	135.5	11.2

ENGINEERING

MOISTURE CONTENT

(LS-701)

PROJECT #

20-1690-01

DATE

JUNE 5/00

PROJECT NAME

20553-1 FERGUSON
LAKE RD

LAB #

19955

SAMPLE

DESCRIPTION

SOIL

SAMPLE	WEIGHT OF SAMPLE WET & TARE (g)	WEIGHT OF SAMPLE DRY & TARE (g)	WEIGHT OF WATER (g) A	WEIGHT OF DRY SOIL (g) B	WEIGHT OF TARE (g)	MOISTURE CONTENT $A \div B \times 100$ (%)
A	566.4	553.0		499.6	53.4	
B	479.0	466.2		340.2	126.0	
C	395.0	389.2		315.3	73.9	
D	508.8	493.1		412.8	80.3	
E	514.8	485.5		349.0	136.5	
F	381.2	363.7		224.6	139.1	
G	525.2	451.7			136.3	
H	579.2	506.1			138.6	
I	459.4	437.3		301.0	136.3	
J	606.5	559.1			135.5	

TECHNICIAN: _____

SUPERVISOR: _____



SNC • LAVALIN

SNC-Lavalin GEM Ontario Inc.

1164 Clyde Court

Kingston, Ontario K7P 2E4

(613) 389-1781 (613) 389-4204

Grain Size Analysis Test Report

Project No.: 20-1690-01 Project Description: Lab Testing

Date: Jun 11, 2020

Project Location:

Contract No.:

SAMPLE DATA

Material: Granular
Date Sampled: Jun 05, 2020
Time Sampled:
Sample Type: Borehole
Sample Location: JC004,BH#2,0.015-0.2M 20553-1 Ferguson Lake Road
Lot: Sublot:
Source: Ainley
Sampled By: Client

LAB DATA

Lab No.: 19955-A Date Tested: Jun 11, 2020
Specification: OPSS, Granular A

PARTICLE ANALYSIS

TEST	Sample	Specification
Percent Crushed:		60
% Asphalt Coated:		30
% Flat and Elongated		

WASH PASS 0.075mm

TEST	Sample	Specs
Wash Pass 0.075 mm:		
FINENESS MODULUS		2.37

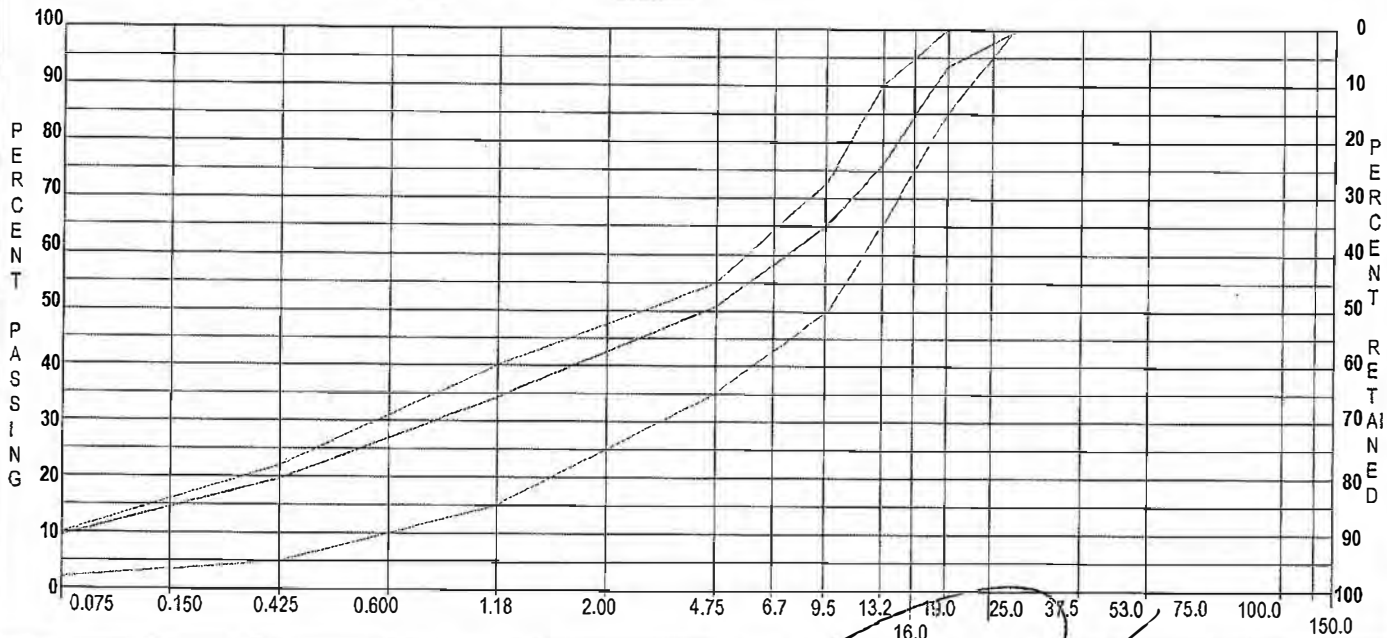
Grain Size Analysis

Sieve Sizes (mm)	Percent Passing	
	Sample	Specification
150.0		-
100.0		-
75.0		-
53.0		-
50.0		-
37.5		-
26.5	100	100 - 100
25.0		-
19.0	93.4	85 - 100
16.0		-
13.2	76	65 - 90
9.5	65.3	50 - 73
6.7		-
4.75	50.8	35 - 55
2.36		-
2.00		-
1.18	34.2	15 - 40
0.600		-
0.425		-
0.300	19.6	5 - 22
0.150		-
0.075	9.5	2 - 10

* Indicates Out of Specification

Comments: Moisture Content is 2.7%

Sample: _____ Specs: _____



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Project Manager: Mark McClelland, C.E.T

Infrastructure





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SNC-Lavalin GEM Ontario Inc.

1164 Clyde Court

Kingston, Ontario K7P 2E4

(613) 389-1781 (613) 389-4204

Grain Size Analysis Test Report

Project No.: 20-1690-01 Project Description: Lab Testing

Date: Jun 11, 2020

Project Location:

Contract No.:

SAMPLE DATA

Material: Granular
Date Sampled: Jun 05, 2020
Time Sampled:
Sample Type: Borehole
Sample Location: JC011,BH#7,0.3-0.8M 20553-1 Ferguson Lake Road
Lot: Sublot:
Source: Ainley
Sampled By: Client

LAB DATA

Lab No.: 19955-B Date Tested: Jun 11, 2020
Specification: OPSS1010, Granular B Type I

PARTICLE ANALYSIS

TEST	Sample	Specification
Percent Crushed:		
% Asphalt Coated:		30
% Flat and Elongated		

WASH PASS 0.075mm

TEST	Sample	Specs
Wash Pass 0.075 mm:		
FINENESS MODULUS	1.54	

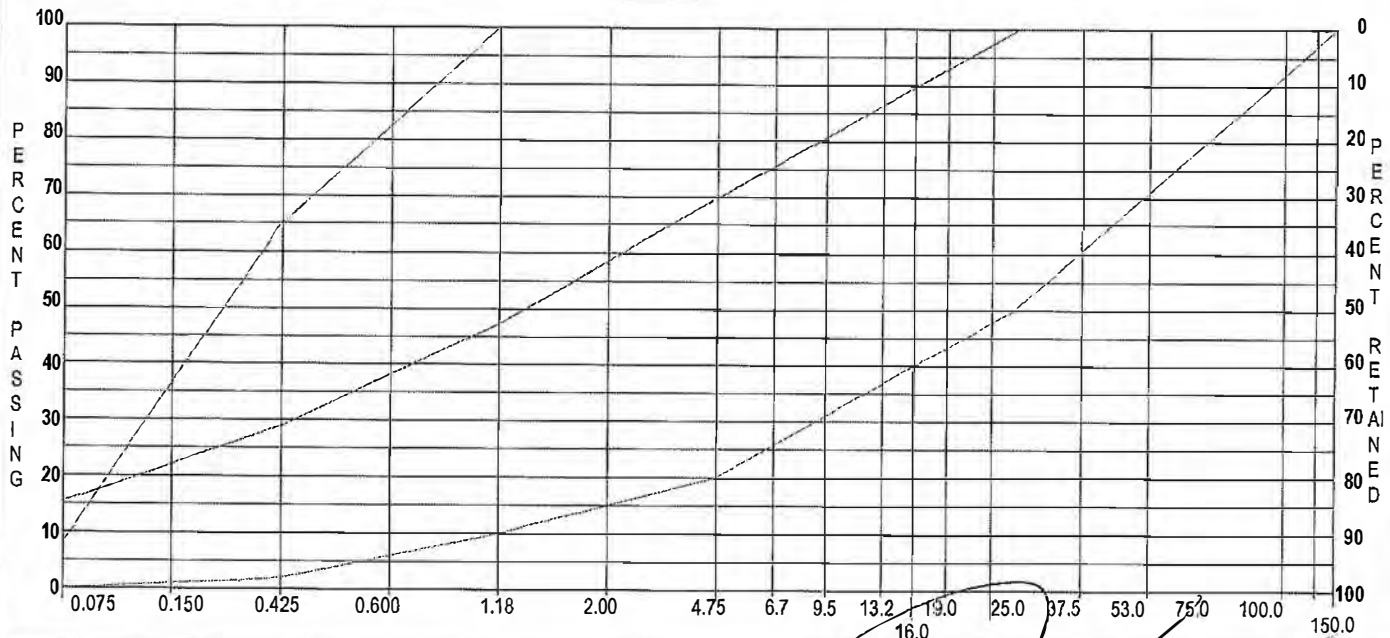
Grain Size Analysis

Sieve Sizes (mm)	Percent Passing	
	Sample	Specification
150.0	100	100 - 100
100.0		-
75.0		-
53.0		-
50.0		-
37.5		-
26.5	100	50 - 100
25.0		-
19.0		-
16.0		-
13.2		-
9.5		-
6.7		-
4.75	69.7	20 - 100
2.36		-
2.00		-
1.18	47.3	10 - 100
0.600		-
0.425		-
0.300	28.9	2 - 65
0.150		-
0.075	15.3*	0 - 8

* Indicates Out of Specification

Comments: Moisture Content is 3.8%

Sample: _____ Specs: _____



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Project Manager: Mark McClelland, C.E.T.

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1164 Clyde Court

Kingston, Ontario K7P 2E4

(613) 389-1781 (613) 389-4204

Grain Size Analysis Test Report

Project No.: 20-1690-01 Project Description: Lab Testing

Date: Jun 11, 2020

Project Location:

Contract No.:

SAMPLE DATA

Material: Granular
Date Sampled: Jun 05, 2020
Time Sampled:
Sample Type: Borehole
Sample Location: JC023,BH#18,0.015-0.2M 20553-1 Ferguson Lake Road
Lot: Sublot:
Source: Ainley
Sampled By: Client

LAB DATA

Lab No.: 19955-C Date Tested: Jun 11, 2020
Specification: OPSS, Granular A

PARTICLE ANALYSIS

TEST	Sample	Specification
Percent Crushed:		60
% Asphalt Coated:		30
% Flat and Elongated		

WASH PASS 0.075mm

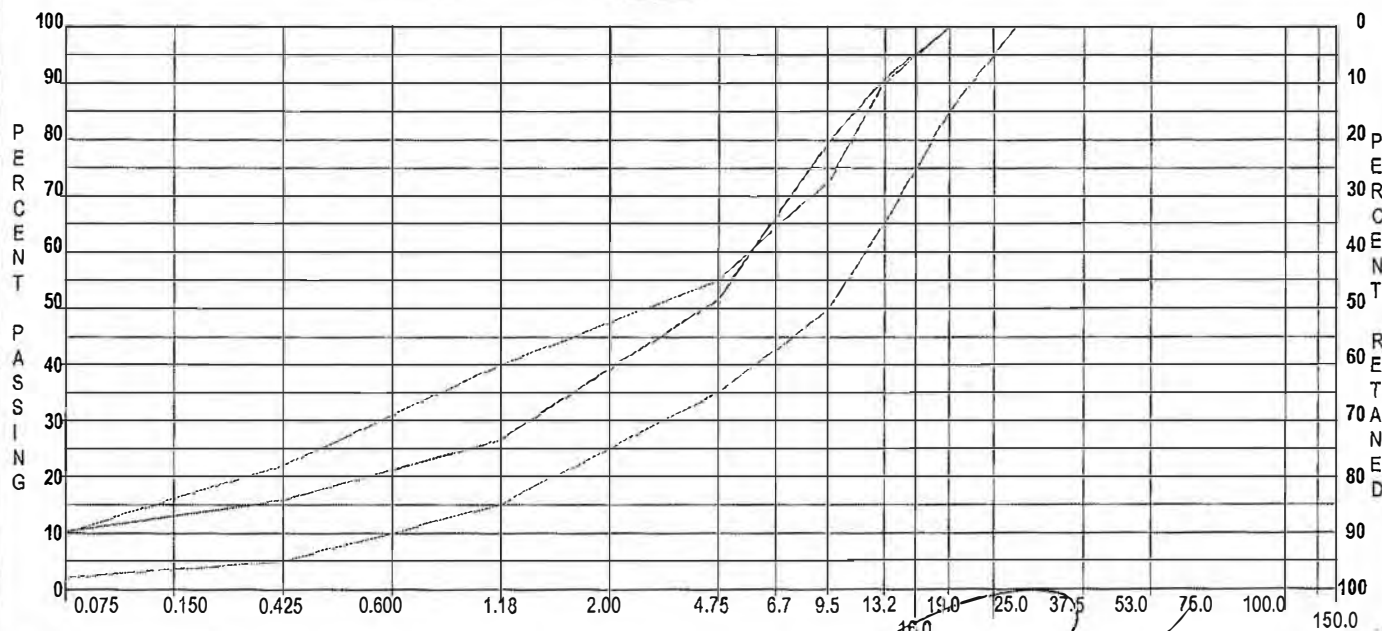
TEST	Sample	Specs
Wash Pass 0.075 mm:		
FINENESS MODULUS	2.26	

Comments: Moisture Content is 1.8%

Grain Size Analysis		
Sieve Sizes (mm)	Percent Passing	
	Sample	Specification
150.0		-
100.0		-
75.0		-
53.0		-
50.0		-
37.5		-
26.5	100	100 - 100
25.0		-
19.0	100	85 - 100
16.0		-
13.2	90.8*	65 - 90
9.5	79.8*	50 - 73
6.7		-
4.75	51.6	35 - 55
2.36		-
2.00		-
1.18	26.6	15 - 40
0.600		-
0.425		-
0.300	15.8	5 - 22
0.150		-
0.075	10.3*	2 - 10

* Indicates Out of Specification

Sample: Specs:



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Project Manager: Mark McClelland, C.E.T

Infrastructure





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SNC-Lavalin GEM Ontario Inc.

1164 Clyde Court

Kingston, Ontario K7P 2E4

(613) 389-1781 (613) 389-4204

Grain Size Analysis Test Report

Project No.: 20-1690-01 Project Description: Lab Testing

Date: Jun 11, 2020

Project Location:

Contract No.:

SAMPLE DATA

Material: Granular
Date Sampled: Jun 05, 2020
Time Sampled:
Sample Type: Borehole
Sample Location: JC024, BH#18, 0.2-0.75M 20553-1 Ferguson Lake Road
Lot: Sublot:
Source: Ainley
Sampled By: Client

LAB DATA

Lab No.: 19955-D Date Tested: Jun 09, 2020

Specification: OPSS1010, Granular B Type I

PARTICLE ANALYSIS

TEST	Sample	Specification
Percent Crushed:		
% Asphalt Coated:		30
% Flat and Elongated		

WASH PASS 0.075mm

TEST	Sample	Specs
Wash Pass 0.075 mm:		
FINENESS MODULUS		1.75

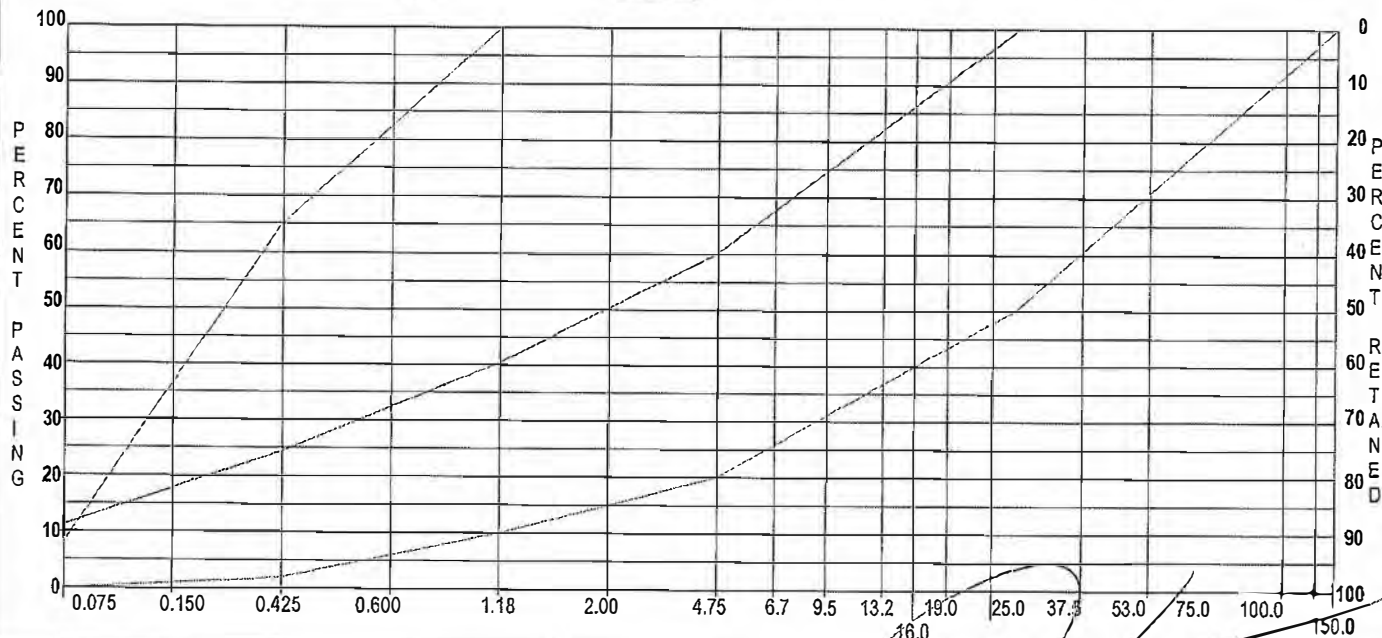
Grain Size Analysis

Sieve Sizes (mm)	Percent Passing	
	Sample	Specification
150.0	100	100 - 100
100.0		-
75.0		-
53.0		-
50.0		-
37.5		-
26.5	100	50 - 100
25.0		-
19.0		-
16.0		-
13.2		-
9.5		-
6.7		-
4.75	60.1	20 - 100
2.36		-
2.00		-
1.18	40.4	10 - 100
0.600		-
0.425		-
0.300	24.4	2 - 65
0.150		-
0.075	11.2*	0 - 8

* Indicates Out of Specification

Comments: Moisture Content is 3.8%

Sample: _____ Specs: _____



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Project Manager: Mark McClelland, C.E.T

Infrastructure





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SNC-Lavalin GEM Ontario Inc.

1164 Clyde Court

Kingston, Ontario K7P 2E4

(613) 389-1781 (613) 389-4204

Grain Size Analysis Test Report

Project No.: 20-1690-01 Project Description: Lab Testing

Date: Jun 11, 2020

Project Location:

Contract No.:

SAMPLE DATA

Material: Soil
Date Sampled: Jun 05, 2020
Time Sampled:
Sample Type: Borehole
Sample Location: JC026 BH#20 0.47-1.0M 20553-1 Ferguson Lake Road
Lot: Sublot:
Source: Ainley
Sampled By: Client

LAB DATA

Lab No.: 19955-E Date Tested: Jun 05, 2020

Specification:

PARTICLE ANALYSIS

TEST	Sample	Specification
Percent Crushed:		
% Asphalt Coated:		
% Flat and Elongated		

WASH PASS 0.075mm

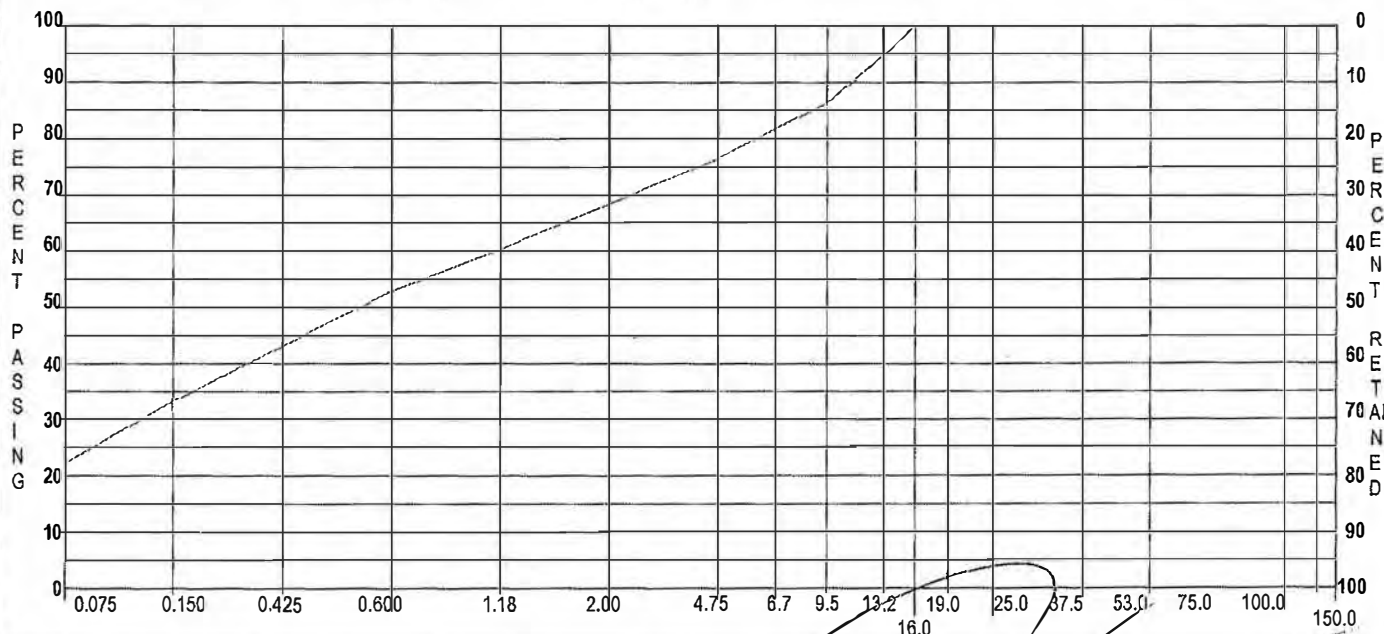
TEST	Sample	Specs
Wash Pass 0.075 mm:		
FINENESS MODULUS	2.48	

Comments: Moisture Content is 8.4%

Grain Size Analysis		
Sieve Sizes (mm)	Percent Passing	
	Sample	Specification
150.0		
100.0		
75.0		
53.0		
50.0		
37.5		
26.5		
25.0		
19.0		
16.0	100	
13.2	94.8	
9.5	86.6	
6.7		
4.75	76.5	
2.36	67.6	
2.00		
1.18	60.3	
0.600	52.8	
0.425		
0.300	43.2	
0.150	33.1	
0.075	22.1	

* Indicates Out of Specification

Sample: Specs:



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Project Manager: Mark McClelland, C.E.T

Infrastructure





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1164 Clyde Court

Kingston, Ontario K7P 2E4

(613) 389-1781 (613) 389-4204

Grain Size Analysis Test Report

Project No.: 20-1690-01 Project Description: Lab Testing

Date: Jun 11, 2020

Project Location:

Contract No.:

SAMPLE DATA

Material: Subsoil
Date Sampled: Jun 05, 2020
Time Sampled:
Sample Type: Borehole
Sample Location: JC029, BH#22, 0.45-1.5M 20553-1 Ferguson Lake Road
Lot: Sublot:
Source: Ainley
Sampled By: Client

LAB DATA

Lab No.: 19955-F Date Tested: Jun 05, 2020

Specification:

PARTICLE ANALYSIS

TEST	Sample	Specification
Percent Crushed:		
% Asphalt Coated:		
% Flat and Elongated		

WASH PASS 0.075mm

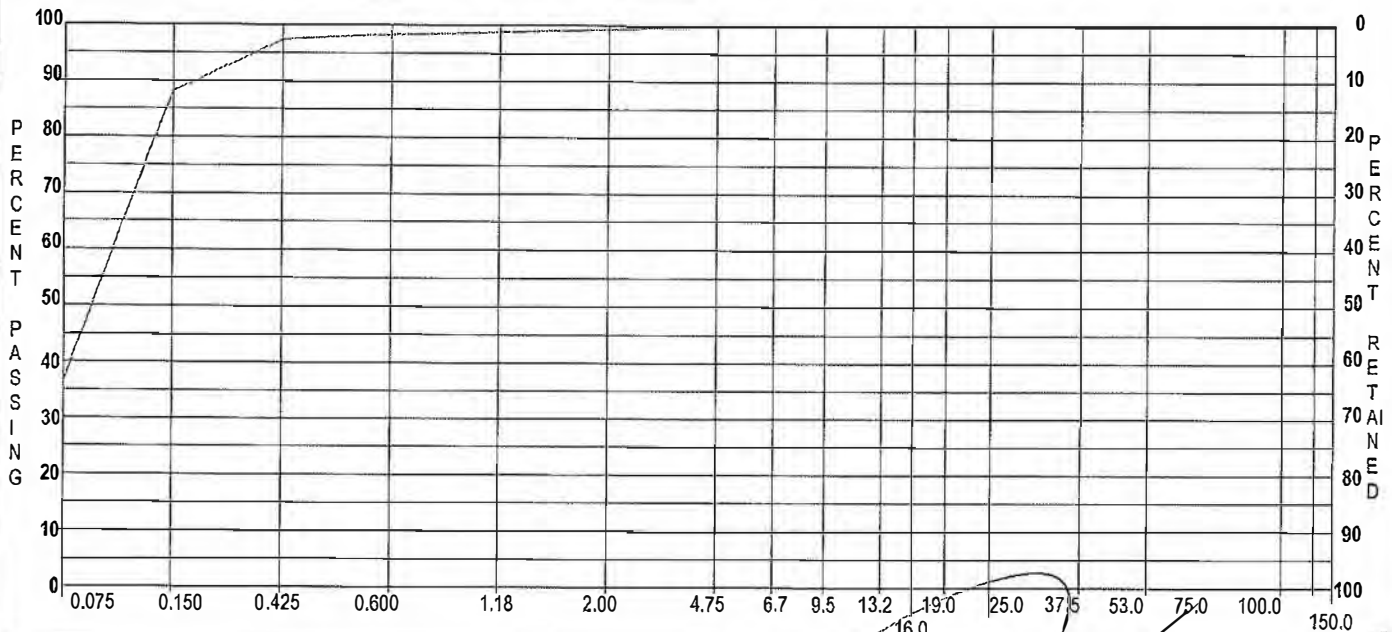
TEST	Sample	Specs
Wash Pass 0.075 mm:		
FINENESS MODULUS	0.18	

Grain Size Analysis		
Sieve Sizes (mm)	Percent Passing	
	Sample	Specification
150.0		
100.0		
75.0		
53.0		
50.0		
37.5		
26.5		
25.0		
19.0		
16.0		
13.2		
9.5		
6.7	100	
4.75	99.7	
2.36	99.2	
2.00		
1.18	98.8	
0.600	98.3	
0.425		
0.300	97.3	
0.150	88	
0.075	36.5	

* Indicates Out of Specification

Comments: Moisture Content is 7.8%

Sample: _____ Specs: _____



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Project Manager: Mark McClelland, C.E.T.

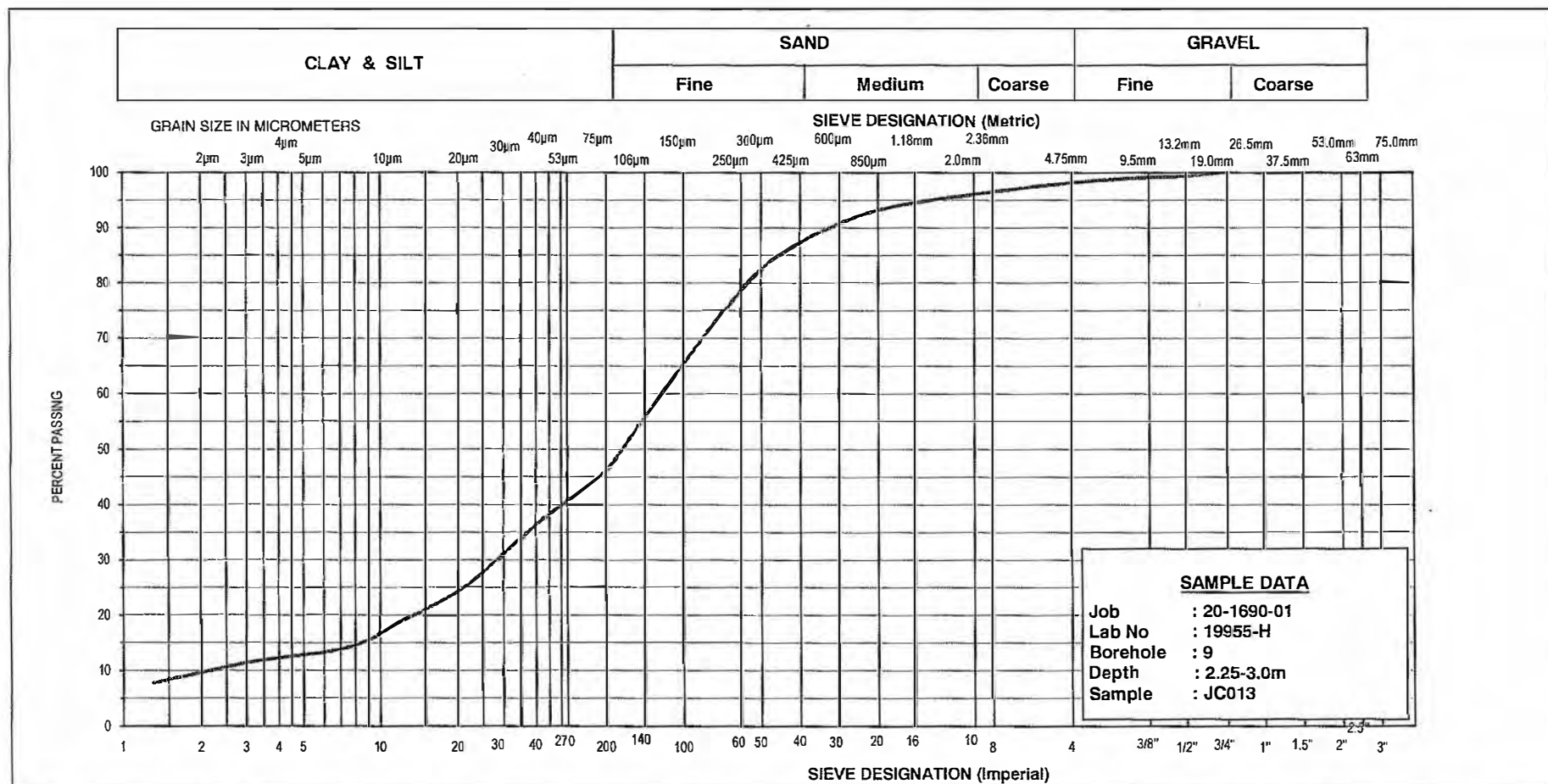
Infrastructure





SNC-LAVALIN 1164 Clyde Court Kingston, Ontario K7P 2E4	GRAIN SIZE DISTRIBUTION	Client: Ainley Project: 20-1690-01	
	SAND SILT Trace Clay, Trace Gravel	20553-1 Ferguson Lake Road Date: June 5, 2020	
		Moisture Content is 23.3%	

UNIFIED SOIL CLASSIFICATION SYSTEM



% +3"	% Gravel		% Sand			% Fines	
	Course	Fine	Course	Medium	Fine	Silt	Clay
	0	2	2	9	41	36	10

SNC-LAVALIN 1164 Clyde Court Kingston, Ontario K7P 2E4	GRAIN SIZE DISTRIBUTION		Client: Ainley	
			Project: 20-1690-01	
	SILTY SAND		20553-1 Ferguson Lake Road	
	Trace Clay, Trace Gravel		Date: June 5, 2020	Moisture Content is 19.9%



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1164 Clyde Court

Kingston, Ontario K7P 2E4

(613) 389-1781 (613) 389-4204

Grain Size Analysis Test Report

Project No.: 20-1690-01 Project Description: Lab Testing

Date: Jun 11, 2020

Project Location:

Contract No.:

SAMPLE DATA

Material: Subsoil
Date Sampled: Jun 05, 2020
Time Sampled:
Sample Type: Borehole
Sample Location: JC012, BH#8, 0.8-1.5M 20553-1 Ferguson Lake Road
Lot: Sublot:
Source: Ainley
Sampled By: Client

LAB DATA

Lab No.: 19955-1 Date Tested: Jun 06, 2020

Specification:

PARTICLE ANALYSIS

TEST	Sample	Specification
Percent Crushed:		
% Asphalt Coated:		
% Flat and Elongated		

WASH PASS 0.075mm

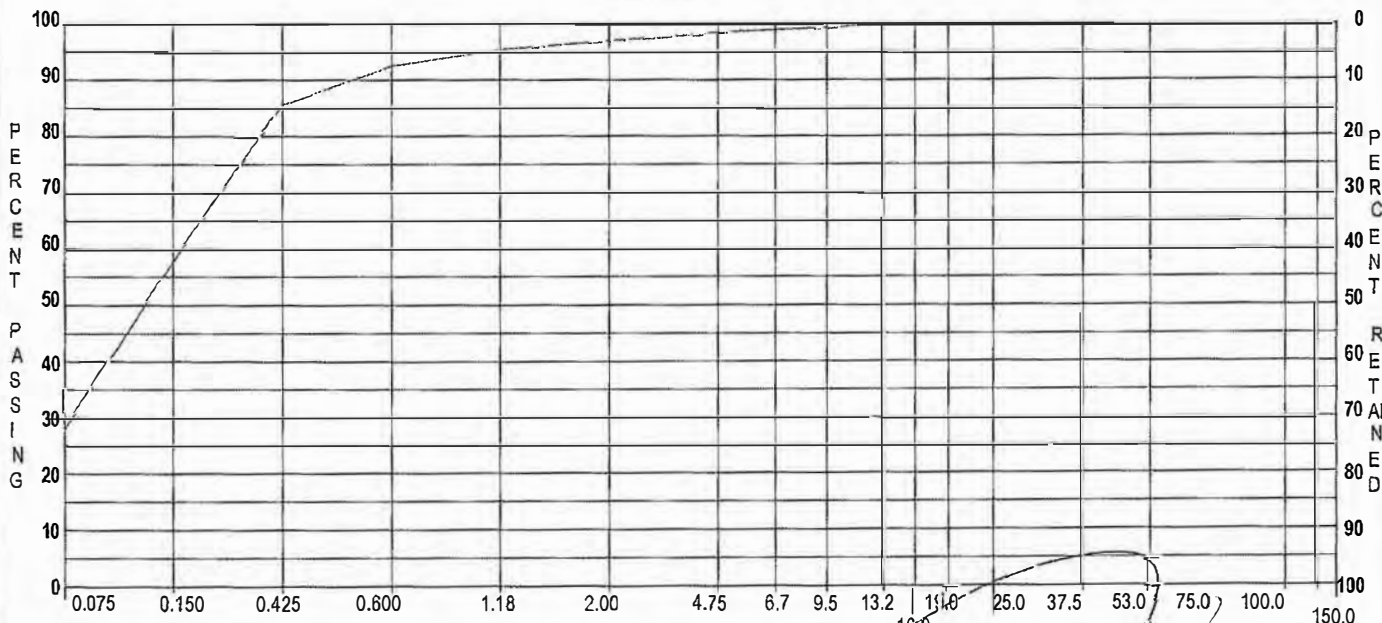
TEST	Sample	Specs
Wash Pass 0.075 mm:		
FINENESS MODULUS	0.71	

Comments: Moisture Content is 7.3%

Grain Size Analysis		
Sieve Sizes (mm)	Percent Passing	
	Sample	Specification
150.0		
100.0		
75.0		
53.0		
50.0		
37.5		
26.5		
25.0		
19.0		
16.0		
13.2	100	
9.5	99.3	
6.7		
4.75	98.5	
2.36	97.2	
2.00		
1.18	95.4	
0.600	92.5	
0.425		
0.300	85.5	
0.150	57.6	
0.075	27.9	

* Indicates Out of Specification

Sample: Specs:



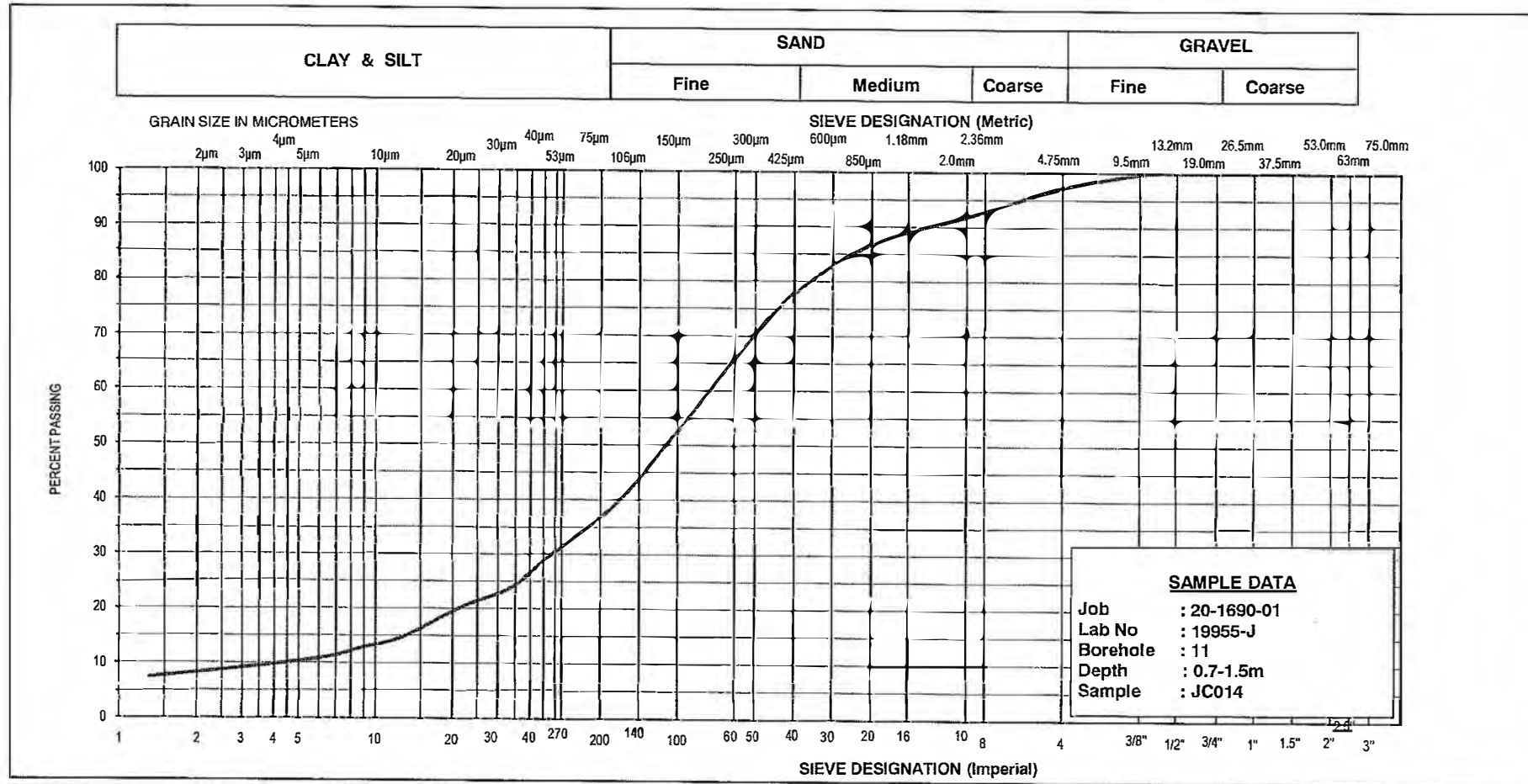
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Project Manager: Mark McClelland, C.E.T.

Infrastructure



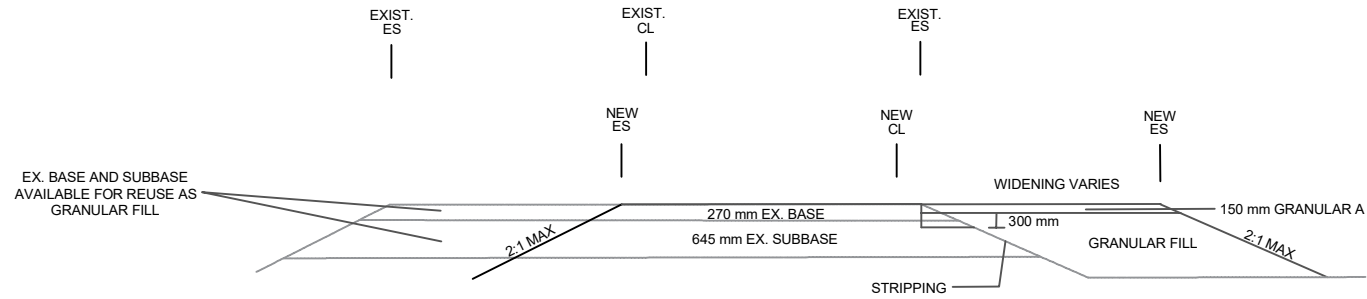
UNIFIED SOIL CLASSIFICATION SYSTEM



% +3"	% Gravel		% Sand			% Fines	
	Course	Fine	Course	Medium	Fine	Silt	Clay
	0	3	5	14	41	29	8

SNC-LAVALIN 1164 Clyde Court Kingston, Ontario K7P 2E4	GRAIN SIZE DISTRIBUTION		Client: Ainley	
			Project: 20-1690-01	
	SAND		20553-1 Ferguson Lake Road	
	With Silt, Trace Clay,Trace Gravel		Date: June 5,2020	Moisture Content is 11.2%

Appendix III – Typical Fill Section – Grading



TYPICAL FILL SECTION - GRADING

**CULTURAL HERITAGE RESOURCE ASSESSMENT:
BUILT HERITAGE RESOURCES AND CULTURAL HERITAGE LANDSCAPES
EXISTING CONDITIONS AND PRELIMINARY IMPACT ASSESSMENT REPORT**

**FERGUSON LAKE ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT**

**TOWNSHIP OF GREATER MADAWASKA
COUNTY OF RENFREW, ONTARIO**

DRAFT REPORT

Prepared for:

Greenview Environmental Management
13 Commerce Court
Bancroft, ON K0L 1C0

ASI File: 20CH-009

August 2020



**CULTURAL HERITAGE RESOURCE ASSESSMENT:
BUILT HERITAGE RESOURCES AND CULTURAL HERITAGE LANDSCAPES
EXISTING CONDITIONS AND PRELIMINARY IMPACT ASSESSMENT REPORT
FERGUSON LAKE ROAD
MUNICIPAL CLASS ENVIRONMENTAL ASSESSMENT
TOWNSHIP OF GREATER MADAWASKA
COUNTY OF RENFREW, ONTARIO**

EXECUTIVE SUMMARY

ASI was contracted by Greenview Environmental Management, on behalf of the Township of Greater Madawaska, to conduct a Cultural Heritage Resource Assessment as part of the Reconstruction of Ferguson Lake Road Municipal Class Environmental Assessment (Ferguson Lake Road). The project involves the realignment of Ferguson Lake Road from south of Campground Sideroad to Kennelly Mountain Road. The Ferguson Lake Road study area consists of Ferguson Lake Road and a buffer that encapsulates a 25 metre buffer around all potential alternatives.

The results of background historical research and a review of secondary source material, including historical mapping, indicate a study area with a rural land use history dating back to the mid-nineteenth century. A review of federal, provincial, and municipal registers, inventories, and databases revealed that there are no previously identified features of cultural heritage value within the Ferguson Lake Road study area. One additional feature was identified during the fieldwork.

Based on the results of the assessment, the following recommendations have been developed:

1. Construction activities and staging should be suitably planned and undertaken to avoid impacts to identified cultural heritage resources.
2. Once a preferred alternative or detailed designs of the proposed work are available, this report will be updated with a confirmation of impacts of the undertaking on the cultural heritage resources identified within and/or adjacent to the study area and will recommend appropriate mitigation measures. Mitigation measures may include, but are not limited to, completing a property-specific heritage impact assessment or documentation report, or employing suitable measures such as landscaping, buffering or other forms of mitigation, where appropriate. In this regard, provincial guidelines should be consulted for advice and further heritage assessment work should be undertaken as necessary.



3. Should future work require an expansion of the study area then a qualified heritage consultant should be contacted in order to confirm the impacts of the proposed work on potential heritage resources.



PROJECT PERSONNEL

<i>Senior Project Manager:</i>	Annie Veilleux, MA, CAHP Senior Cultural Heritage Specialist Manager - Cultural Heritage Division
<i>Project Coordinator:</i>	Katrina Thatch, Hon. BA Archaeologist Project Coordinator - Environmental Assessment Division
<i>Project Manager:</i>	Johanna Kelly, MSc Cultural Heritage Associate Project Manager - Cultural Heritage Division
<i>Field Review:</i>	Johanna Kelly
<i>Report Production:</i>	Laura Wickett, BA (Hon), Dip. Heritage Conservation Cultural Heritage Assistant - Cultural Heritage Division Johanna Kelly
<i>Graphics Production:</i>	Jonas Fernandez, MSc Manager, Geomatics - Operations Division Andrew Clish, BES Senior Archaeologist - Planning Assessment Division
<i>Report Reviewer(s):</i>	Kirstyn Allam, BA (Hon), Advanced Diploma in Applied Museum Studies Cultural Heritage Assistant - Cultural Heritage Division Lindsay Graves, MA, CAHP Senior Cultural Heritage Specialist - Cultural Heritage Division



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1.0 INTRODUCTION

ASI was contracted by Greenview Environmental Management, on behalf of the Township of Greater Madawaska, to conduct a Cultural Heritage Resource Assessment as part of the Reconstruction of Ferguson Lake Road Municipal Class Environmental Assessment (Ferguson Lake Road). The project involves the realignment of Ferguson Lake Road from south of Campground Sideroad to Kennelly Mountain Road. The Ferguson Lake Road study area consists of Ferguson Lake Road and a buffer that encapsulates a 25 metre buffer around all potential alternatives (Figure 1).

The purpose of this report is to describe the existing conditions of the study area and adjacent properties and present a built heritage and cultural landscape inventory of cultural heritage resources. Once a preferred alternative is selected, this report will be updated to include proposed appropriate mitigation measures and recommendations for minimizing and avoiding negative impacts on identified cultural heritage resources. This research was conducted by Laura Wickett, Cultural Heritage Assistant, and Johanna Kelly, Cultural Heritage Associate, under the senior project management of Annie Veilleux, Senior Cultural Heritage Specialist, all of ASI.



Figure 1: Location of the study area

Base Map: ©OpenStreetMap and contributors, Creative Commons-Share Alike License (CC-BY-SA)



2.0 BUILT HERITAGE RESOURCE AND CULTURAL HERITAGE LANDSCAPE ASSESSMENT CONTEXT

2.1 Legislation and Policy Context

The analysis throughout the study process addresses cultural heritage resources under various pieces of legislation and their supporting guidelines. This cultural heritage assessment considers cultural heritage resources in the context of improvements to specific areas, pursuant to the *Environmental Assessment Act* (EAA). The EAA (1990) provides for the protection, conservation and management of Ontario's environment. Under the EAA, "environment" is defined in Subsection 1(c) to include:

- cultural conditions that influence the life of man or a community, and;
- any building, structure, machine, or other device or thing made by man.

The *Ontario Heritage Act* (OHA) (Ministry of Culture 1990; now administered by the Ministry of Heritage, Sport, Tourism and Culture Industries) gives the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) the responsibility for the conservation, protection, and preservation of Ontario's cultural heritage resources. The MHSTCI is charged under Section 2.0 of the OHA with the responsibility to determine policies, priorities, and programs for the conservation, protection, and preservation of the heritage of Ontario and has published two guidelines to assist in assessing cultural heritage resources as part of an environmental assessment: *Guideline for Preparing the Cultural Heritage Resource Component of Environmental Assessments* (Ministry of Culture and Communications 1992; now administered by the Ministry of Heritage, Sport, Tourism and Culture Industries), and *Guidelines on the Man-Made Heritage Component of Environmental Assessments* (Ministry of Culture and Recreation 1980; now administered by the Ministry of Heritage, Sport, Tourism and Culture Industries). Accordingly, both guidelines have been utilized in this assessment process.

The *Guidelines on the Man-Made Heritage Component of Environmental Assessments* (Section 1.0) states the following:

When speaking of man-made heritage, we are concerned with the works of man and the effects of his activities in the environment rather than with movable human artifacts or those environments that are natural and completely undisturbed by man.

In addition, environment may be interpreted to include the combination and interrelationships of human artifacts with all other aspects of the physical environment, as well as with the social, economic, and cultural conditions that influence the life of the people and communities in Ontario. The *Guidelines on the Man-Made Heritage Component of Environmental Assessments* distinguish between two basic ways of visually experiencing this heritage in the environment, namely as cultural heritage landscapes and as cultural features.

The Ministry of Tourism and Culture also published *Standards and Guidelines for Conservation of Provincial Heritage Properties* (2010; now administered by the Ministry of Heritage, Sport, Tourism and Culture Industries) (hereinafter "*Standards and Guidelines*"). These *Standards and Guidelines* apply to properties the Government of Ontario owns or controls that have cultural heritage value or interest. The *Standards and Guidelines* provide a series of guidelines that apply to provincial heritage properties in the areas of identification and evaluation; protection; maintenance; use; and disposal. For the purpose



of this CHRA, the *Standards and Guidelines* provide points of reference to aid in determining heritage significance in the evaluation of these properties.

Similarly, the *Ontario Heritage Toolkit* (Ministry of Culture 2006a; now administered by the Ministry of Heritage, Sport, Tourism and Culture Industries) provides a guide to evaluate heritage properties. To conserve a cultural heritage resource, the Ontario Heritage Toolkit states that a municipality or approval authority may require a heritage impact assessment and/or a conservation plan to guide the approval, modification, or denial of a proposed development.

Additionally, the *Planning Act* (1990) and related *Provincial Policy Statement (PPS)* (2020), make a number of provisions relating to heritage conservation. One of the general purposes of the *Planning Act* is to integrate matters of provincial interest in provincial and municipal planning decisions. In order to inform all those involved in planning activities of the scope of these matters of provincial interest, Section 2 of the *Planning Act* provides an extensive listing. These matters of provincial interest shall be regarded when certain authorities, including the council of a municipality, carry out their responsibilities under the *Act*. One of these provincial interests is directly concerned with:

- 2.(d) the conservation of features of significant architectural, cultural, historical, archaeological or scientific interest

Part 4.7 of the *PPS* states that:

The official plan is the most important vehicle for implementation of this Provincial Policy Statement. Comprehensive, integrated and long-term planning is best achieved through official plans.

Official plans shall identify provincial interests and set out appropriate land use designations and policies. To determine the significance of some natural heritage features and other resources, evaluation may be required.

Those policies of relevance for the conservation of heritage features are contained in Section 2- Wise Use and Management of Resources, wherein Subsection 2.6 - Cultural Heritage and Archaeological Resources, makes the following provisions:

- 2.6.1 Significant built heritage resources and significant cultural heritage landscapes shall be conserved.

In addition, significance is also more generally defined. It is assigned a specific meaning according to the subject matter or policy context, such as wetlands or ecologically important areas. With regard to cultural heritage and archaeology resources, resources of significance are those that are valued for the important contribution they make to our understanding of the history of a place, an event, or a people (Government of Ontario 2020).

Criteria for determining significance for the resources are recommended by the Province, but municipal approaches that achieve or exceed the same objective may also be used. While some significant resources may already be identified and inventoried by official sources, the significance of others can only be determined after evaluation (Government of Ontario 2020).



Accordingly, the foregoing guidelines and relevant policy statement were used to guide the scope and methodology of the cultural heritage assessment.

2.2 Municipal Heritage Policies

The study area is located within the Township of Greater Madawaska in the County of Renfrew. Policies relating to cultural heritage resources were reviewed from the following sources:

- County of Renfrew Official Plan (County of Renfrew 2019)

3.0 ASSESSMENT METHODOLOGY

This cultural heritage assessment considers cultural heritage resources in the context of improvements to specified areas, pursuant to the EAA. This assessment addresses above-ground cultural heritage resources over 40 years old. Use of a 40-year-old threshold is a guiding principle when conducting a preliminary identification of cultural heritage resources. While identification of a resource that is 40 years old or older does not confer outright heritage significance, this threshold provides a means to collect information about resources that may retain heritage value. Similarly, if a resource is slightly younger than 40 years old, this does not preclude the resource from retaining heritage value (Ministry of Heritage, Tourism and Sport 2016, now administered by the Ministry of Heritage, Sport, Tourism and Culture Industries).

For the purposes of this assessment, the term ‘cultural heritage resources’ is used to describe both cultural heritage landscapes and built heritage resources.

A built heritage resource is defined as the following (MTC 2010:25):

...a building, structure, monument, installation or any manufactured remnant that contributes to a property’s cultural heritage value or interest as identified by a community, including an Aboriginal community”

A cultural heritage landscape is defined as the following (MTC 2010:25):

...a defined geographical area that human activity has modified and that has cultural heritage value. Such an area involves one or more groupings of individual heritage features, such as structures, spaces, archaeological sites, and natural elements, which together form a significant type of heritage form distinct from that of its constituent elements or parts. Heritage conservation districts designated under the Ontario Heritage Act, villages, parks, gardens, battlefields, mainstreets and neighbourhoods, cemeteries, trails, and industrial complexes of cultural heritage value are some examples.



3.1 Data Collection

In the course of the cultural heritage assessment, all potentially affected cultural heritage resources are subject to inventory. Generally, when conducting an identification of cultural heritage resources within a study area, three stages of research and data collection are undertaken to appropriately establish the potential for and existence of cultural heritage resources in a geographic area; background research, field review, and identification.

Background historical research, which includes consultation of primary and secondary source research and historical mapping, is undertaken to identify early settlement patterns and broad agents or themes of change in a study area. This stage in the data collection process enables the researcher to determine the presence of sensitive heritage areas that correspond to nineteenth and twentieth-century settlement and development patterns. To augment data collected during this stage of the research process, federal, provincial, and municipal databases and/or agencies are consulted to obtain information about specific properties that have been previously identified and/or designated as retaining cultural heritage value. Typically, resources identified during these stages of the research process are reflective of particular architectural styles, associated with an important person, place, or event, and contribute to the contextual facets of a particular place, neighbourhood, or intersection.

A field review is then undertaken to confirm the location and condition of previously identified cultural heritage resources. The field review is also used to identify cultural heritage resources that have not been previously identified on federal, provincial, or municipal databases.

Several investigative criteria are utilized during the field review to appropriately identify new cultural heritage resources. These investigative criteria are derived from provincial guidelines, definitions, and experience. During the environmental assessment, a built structure or landscape is identified as a cultural heritage resource if it is 40 years or older, and if the resource has potential to meet at least one of the following criteria:

Design/Physical Value:

- It is a rare, unique, representative or early example of a style, type, expression, material or construction method.
- It displays a high degree of craftsmanship or artistic merit.
- It demonstrates a high degree of technical or scientific achievement.
- The site and/or structure retains original stylistic features and has not been irreversibly altered so as to destroy its integrity.
- It demonstrates a high degree of excellence or creative, technical or scientific achievement at a provincial level in a given period.

Historical/Associative Value:

- It has a direct association with a theme, event, belief, person, activity, organization, or institution that is significant to: the Township of Greater Madawaska; the Province of Ontario; or Canada.



- It yields, or has the potential to yield, information that contributes to an understanding of the history of: the Township of Greater Madawaska; the Province of Ontario; or Canada.
- It demonstrates or reflects the work or ideas of an architect, artist builder, designer, or theorist who is significant to: the Township of Greater Madawaska; the Province of Ontario; or Canada.
- It represents or demonstrates a theme or pattern in Ontario's history.
- It demonstrates an uncommon, rare or unique aspect of Ontario's cultural heritage.
- It has a strong or special association with the entire province or with a community that is found in more than one part of the province. The association exists for historic, social, or cultural reasons or because of traditional use.
- It has a strong or special association with the life or work of a person, group or organization of importance to the province or with an event of importance to the province.

Contextual Value:

- It is important in defining, maintaining, or supporting the character of an area.
- It is physically, functionally, visually, or historically linked to its surroundings.
- It is a landmark.
- It illustrates a significant phase in the development of the community or a major change or turning point in the community's history.
- The landscape contains a structure other than a building (fencing, culvert, public art, statue, etc.) that is associated with the history or daily life of that area or region.
- There is evidence of previous historic and/or existing agricultural practices (e.g. terracing, deforestation, complex water canalization, apple orchards, vineyards, etc.)
- It is of aesthetic, visual or contextual important to the province.

If a property within or adjacent to the study area meets one of these criteria it will be identified as a potential cultural heritage resource in this report and is subject to further research where appropriate and when feasible. Typically, detailed archival research, permission to enter lands containing potential heritage resources, and further consultation is required to determine the specific heritage significance of the identified potential cultural heritage resource. The detailed research and analysis required to conduct a heritage evaluation under O. Reg 9/06 is considered beyond the scope of this CHRA. Instead, a preliminary evaluation and justification for inclusion as potential cultural heritage resources based on the criteria above is employed and is presented in this report.

Additional properties within the project study area were encountered and observed during field review, however, they were screened out as potential cultural heritage resources because they were not considered to be 40 years or older, and were not determined to satisfy at least one of the criteria identified above.

For the purpose of this CHRA, the following summarizes the tasks that were undertaken:

- The identification of major historical themes and activities within the study area through background research and review of available historical mapping (Section 4.0);
- A review to identify properties within and/or adjacent to the study area that have been listed on a municipal heritage register or inventory; designated under Part IV or V of the OHA; or included on a federal inventory (Section 5.1);



- Consultation with municipal and/or regional heritage staff, and members of the community as appropriate, with knowledge regarding the community in general or potential cultural heritage resources (Section 5.2);
- A field review to confirm the location and condition of previously identified cultural heritage resources and to identify any new potential cultural heritage resources (Section 5.4);
- Mapping of all cultural heritage resource locations (Section 11.0); and,
- Preparation of the Cultural Heritage Resource Assessment report.

4.0 SUMMARY OF HISTORICAL DEVELOPMENT WITHIN THE STUDY AREA

This section provides a brief summary of historical research and a description of identified above-ground cultural heritage resources that may be affected by the proposed undertaking.

A review of available primary and secondary source material was undertaken to produce a contextual overview of the study area, including a general description of physiography, Indigenous land use, and Euro-Canadian settlement.

4.1 Physiography

The study area is located within the spillways and the shallow till and rock ridges of the Algonquin Highlands physiographic region of southern Ontario (Chapman and Putnam 1984). The Algonquin Highlands region is underlain by granite and other hard Precambrian rocks and covers approximately 4,020 hectares of land (Chapman and Putnam 1984). This region is broadly dome shaped, with the crown standing at 488-549 metres above sea level and sloping down to approximately 274 metres in the west and approximately 183 metres in the east. The local relief is rough and includes rounded knobs and ridges. There are frequent outcrops of bare rock, but they do not amount to more than 5% of the total surface area. The soils in this region are generally shallow but thickness over the bedrock can vary greatly over short distances.

Spillways are the former glacial meltwater channels. They are often found in association with moraines but in opposition are entrenched rather than elevated landforms. They are often though not always occupied by stream courses, the fact of which raises the debate of their glacial origin. Spillways are typically broad troughs floored wholly or in part by gravel beds and are typically vegetated by cedar swamps in the lowest beds.

The study area includes Constant Creek, a tributary of Calabogie Lake which is part of the Madawaska River system. The Madawaska River drains an area of 854,696 hectares and is 322 kilometres long from its source to its confluence with the Ottawa River (Chapman and Putnam 1984). The Madawaska River system was historically an alternate route to Lake Huron (Allen 2002).



4.2 Indigenous Land Use and Settlement

Southern Ontario has a cultural history that begins approximately 11,000 years ago. The land now encompassed by the Township of Greater Madawaska has a cultural history which begins approximately 10,000 years ago and continues to the present. Table 1 provides a general summary of the history of Indigenous land use and settlement of the area.¹

Table 1: Outline of Southern Ontario Indigenous History and Lifeways

Period	Archaeological/Material Culture	Date Range	Lifeways/Attributes
PALEO-INDIAN PERIOD			
Early	Gaine, Barnes, Crowfield	9000-8500 BCE	Big game hunters
Late	Holcombe, Hi-Lo, lanceolate	8500-7500 BCE	Small nomadic groups
ARCHAIC			
Early	Nettling, Bifurcate-base	7800-6000 BCE	Nomadic hunters and gatherers
Middle	Kirk, Stanley, Brewerton, Laurentian	6000-2000 BCE	Transition to territorial settlements
Late	Lamoka, Genesee, Crawford Knoll, Innes	2500-500 BCE	Polished/ground stone tools (small stemmed)
WOODLAND PERIOD			
Early	Meadowood	800-400 BCE	Introduction of pottery
Middle	Point Peninsula, Saugeen	400 BCE-CE 800	Incipient horticulture
Late	Algonkian, Iroquoian	CE 800-1300	Transition to village life and agriculture
	Algonkian, Iroquoian	CE 1300-1400	Establishment of large palisaded villages
	Algonkian, Iroquoian	CE 1400-1600	Tribal differentiation and warfare
POST-CONTACT PERIOD			
Early	Huron, Neutral, Petun, Odawa, Ojibwa	CE 1600-1650	Tribal displacements
Late	Six Nations Iroquois, Ojibwa	CE 1650-1800s	European settlement
	Euro-Canadian	CE 1800-present	

The study area is within the Rideau Purchase, or Treaty #27½ of the Upper Canada Land Surrenders.

Treaty #27½ was negotiated in May of 1819 by John Ferguson representing the Crown with representatives of a Mississauga band living in the Bay of Quinte area for land to be surveyed into Torbolton, Fitzroy, Huntley, March and Goulbourn Townships. By signing, the Mississauga ceded part of the Madawaska and Mississippi Rivers watersheds, “despite abundant proof that the Algonquins and the Nipissings, from time immemorial, have considered this part of the country as their exclusive hunting grounds” (St. Louis 1951; Huitema n.d.:10–11). The Algonquin challenged the treaty in 1836 however no action was taken to recognize the treaty lands as within their traditional territory, and the government of Upper Canada and the Crown chose to recognize the Mississauga’s claims within Algonquin

¹ While many types of information can inform the precontact settlement of the Township of Greater Madawaska, this summary table provides information drawn from archaeological research conducted in southern Ontario over the last century. As such, the terminology used in this review related to standard archaeological terminology for the province rather than relating to specific historical events within the region. The chronological ordering of this summary is made with respect to two temporal referents: BCE – before Common Era and CE – Common Era.



traditional territory (ASI and Geomatics International Inc. 1999; Indigenous and Northern Affairs Canada; Hessel 1987:67; Walker and Walker 1968:7; Huitema n.d.).

This area, including the study area, is within the current Algonquins of Ontario (AOO) land claim for their unceded traditional territory. In 2016, an agreement in principle was ratified, including a transfer of \$300-million to the AOO and approximately 48,000 hectares to Algonquin ownership. The Algonquin claim is one of the largest in Canadian history (Algonquins of Ontario 2013a; Algonquins of Ontario 2013b).

4.3 Historical Euro-Canadian Township Survey and Settlement

Historically, the study area is located in the former Townships of Brougham and Blythfield, County of Renfrew, in parts of Lots 26-30, Concession 4, Blythfield Township and parts of Lot 1, Concession 10, Lots 1 and 2, Concession 11, Lots 3 and 4, Concession 12, and Lot 4, Concession 13, Brougham Township.

4.3.1 Township of Brougham

The Township of Brougham was established in 1851 and was named after Lord Brougham and Vaux, Lord Chancellor of England. Early settlers in Brougham were mostly Irish immigrants. They included the Scully, Hunt, Sheedy, Lane, Kennelly and Ryan families, who settled near Mount St. Patrick, where the earliest store, post office, church, school and blacksmith shop were established. Little remains today of Mount St. Patrick. At one time Brougham had three mines producing black lead, molybdenum and iron ore. There was an abundance of hardwood and potasheries which provided much of the income of the early pioneers until sufficient farmland could be cleared (Mika and Mika 1977).

In 2001, the Township of Brougham was amalgamated with the Townships of Bagot, Blythfield, Griffith and Matawatchan to form the Township of Greater Madawaska.

4.3.2 Township of Blythfield

The Township of Blythfield was established in 1843 and was named after the English home of Sir Charles Bagot, the Governor-General of British North America at the time. The earliest settlers were likely lumbermen who conducted lumber down the Madawaska River to the Ottawa River in the 1800s. Barrett Chute, located at the south end of Calabogie Lake, was one of the overnight stops on the lumber drives and developed as the only community in the township (Mika and Mika 1977).

In 2001, the Township of Blythfield was amalgamated with the Townships of Brougham, Bagot, Griffith and Matawatchan to form the Township of Greater Madawaska.

4.4 Review of Historical Mapping

The 1863 *Map of the Counties of Lanark and Renfrew* (Walling 1863) was examined to determine the presence of historical features within the study area during the nineteenth century (Figure 2)



It should be noted, however, that not all features of interest were mapped systematically in the Ontario series of historical atlases. For instance, they were often financed by subscription limiting the level of detail provided on the maps. Moreover, not every feature of interest would have been within the scope of the atlases. The use of historical map sources to reconstruct or predict the location of former features within the modern landscape generally begins by using common reference points between the various sources. The historical maps are geo-referenced to provide the most accurate determination of the location of any property on a modern map. The results of this exercise can often be imprecise or even contradictory, as there are numerous potential sources of error inherent in such a process, including differences of scale and resolution, and distortions introduced by reproduction of the sources.

The 1863 map is in poor condition. By this time, Kennelly Mountain Road is shown to be a historically surveyed road, while Ferguson Lake Road is not shown. The area is rural with numerous empty parcels. Four structures are depicted on the south side of Ferguson Lake.

In addition to nineteenth-century mapping, historical topographic maps from the twentieth century were examined. This report presents maps from 1936, 1950, and 1987 (Figure 3 to Figure 5).

By 1936, Ferguson Lake Road has been surveyed. Two structures are shown adjacent Ferguson Lake Road. The 1950 map shows two bridges have been constructed where Ferguson Lake Road meets Constant Creek. Four structures are adjacent Ferguson Lake Road. The area continues to be rural and largely undeveloped. The study area remains relatively unchanged in the late twentieth century apart from the construction of more cottages along Ferguson Lake.

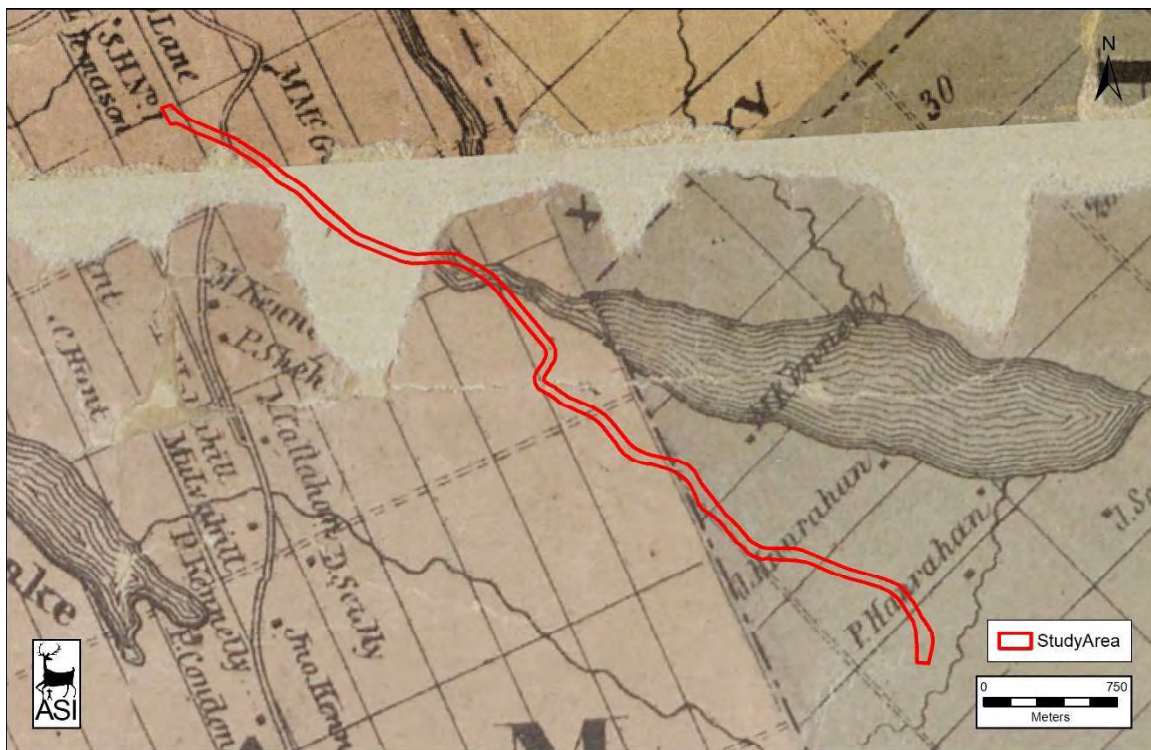


Figure 2: The study area overlaid on the 1863 Map of the Counties of Lanark and Renfrew

Base Map: (Walling 1863)



Figure 3: The study area overlaid on the 1936 topographical map of Renfrew
Base Map: (Department of the Interior, Topographical and Air Survey Bureau 1936)



Figure 4: The study area overlaid on the 1950 topographic map of Renfrew
Base Map: (Department of National Defence 1950)

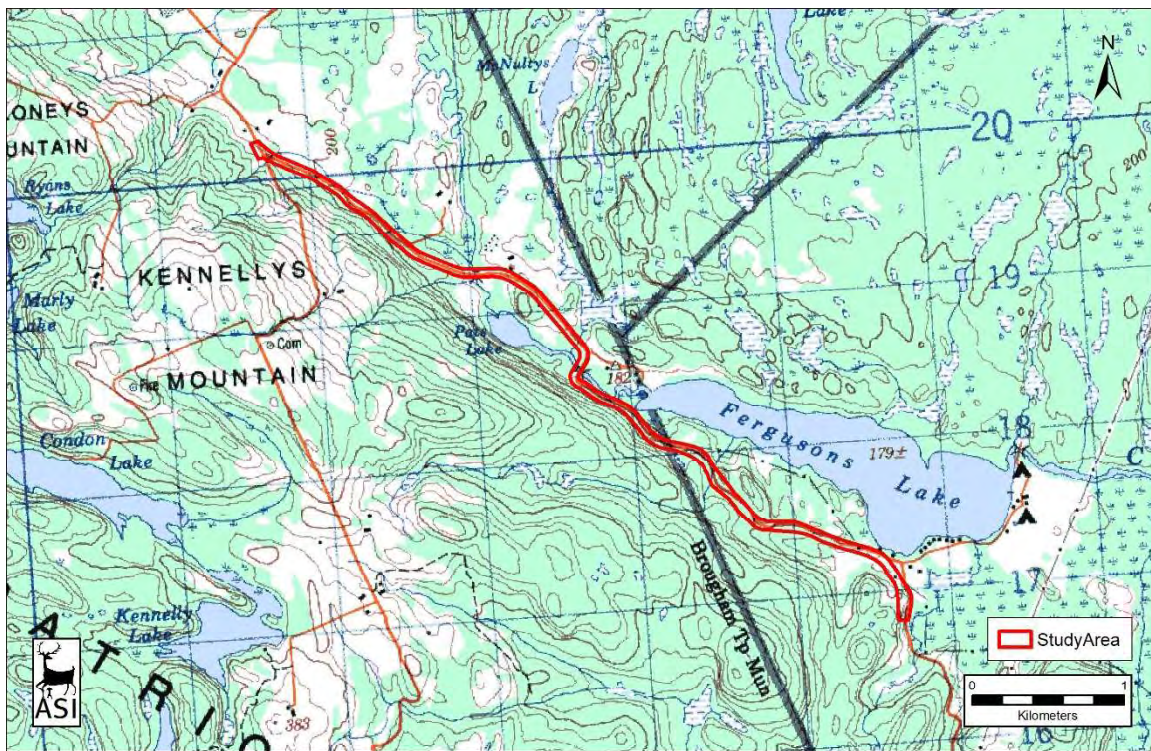


Figure 5: The study area overlaid on the 1987 topographic map of Renfrew

Base Map: (Department of Energy, Mines and Resources 1987)

5.0 IDENTIFICATION OF KNOWN AND POTENTIAL CULTURAL HERITAGE RESOURCES

5.1 Review of Existing Heritage Inventories and Resources

A number of resources were consulted in order to identify existing cultural heritage resources within or adjacent to the study area². These resources include:

- Cultural Heritage Resource Assessment, Constant Creek Bridge Rehabilitation/Replacement Environmental Assessment Study, Renfrew Study (ASI 2009);
- The *Ontario Heritage Act Register* (Ontario Heritage Trust n.d.);
- The inventory of Ontario Heritage Trust easements (Ontario Heritage Trust n.d.);
- The *Places of Worship Inventory* (Ontario Heritage Trust n.d.);
- *Ontario Heritage Plaque Database* (Ontario Heritage Trust n.d.);
- *Ontario's Historical Plaques* website (Brown 2019);
- Database of known cemeteries/burial sites curated by the Ontario Genealogical Society (Ontario Genealogical Society n.d.);
- *Canada's Historic Places* website (Parks Canada n.d.);
- *Directory of Federal Heritage Designations* (Parks Canada n.d.);

² Reviewed 16 July 2020.

- Canadian Heritage River System (Canadian Heritage Rivers Board and Technical Planning Committee n.d.); and,
- United Nations Educational, Scientific and Cultural Organization (UNESCO) World Heritage Sites (UNESCO World Heritage Centre n.d.).

5.2 Public Consultation

The following stakeholders were contacted to gather information on potential cultural heritage resources, active and inactive cemeteries, and areas of identified Indigenous interest within and/or adjacent to the study area:

- Luke Desjardins, Manager of Planning and Development (email communication 17 and 21 July 2020) was contacted to gather any information on potential cultural heritage resources or concerns within and/or adjacent to the study area and to inquire if the municipality maintains a heritage register. A response provided an excerpt from an archaeological assessment prepared for a subdivision plan on Ferguson Lake. It was noted that the Township does not have any additional cultural heritage information that would be useful to this study.
- The MHSTCI (email communication 17 and 21 July 2020)³. Email correspondence confirmed that there are no previously identified heritage resources or concerns regarding the study area.
- The Ontario Heritage Trust (email communications 17 and 21 July 2020). A response indicated that there are no conservation easements or Trust-owned properties within or adjacent to the study area.

5.3 Summary of Previously Identified Cultural Heritage Resources

Based on the review of available municipal, provincial, and federal data, and the results of public consultation, there are no previously identified resources within and/or adjacent to the Ferguson Lake Road study area.

5.4 Field Review

A field review of the study area was undertaken by Johanna Kelly of ASI, on 10 July 2020 to document the existing conditions of the study area from existing rights-of-way. The existing conditions of the study area are described below and captured in Plate 1 to Plate 8. Identified cultural heritage resources are discussed in Section 5.5 and are mapped in Section 11.0 of this report.

The study area is located along Ferguson Lake Road between Kennelly Mountain Road to the north and approximately 400 metres south of Campground Sideroad in the Township of Greater Madawaska, in a generally northwest-southeast direction. The right-of-way (ROW) consists of a single lane of traffic in either direction, a narrow gravel shoulder, and drainage ditches. The study area traverses rolling topography, through generally forested land.

³ Contacted at registrar@ontario.ca.



The properties surrounding the study area are predominantly forested land. Active agricultural lands are scattered through the north half of the study area. Residential (or cottage) properties are located on the east side of Ferguson Lake Road, fronting Fergusons Lake, between Campground Sideroad to the south and Constant Creek to the north. The intersections of Ferguson Lake Road with Kellys Road and Campground Sideroad consist of two way stops with right-of-way given to vehicles travelling on Ferguson Lake Road. The Kennelly Mountain Road and Ferguson Lake Road intersection is a three-way stop. Ferguson Lake Road is carried over Constant Creek by a modern steel girder bridge. The current bridge replaced a 1926 half-through Warren truss structure, likely between 2013 and 2016 based on aerial imagery. The previous bridge was evaluated in 2009 and found to have moderate heritage significance (ASI 2009). However, no elements of the 1926 structure remain. A smaller tributary, draining into Pats Lake, flows below the study area through a modern double corrugated metal culvert between Kellys Road to the north and the Constant Creek Bridge to the south.



Plate 1: Looking northwest along Ferguson Lake Road, forested land on either side of the study area.



Plate 2: Looking northwest along Ferguson Lake Road, forested land on the left (south) and active agricultural land on the right (north).



Plate 3: Looking southeast along Ferguson Lake Road, residential/cottage properties are visible on the left (north).



Plate 4: Looking southeast along Ferguson Lake Road towards the south intersection with Campground Sideroad.



Plate 5: Looking southeast along Ferguson Lake Road across the intersection with Kellys Road.



Plate 6: Looking northwest along Ferguson Lake Road towards the intersection with Kennelly Mountain Road.



Plate 7: Looking north across the Constant Creek Bridge and Constant Creek.



Plate 8: Double corrugated metal culvert located between Kellys Road and Constant Creek.

5.5 Identified Cultural Heritage Resources

Based on the results of the background research and field review, one potential cultural heritage resource⁴ was identified within the Ferguson Lake Road study area (see Figure 6 and Table 2). A cultural heritage resource number has been assigned to each resource (CHR #). A detailed inventory of the cultural heritage resource within the study area is presented in Section 10.0 and mapping of the feature is provided in Section 11.0 of this report.

Table 2: Summary of the cultural heritage resource within and/or adjacent to the study area

CHR #	Location/Name	Heritage Recognition	Description
CHR 1	1356 Ferguson Lake Road	Identified during background research and field review	Historical residence and farmstead

⁴ For the purpose of this assessment, the term ‘cultural heritage resource’ is used to describe both cultural heritage landscapes and built heritage resources (see Section 3.0 for definitions).

6.0 SCREENING FOR POTENTIAL IMPACTS

6.1 Preliminary Impact Assessment Considerations

To assess the potential impacts of the undertaking, identified cultural heritage resources are considered against a range of possible impacts, based on the *Ontario Heritage Tool Kit InfoSheet #5: Heritage Impact Assessments and Conservation Plans* (Ministry of Tourism and Culture 2006, now administered by the Ministry of Heritage, Sport, Tourism and Culture Industries). These include:

- Direct impacts:
 - Destruction of any, or part of any, significant heritage attributes or features; and
 - Alteration that is not sympathetic, or is incompatible, with the historic fabric and appearance.
- Indirect impacts
 - Shadows created that alter the appearance of a heritage attribute or change the viability of a natural feature or plantings, such as a garden;
 - Isolation of a heritage attribute from its surrounding environment, context or a significant relationship;
 - Direct or indirect obstruction of significant views or vistas within, from, or of built and natural features;
 - A change in land use such as rezoning a battlefield from open space to residential use, allowing new development or site alteration to fill in the formerly open spaces; and
 - Land disturbances such as a change in grade that alters soils, and drainage patterns that adversely affect an archaeological resource.

Indirect impacts from construction-related vibration have the potential to negatively affect built heritage resources or cultural heritage landscapes dependent on the type of construction methods and machinery selected for the project and proximity and composition of cultural heritage resources. Potential vibration impacts are identified as having potential to affect an identified cultural heritage resource where work is taking place within 50 m of the property. A 50 m buffer is applied in the absence of a project specific defined vibration zone of influence based on existing secondary source literature and direction provided from the MHTSCI (Wiss 1981; Rainer 1982; Ellis 1987; Crispino and D'Apuzzo 2001; Carman et al. 2012). This buffer accommodates the additional threat from collisions with heavy machinery or subsidence (Randl 2001).

Several additional factors are also considered when evaluating potential impacts on identified cultural heritage resources. These are outlined in a document set out by the Ministry of Culture and Communications (now MHSTCI) and the Ministry of the Environment entitled *Guideline for Preparing the Cultural Heritage Resource Component of Environmental Assessments* (1992) and include:

- Magnitude: the amount of physical alteration or destruction which can be expected;
- Severity: the irreversibility or reversibility of an impact;
- Duration: the length of time an adverse impact persists;
- Frequency: the number of times an impact can be expected;
- Range: the spatial distribution, widespread or site specific, of an adverse impact; and



- Diversity: the number of different kinds of activities to affect a heritage resource.

For the purposes of evaluating potential impacts of development and site alteration, MHTSCI (2010) defines “adjacent” as: “contiguous properties as well as properties that are separated from a heritage property by narrow strip of land used as a public or private road, highway, street, lane, trail, right-of-way, walkway, green space, park, and/or easement or as otherwise defined in the municipal official plan.”

The proposed undertaking should endeavor to avoid adversely affecting cultural heritage resources and intervention should be managed in such a way that its impact is sympathetic with the value of the resources. When the nature of the undertaking is such that adverse impacts are unavoidable, it may be necessary to implement management or mitigation strategies that alleviate the deleterious effects on cultural heritage resources. Mitigation is the process of lessening or negating anticipated adverse impacts to cultural heritage resources and may include, but are not limited to, such actions as avoidance, monitoring, protection, relocation, remedial landscaping, and documentation of the cultural heritage landscape and/or built heritage resource if to be demolished or relocated.

Once a technically preferred preliminary design for the Reconstruction of Ferguson Lake Road Municipal Class Environmental Assessment study area has been identified, the cultural heritage resources identified within and adjacent to the study area will be evaluated against the above criteria and a summary of impact screening results will be provided. Various works associated with infrastructure improvements have the potential to affect cultural heritage resources in a variety of ways, and as such, appropriate mitigation measures for the undertaking need to be considered.

Where any above-ground cultural heritage resources are identified, which may be affected by direct or indirect impacts, appropriate mitigation measures should be developed. This may include completing a heritage impact assessment or documentation report, or employing suitable measures such as landscaping, buffering or other forms of mitigation, where appropriate. In this regard, provincial guidelines should be consulted for advice and further heritage assessment work should be undertaken as necessary.

7.0 CONCLUSIONS

The results of background historical research and a review of secondary source material, including historical mapping, indicate a study area with a rural land use history dating back to the mid-nineteenth century. A review of federal, provincial, and municipal registers, inventories, and databases revealed that there are no previously identified features of cultural heritage value within the Ferguson Lake Road study area. One additional feature was identified during the fieldwork.

Key Findings

- A total of 1 cultural heritage resource was identified within the study area.
- This cultural heritage resource was identified during the field review.



- The identified cultural heritage resource is historically, architecturally, and contextually associated with land use patterns in the Township of Greater Madawaska and more specifically representative of the early settlement along Ferguson Lake Road, an early twentieth century rural roadway.

8.0 RECOMMENDATIONS

Based on the results of the assessment, the following recommendations have been developed:

1. Construction activities and staging should be suitably planned and undertaken to avoid impacts to identified cultural heritage resources.
2. Once a preferred alternative or detailed designs of the proposed work are available, this report will be updated with a confirmation of impacts of the undertaking on the cultural heritage resources identified within and/or adjacent to the study area and will recommend appropriate mitigation measures. Mitigation measures may include, but are not limited to, completing a property-specific heritage impact assessment or documentation report, or employing suitable measures such as landscaping, buffering or other forms of mitigation, where appropriate. In this regard, provincial guidelines should be consulted for advice and further heritage assessment work should be undertaken as necessary.
3. Should future work require an expansion of the study area then a qualified heritage consultant should be contacted in order to confirm the impacts of the proposed work on potential heritage resources.



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10.0 CULTURAL HERITAGE RESOURCE INVENTORY

Cultural Heritage Resource Number

CHR 1

Property Type

Farmscape

Address or Location

1356 Ferguson Lake Road

Level of Heritage Recognition

None, identified during background research and field review

Property Description

- Farmstead and fence lines are illustrated in the location of the extant house on 1936 mapping (Figure 3).
- The property features a log cabin residence; several outbuildings, including a small log cabin barn; vegetative windbreak surrounding the house and fields; active agricultural fields; and wooden fencelines.
- Located on the north side of Ferguson Lake Road, an early twentieth-century roadway.

Potential Cultural Heritage Value or Interest and associated heritage attributes⁵

This property has potential to retain design, historical or associative, and contextual value.

Potential attributes include: General form and massing, wooden log construction, the stone chimney, front porch, any original windows, tree and fencelines, and agricultural fields.

The property supports the character of the area through the age and style of the structure, its scale and setback. The property is physically, functionally, visually, and historically linked to its surroundings.

Photos



Looking north towards the front elevation of the house (ASI 2020).



Aerial view of the farmscape (Google Earth 2019).

⁵ An evaluation of this property against criteria outlined in O. Reg 9/06 is required to identify any formal cultural heritage value or interest or attributes associated with this potential cultural heritage resource.

11.0 CULTURAL HERITAGE RESOURCE LOCATION MAPPING

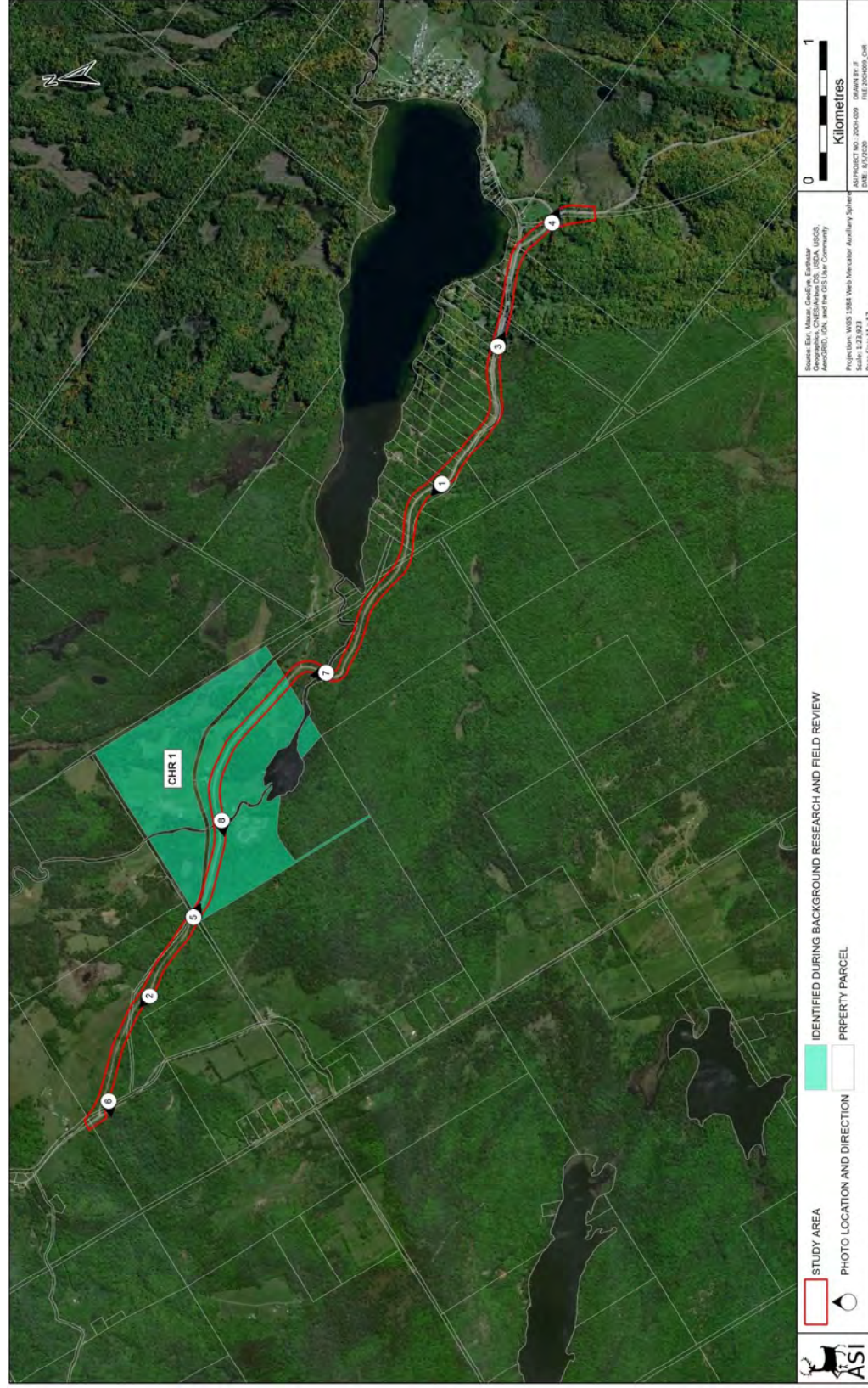


Figure 6: Location of Potential Cultural Heritage Resources and Photographic Plates in the Ferguson Lake Road Study Area

**STAGE 1 ARCHAEOLOGICAL ASSESSMENT
FERGUSON LAKE ROAD
(FORMER TOWNSHIPS OF BLITHFIELD AND BROUGHAM)
TOWNSHIP OF GREATER MADAWASKA
COUNTY OF RENFREW, ONTARIO**

ORIGINAL REPORT

Prepared for:

Greenview Environmental Management
13 Commerce Court
Bancroft, ON K0L 1C0

Archaeological Licence #P380 (Cooper)
Ministry of Heritage, Sport, Tourism and Culture Industries PIF# P380-0069-2020
ASI File: 20EA-015

7 August 2020



**Stage 1 Archaeological Assessment
Ferguson Lake Road
(Former Townships of Blithfield and Brougham)
Township of Greater Madawaska
County of Renfrew, Ontario**

EXECUTIVE SUMMARY

Archaeological Services Inc. was contracted by Greenview Environmental Management to conduct a Stage 1 Archaeological Assessment (Background Research and Property Inspection) as part of the Ferguson Lake Road Rehabilitation Project in the Township of Greater Madawaska. This project involves the proposed road reconstruction works of Ferguson Lake Road from south of Campground Sideroad to Kennelly Mountain Road.

The Stage 1 background study determined that no previously registered archaeological sites are located within one kilometre of the Study Area. The property inspection determined that parts of the Study Area exhibit archaeological potential and will require Stage 2 assessment.

In light of these results, the following recommendations are made:

1. The Study Area exhibits archaeological potential. These lands require Stage 2 archaeological assessment by test pit/pedestrian survey at five metre intervals, where appropriate, prior to any proposed construction activities;
1. The remainder of the Study Area does not retain archaeological potential on account of deep and extensive land disturbance, low and wet conditions or slopes in excess of 20 degrees. These lands do not require further archaeological assessment; and,
2. Should the proposed work extend beyond the current Study Area, further Stage 1 archaeological assessment should be conducted to determine the archaeological potential of the surrounding lands.
3. Since the potential always exists to miss important information in archaeological surveys; if any artifacts of indigenous interest or human remains are encountered during the development of the subject property, please contact:

Algonquins of Ontario Consultation Office
31 Riverside Drive, Suite 101
Pembroke, Ontario K8A 8R6
Tel: 613-735-3759
Fax: 613-735-6307
E-mail: algonquins@tanakiwin.com



PROJECT PERSONNEL

<i>Senior Project Manager:</i>	Lisa Merritt, MSc. (P094) <i>Partner / Director</i> <i>Environmental Assessment Division</i>
<i>Project Coordinator:</i>	Hannah Brouwers, Hon. BA (R1270) <i>Archaeologist / Project Administrator</i> <i>Environmental Assessment Division</i>
	Katrina Thach, Hon. BA (R1225) <i>Archaeologist / Project Coordinator</i> <i>Environmental Assessment Division</i>
<i>Project Director (Licensee):</i>	Martin Cooper, MA (P380) <i>Senior Associate</i>
<i>Project Manager:</i>	Eliza Brandy, MA (R1109) <i>Associate Archaeologist / Project Manager</i> <i>Environmental Assessment Division</i>
<i>Field Director:</i>	Johanna Kelly, MSc (P1017) <i>Associate Bioarchaeologist / Cultural Heritage Associate</i> <i>Cultural Heritage Division</i>
<i>Report Preparation:</i>	Eliza Brandy Danielle Bella, Hon. BA <i>Archaeologist / Technical Writer</i> <i>Environmental Assessment Division</i>
<i>Graphics:</i>	Andrew Clish, BES (P046) <i>Senior Archaeologist / Senior Field Director</i> <i>Operations Division</i>
	Eric Bongelli, MA <i>Archaeologist / Geomatics Specialist</i> <i>Operations Division</i>
<i>Report Reviewer:</i>	Lisa Merritt



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1.0 PROJECT CONTEXT

Archaeological Services Inc. (ASI) was contracted by Greenview Environmental Management to conduct a Stage 1 Archaeological Assessment (Background Research and Property Inspection) as part of the Ferguson Lake Road Rehabilitation Project in the Township of Greater Madawaska (Figure 1). This project involves the proposed road reconstruction works of Ferguson Lake Road from south of Campground Sideroad to Kennelly Mountain Road.

All activities carried out during this assessment were completed in accordance with the *Ontario Heritage Act* (1990, as amended in 2018) and the 2011 *Standards and Guidelines for Consultant Archaeologists* (S & G), administered by the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI 2011), formerly the Ministry of Tourism, Culture and Sport.

1.1 Development Context

All work has been undertaken as required by the *Environmental Assessment Act*, RSO (Ministry of the Environment 1990 as amended 2010) and regulations made under the Act, and are therefore subject to all associated legislation. This project is being conducted in accordance with the Municipal Engineers' Association document *Municipal Class Environmental Assessment* (2000 as amended in 2007, 2011 and 2015).

Authorization to carry out the activities necessary for the completion of the Stage 1 archaeological assessment was granted by Greenview Environmental Management on June 2, 2020.

1.2 Historical Context

The purpose of this section, according to the S & G, Section 7.5.7, Standard 1, is to describe the past and present land use and the settlement history and any other relevant historical information pertaining to the Study Area. A summary is first presented of the current understanding of the Indigenous land use of the Study Area. This is then followed by a review of the historical Euro-Canadian settlement history.

1.2.1 Indigenous Land Use and Settlement

Eastern Ontario has been occupied by human populations since the retreat of the Laurentide glacier, approximately 13,500 before present (BP) (Ferris 2013:13). Populations at this time would have been highly mobile, inhabiting a boreal-parkland similar to the modern sub-arctic. By approximately 10,000 BP, the environment had progressively warmed (Edwards and Fritz 1988), and populations now occupied less extensive territories (Ellis and Deller 1990:62–63).

Between approximately 10,000-5,500 BP, the Great Lakes basins experienced low-water levels, and many sites which would have been located on those former shorelines are now submerged. This period produces the earliest evidence of heavy wood working tools, an indication of greater investment of labour in felling trees for fuel, to build shelter, and watercraft production. These activities suggest prolonged seasonal residency at occupation sites. Polished stone and native copper implements were being produced by approximately 8,000 BP; the latter was acquired from the north shore of Lake Superior, evidence of extensive exchange networks throughout the Great Lakes region. The earliest evidence for cemeteries



dates to approximately 4,500-3,000 BP and is indicative of increased social organization, investment of labour into social infrastructure, and the establishment of socially prescribed territories (Ellis et al. 1990; Ellis et al. 2009; Brown 1995:13).

Lithic sites that likely date to the Late Palaeo or Early Archaic period have been reported for the Ottawa Valley area (eg. Swayze 2005; Swayze and McGhee 2011).

By approximately 6,000 BP, evidence exists for the highly specialized production of ground-stone and native copper artifacts. This is coupled with evidence for population growth and extensive exchange networks (Ellis et al. 1990:88, 90). Material culture is indicative of influences from populations in the St. Lawrence basin of southeastern Ontario and southern Quebec, however a number of sites in the Trent Valley may indicate a more westward extension of this influence and indicate a connection between the populations in the Ottawa Valley and those in the St. Lawrence basin (Ellis et al. 1990:90; Ramsden 1997). Trapping and fishing appear to have been a main-stay of subsistence. The combined habitation-burial sites are suggestive of decreased mobility (Ellis et al. 1990:91). This use of the Ottawa River Valley as a special place for burial should be seen as deliberate and reflective of the cosmology of these people (Parker Pearson 1999:141).

Between approximately 4,800 through 4,000 BP, populations in eastern Ontario had greater variability in their diet, and began inhabiting larger sites with overall greater cultural complexity (Ellis et al. 1990:120). Evidence exists for infrastructure such as fish weirs as well as established cemeteries (Ellis et al. 1990, 2009). At this time period, the Great Lakes watershed was experiencing the Nipissing high-water phase. Around 5,000 BP, isostatic rebound of the continent caused the Lake Huron basin to flood in-land as far as Lake Nipissing (though the exact strandline is debated). This isostatic rebound also affected the watershed boundaries causing the upper Great Lakes to drain through the modern St. Clair River drainage rather than its previous drainage down the Ottawa River (Jackson et al. 2000). This drastic change to the waterways of Ontario certainly had profound implications for the human geography of the entire Great Lakes basin.

Between 3,000-2,500 BP, populations continued to practice residential mobility and to harvest seasonally available resources, including spawning fish. The Woodland period begins around 2,500 BP and exchange and interaction networks broaden at this time (Spence et al. 1990:136, 138) and by approximately 2,000 BP, evidence exists for small community camps, focusing on the seasonal harvesting of resources (Spence et al. 1990:155, 164). By 1,500 BP there is macro botanical evidence for maize in southern Ontario, and it is thought that maize only supplemented people's diet. There is earlier phytolith evidence for maize in central New York State by 2,300 BP - it is likely that once similar analyses are conducted on Ontario ceramic vessels of the same period, the same evidence will be found (Birch and Williamson 2013:13–15). As is evident in detailed Anishinaabek ethnographies, winter was a period during which some families would depart from the larger group as it was easier to sustain smaller populations (Rogers 1962). It is generally understood that these populations were Algonquian-speakers during these millennia of settlement and land use.

Evidence for contact with populations in New York State and New England has been found at the Morrison's Island-2 site on the Ottawa River Valley. The Morrison's Island-2 site demonstrates the continuation of this mortuary landscape as well as provides evidence for elaborate burial customs (Spence et al. 1990: 140). The presence of red ochre at this site is specifically implicit of ceremonialism.

In southern Ontario, from the beginning of the Late Woodland period at approximately 1,000 BP, lifeways became more similar to that described in early historical documents. Between approximately



1000-1300 Common Era (CE), the communal site is replaced by the village focused on horticulture. Seasonal disintegration of the community for the exploitation of a wider territory and more varied resource base was still practised (Williamson 1990:317). By 1300-1450 CE, this episodic community disintegration was no longer practised and populations now communally occupied sites throughout the year (Dodd et al. 1990:343). From 1450-1649 CE this process continued with the coalescence of these small villages into larger communities (Birch and Williamson 2013). Through this process, the socio-political organization of the First Nations, as described historically by the French and English explorers who first visited southern Ontario, was developed. By 1600 CE, the communities within Simcoe County had formed the Confederation of Nations encountered by the first European explorers and missionaries. In the 1640s, the traditional enmity between the Haudenosaunee¹ and the Huron-Wendat (and their Algonquian allies such as the Nipissing and Odawa) led to the dispersal of the Huron-Wendat.

Algonquian-speaking groups were historically documented wintering with the Huron-Wendat, some who abandoned their country on the shores of the St. Lawrence because of attacks from the Haudenosaunee (Thwaites 1896-1901, 27:37). Other Algonquian groups were recorded along the northern and eastern shores and islands of Lake Huron and Georgian Bay - the "Ouasouarini" [Chippewa], the "Outchougai" [Outchougai], the "Atchiligouan" [Achiligouan] near the mouth of the French River and north of Manitoulin Island the "Amikouai, or the nation of the Beaver" [Amikwa; Algonquian] and the "Oumisagai" [Missisauga; Chippewa] (Thwaites 1896-1901, 18:229, 231). At the end of the summer 1670, Father Louys André began his mission work among the Mississagué, who were located on the banks of a river that empties into Lake Huron approximately 30 leagues from the Sault (Thwaites 1896-1901, 55:133-155).

The earliest recorded form of the name 'Algonquin' is the name 'Algoumequin' which dates to 1603. The name 'Algonquain' appears in 1632 (Day and Trigger 1978:797). The name 'Algonquins' is used by the modern name Algonquins of Ontario and it is this name that will be used in this report. The Algonquins were primarily hunter-fishers. While this was of the utmost economic importance, protocol was strictly guided by Algonquin cosmology and understanding of the spiritualism in the natural world. Some Algonquins also practiced limited horticulture on lots cleared by slash-and-burn (Whiteduck 2002). Control of the waterways was also an important facet of the Algonquin economy, as sovereignty and tolls were exacted for right-of-passage. Such tolls may be seen as comparable to modern day visas and/or tariffs, and were important elements of the Algonquins' place and position in the geo-political world of the seventeenth century (Whiteduck 2002). The Algonquin were referred to by the seventeenth century French as "la petite Nation." This refers to a tradition that the Algonquins had previously (prior to the sixteenth century) constituted a much larger group which had been fragmented in a battle near Trois Rivières (Day and Trigger 1978:794).

Historically, the main Algonquin bands included the Kichesipirini or "Big River people", with their main village on Morrison Island; the Waweskarini (literally wawashkesh irini or "deer people"), or the "Petite Nation des Algonquins", who lived along the rivers immediately west of Montreal; the Madaoueskarini ("Madawaska people"), who lived in the Madawaska River region west of Ottawa; the Kinouchibiriniouek (Kinozhe sipi iriniwag or "Pike river people"), who lived in the Bonnechere River watershed near Renfrew; and the Onontchataronon, or people of Iroquet, who lived south and east of Ottawa (Morrison 2005:14-15).

¹ The Haudenosaunee are also known as the New York Iroquois or Five Nations Iroquois and after 1722 Six Nations Iroquois. They were a confederation of five distinct but related Iroquoian-speaking groups – the Seneca, Onondaga, Cayuga, Oneida, and Mohawk. Each lived in individual territories in what is now known as the Finger Lakes district of Upper New York. In 1722 the Tuscarora joined the confederacy.



The Madawaska River, one of the main tributaries of Ottawa River, is home to the Madaoueskarini people, “the people of the shallows”. Towns today often sit where small familial villages of the Madaoueskarini Algonquins existed. A lack of land set aside for the Madaoueskarini people caused them to scatter from their homes at the headwaters of the Madawaska River, creating a divide within Madaoueskarini identity (Luckasavitch 2019).

The Madawaska River has been changed by hydro electric development, the landscape being transformed by the creation of new bodies of water, with dams and reservoirs taming the river and flooding some of its rapids. Centennial Lake was one such new body of water, created in the 1960s. Settlements have been flooded, such as the Black Donald Mines now under 80-feet of water (Graham n.d.).

During the 1690s, the Anishinaabeg replaced by force, the Haudenosaunee who had settled after 1650 along the north shores of Lake Ontario. (Rogers 1978:761). Peace was achieved between the Haudenosaunee and the Anishinaabeg Nations in August of 1701 when representatives of more than twenty Anishinaabeg Nations assembled in Montreal to participate in peace negotiations (Johnston 2004:10). During these negotiations captives were exchanged and the Iroquois and Anishinaabeg agreed to live together in peace. Peace between these nations was confirmed again at council held at Lake Superior when the Iroquois delivered a wampum belt to the Anishinaabeg Nations.

From the beginning of the eighteenth century to the assertion of British sovereignty in 1763, there is no interruption to Anishinaabeg control and use of southern Ontario. While hunting in the territory was shared, and subject to the permission of the various nations for access to their lands, its occupation was by Anishinaabeg until the assertion of British sovereignty, the British thereafter negotiating treaties with them. Eventually, with British sovereignty, tribal designations changed (Smith 1975:221–222; Surtees 1985:20–21). The word “Saulteux,” for example, was gradually substituted by “Chippewa” while the north shore of Lake Ontario groups became known as “Mississauga,” although some observers, like John Graves Simcoe, described them as a branch of the “Chippewa” and the two terms were often used as synonyms. The nineteenth-century Mississauga also called themselves “Ojibwa,” especially when addressing an English-speaking audience (Jones 1861:31).

According to Rogers (1978), by the twentieth century, the Department of Indian Affairs had divided the “Anishinaubag” into three different tribes, despite the fact that by the early eighteenth century, this large Algonquian-speaking group, who shared the same cultural background, “stretched over a thousand miles from the St. Lawrence River to the Lake of the Woods.” With British land purchases and treaties, the communities at Beausoleil Island, Cape Croker, Christian Island, Georgina and Snake Islands, Rama, Sarnia, Saugeen, the Thames, and Walpole, became known as “Chippewa” while the communities at Alderville, New Credit, Mud Lake, Rice Lake, and Scugog, became known as “Mississauga.” The northern groups on Lakes Huron and Superior, who signed the Robinson Treaty in 1850, appeared and remained as “Ojibbewas” in historical documents.

In the eighteenth century, Ontarian Métis began to identify as a separate group, rather than by their typically maternal First Nations and paternal European ancestry (Métis National Council n.d.). Métis communities were established throughout Ontario, with the majority of the population located north and west of Lake Superior (MNC n.d.; Stone and Chaput 1978:607,608). The early nineteenth century saw a great number of Métis families moving to southern Lake Huron and Georgian Bay, including Kincardine, Owen Sound, Penetanguishene, and Parry Sound (MNC n.d.). The Supreme Court of Canada has recently reaffirmed that Métis people have full rights as one of the Indigenous people of Canada under subsection 91(24) of the Constitution Act, 1867 (Supreme Court of Canada 2003; Supreme Court of Canada 2016).



The Study Area is within the Robinson-Huron Treaty land. In 1850, the treaty was signed by the Ojibway ceding most of the land in northern Ontario for resource extraction and settlement. The Métis lost much of their rights during the negotiations of the treaty, particularly regarding their land, despite having strong support from Chief Shingwaukonse from Garden River. Regardless of the treatment by the Crown of the Métis, the Ojibway continued to regard the Métis as having the same rights as them (Lytwyn 1998; Préfontaine 2003). It was also assumed that the Métis would continue to have the right to hunt and fish, as evident in the nineteenth century census data showing the occupation of many Métis as hunters, fishermen, trappers and traders. Although mostly removed from the core due to the inability to own land, the Métis continued to live on the outskirts of Sault Ste. Marie (Lytwyn 1998). The Robinson Treaty remains a contentious document.

The Study Area is also within the Rideau Purchase, or Treaty No. 27 of the Upper Canada Land Surrenders. This treaty was negotiated in May of 1819 by John Ferguson representing the Crown with representatives of a Mississauga band living in the Bay of Quinté area for land to be surveyed into Torbolton, Fitzroy, Huntley, March and Goulbourn Townships. By signing, the Mississauga ceded part of the Madawaska and Mississippi Rivers watersheds, “despite abundant proof that the Algonquins and the Nipissings, from time immemorial, have considered this part of the country as their exclusive hunting grounds”(St. Louis 1951; Huitema n.d.:10–11). The Algonquin challenged the treaty in 1836 however no action was taken to recognize the treaty lands as within their traditional territory, and the government of Upper Canada and the Crown chose to recognize the Mississauga’s claims within Algonquin traditional territory (ASI and Geomatics International Inc. 1999; Aboriginal Affairs and Northern Development Canada 2016; Hessel 1987:69; Walker and Walker 1968:7; Huitema n.d.).

This area is within the current Algonquins of Ontario land claim for their unceded traditional territory. In 2016, an agreement in principle was ratified, including a transfer of \$300-million to the AOO and approximately 48,000 hectares to Algonquin ownership. The Algonquins of Ontario and the governments of Ontario and Canada have continued to advance negotiations towards a Final Agreement. The Algonquin claim is one of the largest in Canadian history (Algonquins of Ontario 2013a; Algonquins of Ontario 2013b; Indigenous and Northern Affairs Canada 2016).

1.2.2 Euro-Canadian Land Use: Township Survey and Settlement

Historically, the Study Area is located in the Former Townships of Brougham and Blithfield, County of Renfrew in the following Lots & Concessions:

Township of Brougham

- Concession 13, Lot 4
- Concession 12, Lots 3-4
- Concession 11, Lots 1-3
- Concession 10, Lot 1

Township of Blithfield

- Concession 4, Lots 26-30

The S & G stipulates that areas of early Euro-Canadian settlement (pioneer homesteads, isolated cabins, farmstead complexes), early wharf or dock complexes, pioneer churches, and early cemeteries are considered to have archaeological potential. Early historical transportation routes (trails, passes, roads, railways, portage routes), properties listed on a municipal register or designated under the *Ontario*



Heritage Act or a federal, provincial, or municipal historic landmark or site are also considered to have archaeological potential.

For the Euro-Canadian period, the majority of early nineteenth century farmsteads (i.e., those that are arguably the most potentially significant resources and whose locations are rarely recorded on nineteenth century maps) are likely to be located in proximity to water. The development of the network of concession roads and railroads through the course of the nineteenth century frequently influenced the siting of farmsteads and businesses. Accordingly, undisturbed lands within 100 m of an early settlement road are also considered to have potential for the presence of Euro-Canadian archaeological sites.

The first Europeans to arrive in the area were transient merchants and traders from France and England, who followed Indigenous pathways and set up trading posts at strategic locations along the well-traveled river routes. All of these occupations occurred at sites that afforded both natural landfalls and convenient access, by means of the various waterways and overland trails, into the hinterlands. Early transportation routes followed existing Indigenous trails, both along the lakeshore and adjacent to various creeks and rivers (ASI 2006).

Brougham Township

Brougham Township was established in 1851. The government of Upper Canada held building settlement roads as a priority by the 1850s. One such was the Ottawa-Opeongo Road, travelling between Farrell's Landing on the Ottawa River and within kilometres of Mount St. Patrick. The first Euro-Canadian settlers were primarily Irish Catholic immigrants and settlement focused at the community of Mount St. Patrick. In the first years, visiting missionary priests would visit the community. Later, a log church was built near the farm of Father John McNulty. A still extant stone church was constructed in 1869, located in the village for accessibility. The first post office (in 1851), store, church, school and black smith shop were all located in Mount St. Patrick (Graham n.d.).

T.P. French set up his headquarters as Crown Land Agent in Mount St. Patrick in 1855, residing at the John Brady Hotel. As a Crown Land Agent, French was to promote settlement, sell Crown Lands, provide aid and advice to settlers, as well as ensuring they fulfilled their obligations and reporting on his progress. French's advertisements were believable and engaging, with his embellished prose often not reflecting reality. French contributed to the importance and growth of Mount St. Patrick with the many settlers he attracted to the area (Graham n.d.).

Brougham Township is known for its mining heritage; at one time producing black lead, molybdenum and iron ore. Early income to the first settlers was derived from both potash and hardwood timber, an abundance of both of which was found in the township. Following land clearance, agriculture became a more extensive industry (Mika and Mika 1977:217; Graham n.d.).

Blithfield Township

Blithfield Township is located on the southern border of the County of Renfrew and was established in 1843. The first Euro-Canadians to enter the township were lumbermen conducting log drives down the Madawaska River in the early 1800s. Settlers typically spent summers tending their farms and during the winter cut timber. Calabogie Lake, and specifically the community of Barrett Chute on the southern shore, was an important overnight stop on these drives. Blithfield Township was united with Bagot Township as a single municipality (Mika and Mika 1977:217).



1.2.3 Historical Map Review

The 1863 *Map of the Counties of Lanark and Renfrew* (Walling 1863) was examined to determine the presence of historic features within the Study Area during the nineteenth century (Table 1; Figure 2).

It should be noted, however, that not all features of interest were mapped systematically in the Ontario series of historical atlases, given that they were financed by subscription, and subscribers were given preference with regard to the level of detail provided on the maps. Moreover, not every feature of interest would have been within the scope of the atlases.

In addition, the use of historical map sources to reconstruct/predict the location of former features within the modern landscape generally proceeds by using common reference points between the various sources. These sources are then geo-referenced in order to provide the most accurate determination of the location of any property on historic mapping sources. The results of such exercises are often imprecise or even contradictory, as there are numerous potential sources of error inherent in such a process, including the vagaries of map production (both past and present), the need to resolve differences of scale and resolution, and distortions introduced by reproduction of the sources. To a large degree, the significance of such margins of error is dependent on the size of the feature one is attempting to plot, the constancy of reference points, the distances between them, and the consistency with which both they and the target feature are depicted on the period mapping.

The 1863 map is in poor condition. By this time, Kennelly Mountain Road is shown to be a historically surveyed road, while Ferguson Lake Road is not shown. Three structures are depicted on the south side of Ferguson Lake.

1.2.4 Twentieth-Century Mapping Review

The 1938 and 1987 National Topographic Series (NTS) Renfrew Sheets (Department of National Defence 1938; Department of Energy, Mines and Resources 1987) were examined to determine the extent and nature of development and land uses within the Study Area (Figures 3-4).

By 1936, Ferguson Lake Road has been surveyed. Two structures are shown adjacent Ferguson Lake Road. The 1987 map shows two bridges have been constructed where Ferguson Lake Road meets Constant Creek. A power transmission line intersects Ferguson Lake Road at the Brougham-Blithfield township border and again nearing Campground Sideroad. Four structures are adjacent Ferguson Lake Road.

1.3 Archaeological Context

This section provides background research pertaining to previous archaeological fieldwork conducted within and in the vicinity of the Study Area, its environmental characteristics (including drainage, soils or surficial geology and topography, etc.), and current land use and field conditions. Three sources of information were consulted to provide information about previous archaeological research: the site record forms for registered sites available online from the MHSTCI through “Ontario’s Past Portal”; published and unpublished documentary sources; and the files of ASI.



1.3.1 Current Land Use and Field Conditions

A review of available Google satellite imagery since 2009 shows that a new road connecting Ferguson Lake Road and Campground Sideroad had been constructed within the Study Area by 2016. As indicated by the surficial geology mapping, evidence of extraction can be seen of sand and gravel pits.

A Stage 1 property inspection was conducted on July 10, 2020 that noted the Study Area is located along Ferguson Lake Road between Kennelly Mountain Road to the north and approximately 400 metres south of Campground Sideroad in the Township of Greater Madawaska, in a generally northwest-southeast direction. The right-of-way (ROW) consists of a single lane of traffic in either direction, a narrow gravel shoulder, drainage ditches, and severely sloping road cuts. The Study Area traverses rolling topography, through generally forested land. Active agricultural lands are scattered through the north half of the Study Area. Residential (or cottage) properties are located on the east side of Ferguson Lake Road, fronting Fergusons Lake, between Campground Sideroad to the south and Constant Creek to the north. Built-up berms line the side of the road in areas the road curves sharply.

1.3.2 Geography

In addition to the known archaeological sites, the state of the natural environment is a helpful indicator of archaeological potential. Accordingly, a description of the physiography and soils are briefly discussed for the Study Area.

The S & G stipulates that primary water sources (lakes, rivers, streams, creeks, etc.), secondary water sources (intermittent streams and creeks, springs, marshes, swamps, etc.), ancient water sources (glacial lake shorelines indicated by the presence of raised sand or gravel beach ridges, relic river or stream channels indicated by clear dip or swale in the topography, shorelines of drained lakes or marshes, cobble beaches, etc.), as well as accessible or inaccessible shorelines (high bluffs, swamp or marsh fields by the edge of a lake, sandbars stretching into marsh, etc.) are characteristics that indicate archaeological potential.

Water has been identified as the major determinant of site selection and the presence of potable water is the single most important resource necessary for any extended human occupation or settlement. Since water sources have remained relatively stable in Ontario since 5,000 BP (Karrow and Warner 1990:Figure 2.16), proximity to water can be regarded as a useful index for the evaluation of archaeological site potential. Indeed, distance from water has been one of the most commonly used variables for predictive modeling of site location.

The AOO state that archaeological sites within the Algonquin Traditional Territory typically have a minimal archaeological footprint. Since eastern Ontario was characterized by glacial lakes and/or inland seas, paleo-shorelines and associated archaeological sites are often located further inland from modern shorelines. The Study Area is located between two relict beaches, approximately 700 metres to the north and south.

Algonquin cosmology understood that the natural world was filled with spirits or Manitous. Such Manitous were found in the rivers, and maintaining their benevolence was of regular importance while travelling through the country. Manitous could be identified at places with 'power' and may especially be found at places such as waterfalls, caves or canyons which are prone to reverberation, echo, or other noise (Whiteduck 2002).



Other geographic characteristics that can indicate archaeological potential include: elevated topography (eskers, drumlins, large knolls, and plateaux), pockets of well-drained sandy soil, especially near areas of heavy soil or rocky ground, distinctive land formations that might have been special or spiritual places, such as waterfalls, rock outcrops, caverns, mounds, and promontories and their bases. There may be physical indicators of their use, such as burials, structures, offerings, rock paintings or carvings. Resource areas, including; food or medicinal plants (migratory routes, spawning areas) are also considered characteristics that indicate archaeological potential (S & G, Section 1.3.1).

The Study Area is located within the spillways and the shallow till and rock ridges of the Algonquin Highlands physiographic region of southern Ontario (Chapman and Putnam 1984). The Algonquin Highlands region is underlain by granite and other hard Precambrian rocks and covers approximately 4,020 hectares of land (Chapman and Putnam 1984:211). This region is broadly dome shaped, with the crown standing at 488-549 metres above sea level and sloping down to approximately 274 metres in the west and approximately 183 metres in the east. The local relief is rough and includes rounded knobs and ridges. There are frequent outcrops of bare rock but they do not amount to more than 5% of the total surface area. The soils in this region are generally shallow but thickness over the bedrock can vary greatly over short distances.

Spillways are the former glacial meltwater channels. They are often found in association with moraines but in opposition are entrenched rather than elevated landforms. They are often though not always occupied by stream courses, the fact of which raises the debate of their glacial origin. Spillways are typically broad troughs floored wholly or in part by gravel beds and are typically vegetated by cedar swamps in the lowest beds (Chapman and Putnam 1984:15).

Figure 5 depicts surficial geology for the Study Area. The surficial geology mapping demonstrates that the Study Area is underlain by (Ontario Geological Survey 2010):

- Organic deposits of peat, muck, marl
- Silty sand to sand-textured till on Precambrian terrain
- Precambrian bedrock
- Glaciofluvial deposits, river deposits and delta topset facies
- Ice-contact stratified deposits of sand and gravel, minor silt, clay and till

The surficial geology mapping also indicates two sand and gravel pits immediately adjacent to the Study Area.

Soils in the Study Area consists of Eganville loam rocky phase, a grey-brown podzolic with good drainage (Figure 6).

The Study Area is adjacent to Fergusons Lake, with Constant Creek and tributaries intersecting at multiple points. Constant Creek is a tributary of Calabogie Lake, which is part of the Madawaska River, a 230 kilometres long river beginning at its headwaters of Source Lake in Algonquin Park. The Madawaska River outlets into the Ottawa River at Arnprior. The river drops 224 metres in elevation. Hydro electric development including dams and reservoirs have flooded some of the rapids, which changed the landscape, creating new bodies of water while flooding other areas, including former settlements like the Black Donald Mines now under Black Donald Lake (Graham n.d.).

Surveys for the timber industry were conducted by the government along the Madawaska Rivers to facilitate their use as transport routes, often interfering with strategic Algonquin encampments. Algonquin people wrote to the provincial government that timber squatters were invading their lands, however these



complaints were largely ignored to avoid justifying Algonquin land claims to the areas in question. As game became scarce in these areas, and the rivers choked with timber logs in the spring, many Algonquin men were forced to seek work in the timber industry (Huitema n.d.:33–34).

The transportation of timber by way of the Madawaska river had waned by 1920, instead the river began to be used for hydro-electric power. Ontario Hydro purchased the Calabogie Generating Station from the M.J. O'Brien interest and two upper reservoir dams at Bark Lake and Palmer Rapids in 1929. By 1940, Bark Lake Dam was re-constructed in order to raise the level 8-metres, thereby creating a significant storage reservoir. Barrett Chute Generating Station became operational in 1942, and the Stewartville Generating Station in 1948. The 1960 continued to see growth in energy demand, and the Mountain Chute Generating Station was built in 1965-1966, while Barrett Chute Generating Station and Stewartville Generating Station added generators. Arnprior Generating Station began operation in 1976. The hydro development changed the river, rapids were eliminated while lakes were created, largely taming the once dangerous river (Graham n.d.).

1.3.3 Previous Archaeological Research

In Ontario, information concerning archaeological sites is stored in the Ontario Archaeological Sites Database (OASD) maintained by the MHSTCI. This database contains archaeological sites registered within the Borden system. Under the Borden system, Canada has been divided into grid blocks based on latitude and longitude. A Borden block is approximately 13 km east to west, and approximately 18.5 km north to south. Each Borden block is referenced by a four-letter designator, and sites within a block are numbered sequentially as they are found. The Study Area under review is located in Borden block *BhGf*.

According to the OASD, no previously registered archaeological sites are located within one kilometre of the Study Area (MHSTCI 2020).

According to the background research, one previous report details fieldwork within 50 m of the Study Area.

(ASI 2009 P057-528-2009) conducted a Stage 1 Archaeological Assessment of the Constant Creek Bridge, overlapping the current Study Area along Ferguson Lake Road from south of Kellys Road to west of the north edge of Ferguson Lake. Background research and a property inspection were conducted focusing on six proposed alternatives. Alternative 1, Alternative 3, and Alternative 6 were determined to be disturbed, sloped or low and wet and were not recommended for further archaeological assessment. Alternative 2, Alternative 4, and Alternative 5 intersect within the current Study Area. Stage 2 Archaeological Assessment was recommended within a clearing west of the road on the south side of Constant Creek, labelled "Area 1".

2.0 FIELD METHODS: PROPERTY INSPECTION

A Stage 1 property inspection must adhere to the S & G, Section 1.2, Standards 1-6, which are discussed below. The entire property and its periphery must be inspected. The inspection may be either systematic or random. Coverage must be sufficient to identify the presence or absence of any features of archaeological potential. The inspection must be conducted when weather conditions permit good visibility of land features. Natural landforms and watercourses are to be confirmed if previously identified. Additional features such as elevated topography, relic water channels, glacial shorelines, well-



drained soils within heavy soils and slightly elevated areas within low and wet areas should be identified and documented, if present. Features affecting assessment strategies should be identified and documented such as woodlots, bogs or other permanently wet areas, areas of steeper grade than indicated on topographic mapping, areas of overgrown vegetation, areas of heavy soil, and recent land disturbance such as grading, fill deposits and vegetation clearing. The inspection should also identify and document structures and built features that will affect assessment strategies, such as heritage structures or landscapes, cairns, monuments or plaques, and cemeteries.

The Stage 1 archaeological assessment property inspection was conducted under the field direction of Johanna Kelly (P1017) of ASI, on July 10, 2020 in order to gain first-hand knowledge of the geography, topography, and current conditions and to evaluate and map archaeological potential of the Study Area. It was a visual inspection only and did not include excavation or collection of archaeological resources. Fieldwork was only conducted when weather conditions were deemed suitable and seasonally appropriate, per S & G Section 1.2., Standard 2. Previously identified features of archaeological potential were examined; additional features of archaeological potential not visible on mapping were identified and documented as well as any features that will affect assessment strategies. Field observations are compiled onto the existing conditions of the Study Area in Section 7.0 (Figures 8-12) and associated photographic plates are presented in Section 8.0 (Plates 1-24).

3.0 ANALYSIS AND CONCLUSIONS

The historical and archaeological contexts have been analyzed to help determine the archaeological potential of the Study Area. These data are presented below in Section 3.1. Results of the analysis of the Study Area property inspection are presented in Section 3.2.

3.1 Analysis of Archaeological Potential

The S & G, Section 1.3.1, lists criteria that are indicative of archaeological potential. The Study Area meets the following criteria indicative of archaeological potential:

- Water sources: primary, secondary, or past water source (Ferguson Lake, Constant Creek);
- Early historic transportation routes (Ferguson Lake Road, Ferguson Lake, Kennelly Mountain Road); and
- Well-drained soils (Eganville loam rocky phase)

According to the S & G, Section 1.4 Standard 1e, no areas within a property containing locations listed or designated by a municipality can be recommended for exemption from further assessment unless the area can be documented as disturbed. The Township does not have a Municipal Heritage Register.

These criteria are indicative of potential for the identification of Indigenous and Euro-Canadian archaeological resources, depending on soil conditions and the degree to which soils have been subject to deep disturbance.

3.2 Analysis of Property Inspection Results

The property inspection determined that parts of the Study Area exhibit archaeological potential. These



areas will require Stage 2 archaeological assessment, if impacted by the final project designs, prior to any construction activities. According to the S & G Section 2.1.1, pedestrian survey is required in actively or recently cultivated fields (Plates 2-3, 8, 10-11; Figures 9-10: areas highlighted in orange). According to the S & G Section 2.1.2, test pit survey is required on terrain where ploughing is not viable, such as wooded areas, properties where existing landscaping or infrastructure would be damaged, overgrown farmland with heavy brush or rocky pasture, and narrow linear corridors up to 10 metres wide (Plates 2-,5 9-11, 13-15, 21-24; Figures 9-13: areas highlighted in green).

Part of the Study Area has been subject to a previous assessment by ASI (2009) that determined that the existing road ROW was disturbed and did not retain archaeological potential. Due to the age of this previous assessment, this location was reassessed as part of the current assignment to ensure compliance with the 2011 S & G and to provide up to date mapping of the field results.

A part of the Study Area is located in low and wet conditions, and according to the S & G Section 2.1 does not retain potential (Plate 6, 13; Figures 10-11: areas highlighted in blue). The remainder of the Study Area has been subjected to deep soil disturbance events due to road construction and property developments, and according to the S & G Section 1.3.2 do not retain archaeological potential (Plates 1-24; Figures 9-13: areas highlighted in yellow). These areas do not require further survey.

3.3 Conclusions

The Stage 1 background study determined that no previously registered archaeological sites are located within one kilometre of the Study Area. The property inspection determined that parts of the Study Area exhibit archaeological potential and will require Stage 2 assessment.



4.0 RECOMMENDATIONS

In light of these results, the following recommendations are made:

1. The Study Area exhibits archaeological potential. These lands require Stage 2 archaeological assessment by test pit/pedestrian survey at five metre intervals, where appropriate, prior to any proposed construction activities;
2. The remainder of the Study Area does not retain archaeological potential on account of deep and extensive land disturbance, low and wet conditions or slopes in excess of 20 degrees. These lands do not require further archaeological assessment; and,
3. Should the proposed work extend beyond the current Study Area, further Stage 1 archaeological assessment should be conducted to determine the archaeological potential of the surrounding lands.
4. Since the potential always exists to miss important information in archaeological surveys; if any artifacts of indigenous interest or human remains are encountered during the development of the subject property, please contact:

Algonquins of Ontario Consultation Office
31 Riverside Drive, Suite 101
Pembroke, Ontario K8A 8R6
Tel: 613-735-3759
Fax: 613-735-6307
E-mail: algonquins@tanakiwin.com

NOTWITHSTANDING the results and recommendations presented in this study, ASI notes that no archaeological assessment, no matter how thorough or carefully completed, can necessarily predict, account for, or identify every form of isolated or deeply buried archaeological deposit. In the event that archaeological remains are found during subsequent construction activities, the consultant archaeologist, approval authority, and the Cultural Programs Unit of the MHSTCI should be immediately notified.



5.0 ADVICE ON COMPLIANCE WITH LEGISLATION

ASI also advises compliance with the following legislation:

- This report is submitted to the Ministry of Heritage, Sport, Tourism and Culture Industries as a condition of licensing in accordance with Part VI of the *Ontario Heritage Act*, RSO 1990, c 0.18. The report is reviewed to ensure that it complies with the standards and guidelines that are issued by the Minister, and that the archaeological field work and report recommendations ensure the conservation, preservation and protection of the cultural heritage of Ontario. When all matters relating to archaeological sites within the project area of a development proposal have been addressed to the satisfaction of the Ministry of Heritage, Sport, Tourism and Culture Industries, a letter will be issued by the ministry stating that there are no further concerns with regard to alterations to archaeological sites by the proposed development.
- It is an offence under Sections 48 and 69 of the *Ontario Heritage Act* for any party other than a licensed archaeologist to make any alteration to a known archaeological site or to remove any artifact or other physical evidence of past human use or activity from the site, until such time as a licensed archaeologist has completed archaeological field work on the site, submitted a report to the Minister stating that the site has no further cultural heritage value or interest, and the report has been filed in the Ontario Public Register of Archaeology Reports referred to in Section 65.1 of the *Ontario Heritage Act*.
- Should previously undocumented archaeological resources be discovered, they may be a new archaeological site and therefore subject to Section 48 (1) of the *Ontario Heritage Act*. The proponent or person discovering the archaeological resources must cease alteration of the site immediately and engage a licensed consultant archaeologist to carry out archaeological fieldwork, in compliance with sec. 48 (1) of the *Ontario Heritage Act*.
- The *Cemeteries Act*, R.S.O. 1990 c. C.4 and the *Funeral, Burial and Cremation Services Act*, 2002, S.O. 2002, c.33 (when proclaimed in force) require that any person discovering human remains must notify the police or coroner and the Registrar of Cemeteries at the Ministry of Consumer Services.



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7.0 MAPS





Figure 1: Location of Study Area

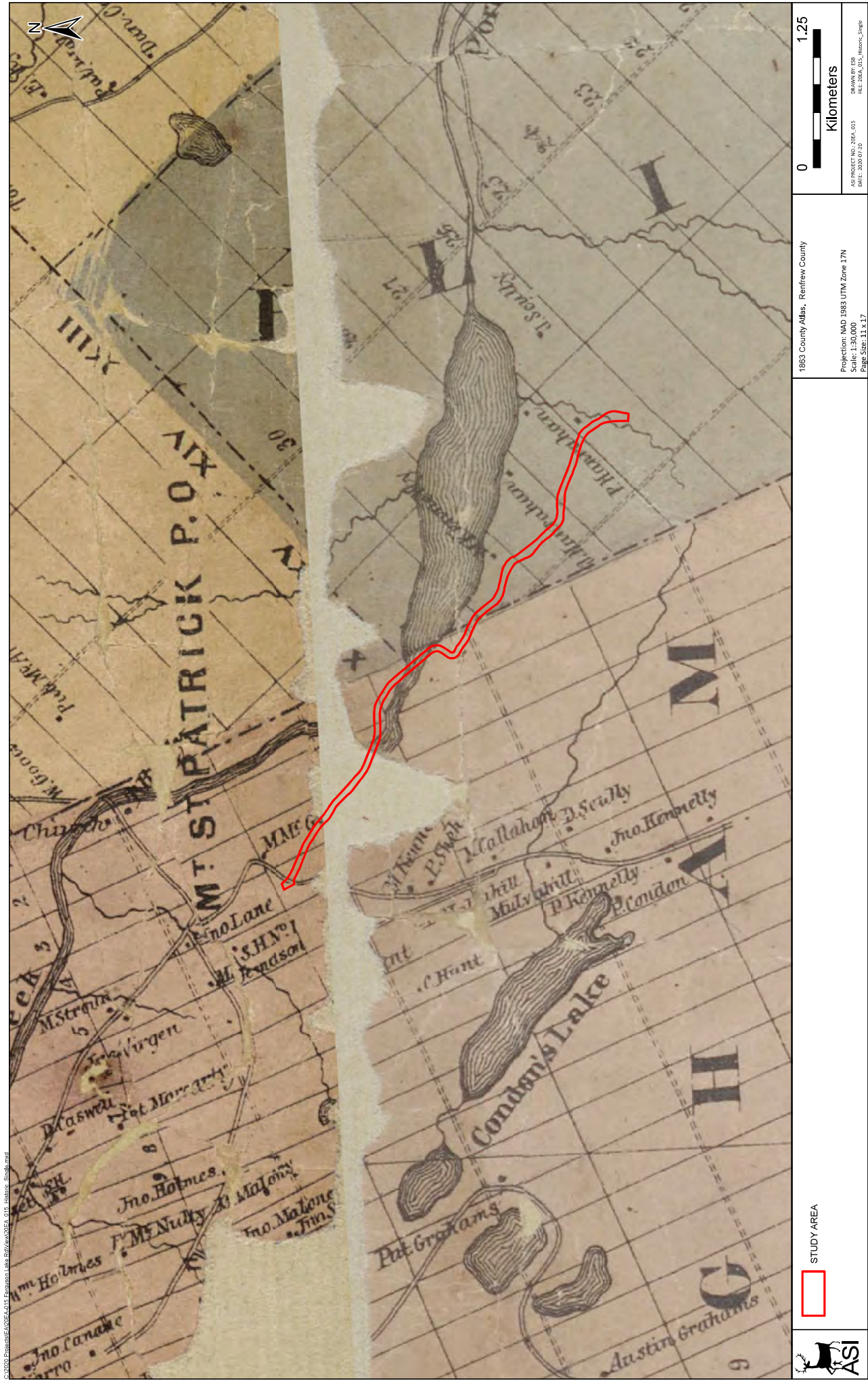


Figure 2: Study Area (Approximate Location) Overlaid on the 1863 Map of the Townships of Brougham and Blithfield



Figure 3: Study Area (Approximate Location) Overlaid on the 1938 National Topographic Series Renfrew Sheet

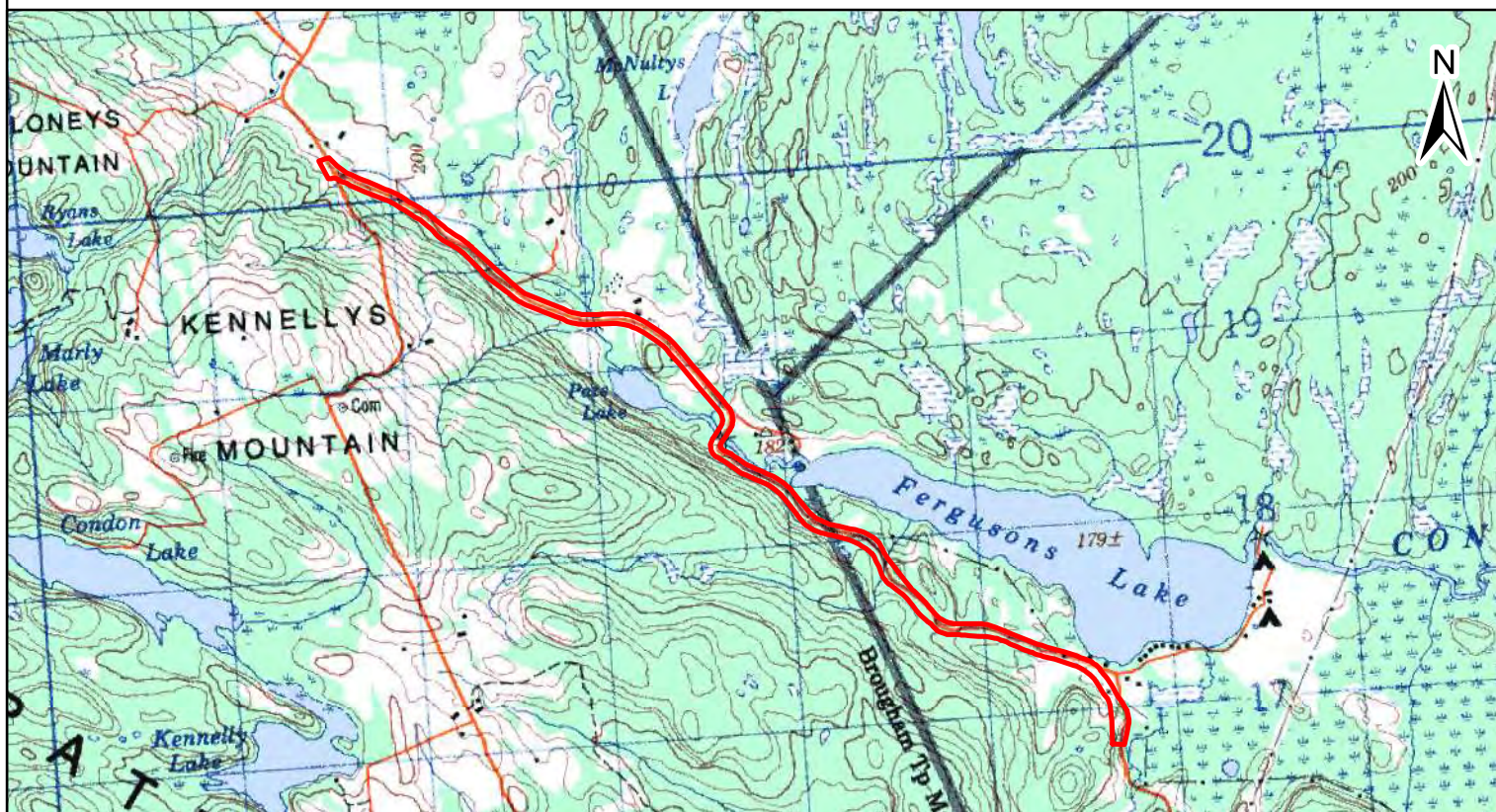


Figure 4: Study Area (Approximate Location) Overlaid on the 1987 National Topographic Series Renfrew Sheet




 STUDY AREA

Fig. 3: National Topographic System, Renfrew Sheet, 1938; Fig. 4: National Topographic System, Renfrew Sheet, 1987.

Projection: NAD 1983 UTM Zone 17N
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DATE: 2020-08-04

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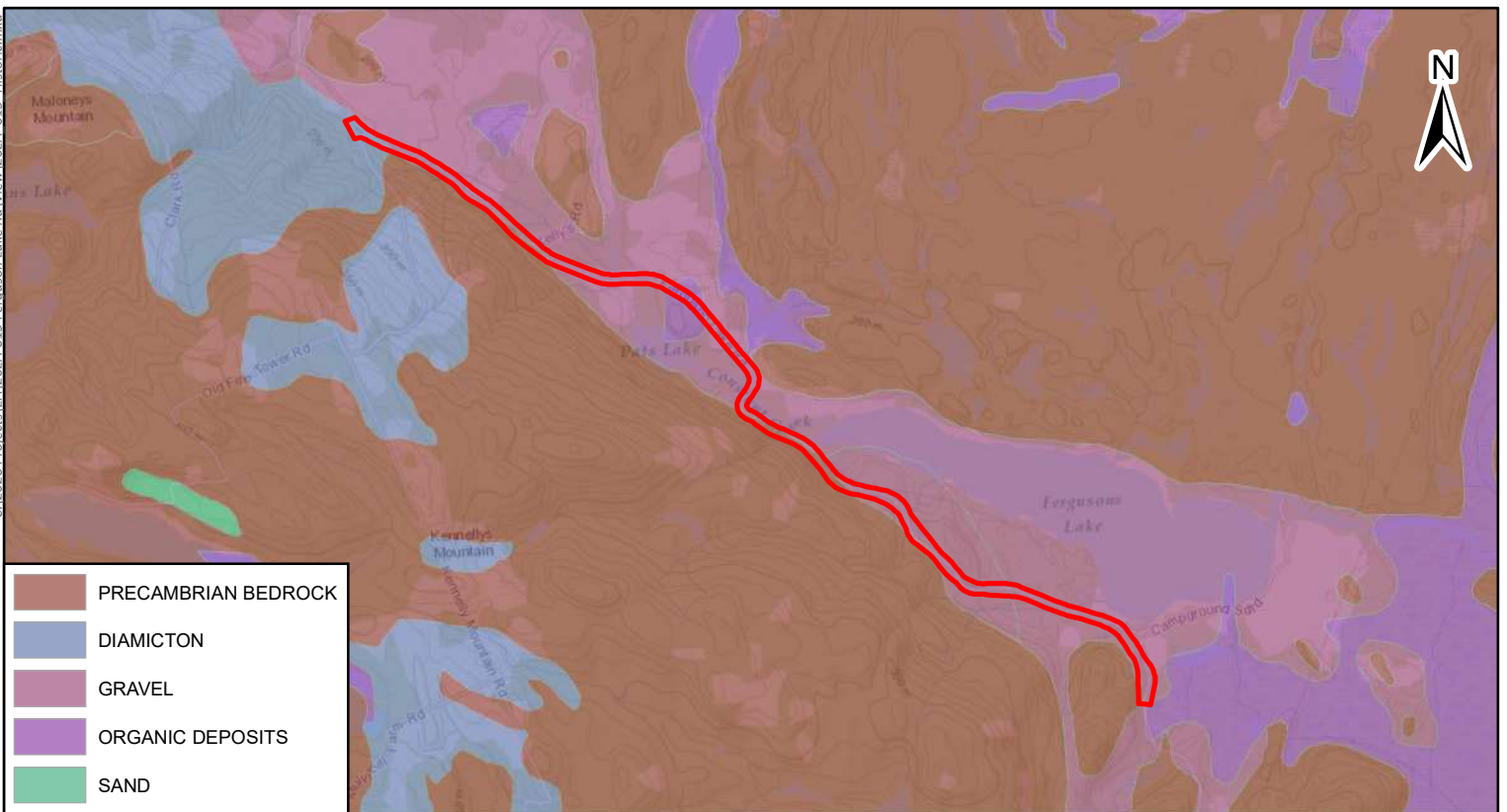


Figure 5: Study Area - Surficial Geology

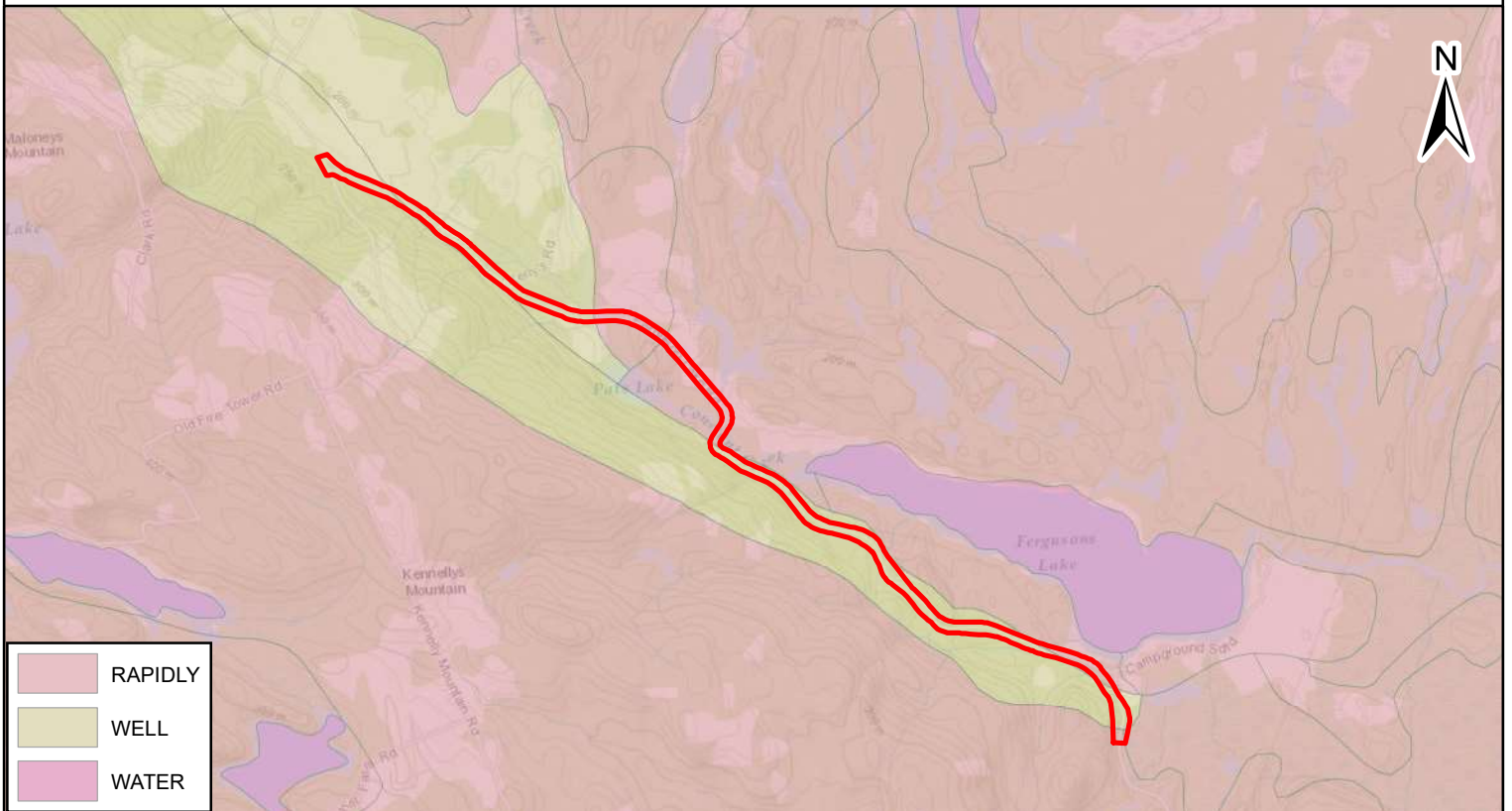



Figure 6: Study Area - Soil Drainage



 STUDY AREA

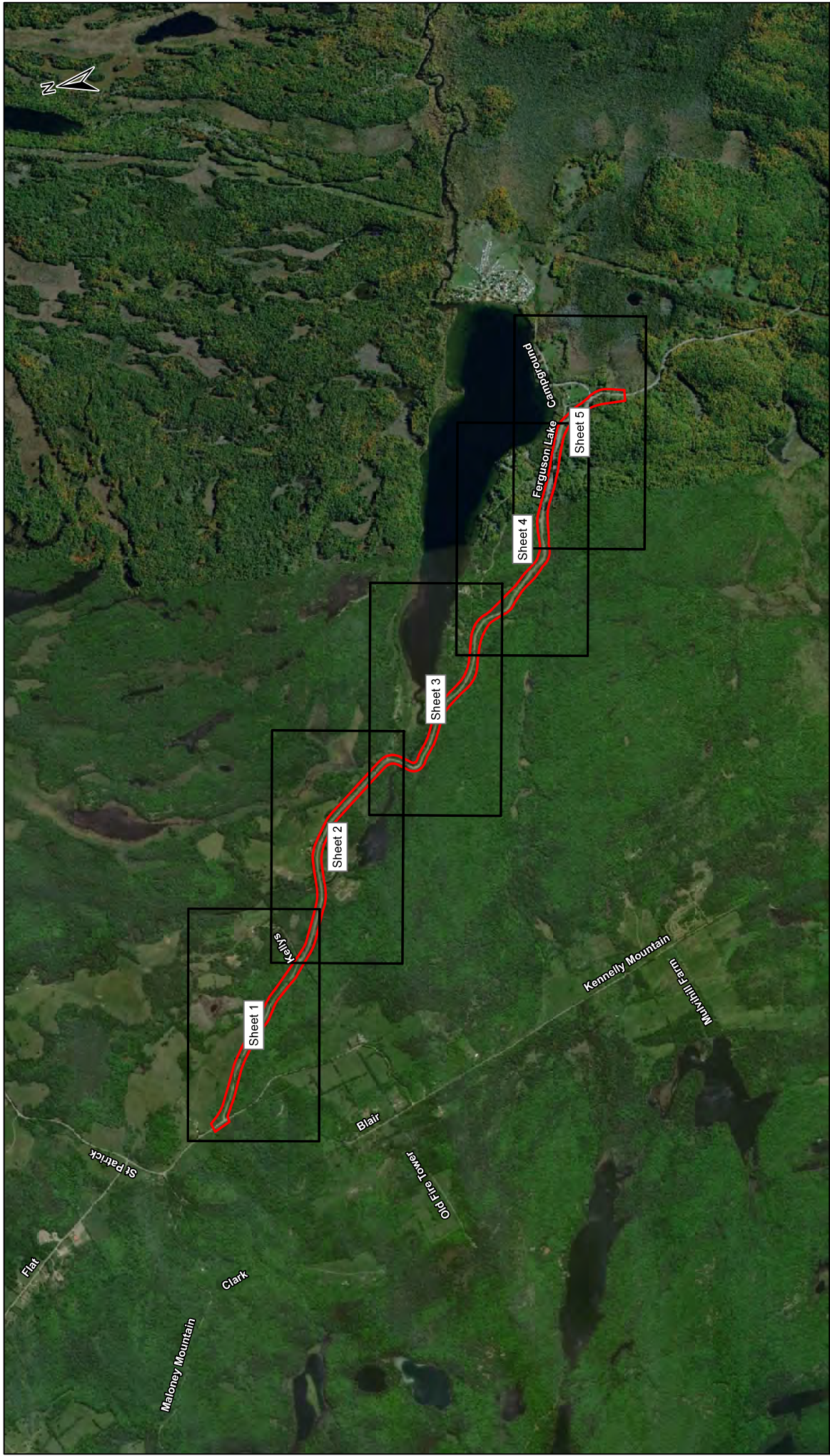
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DATE: 2020-07-20

DRAWN BY: ESB
FILE: 20EA_015_Historic



STUDY AREA
MAP SHEET

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Geographics, CNES/Airbus DS, USDA, USGS,
AeroGRID, IGN, and the GIS User Community
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DATE: 7/27/2023 FILE: 2024-015_Sheet_1_results

Figure 7: Fergusson Lake Road - Results of Stage 1 (key Map)

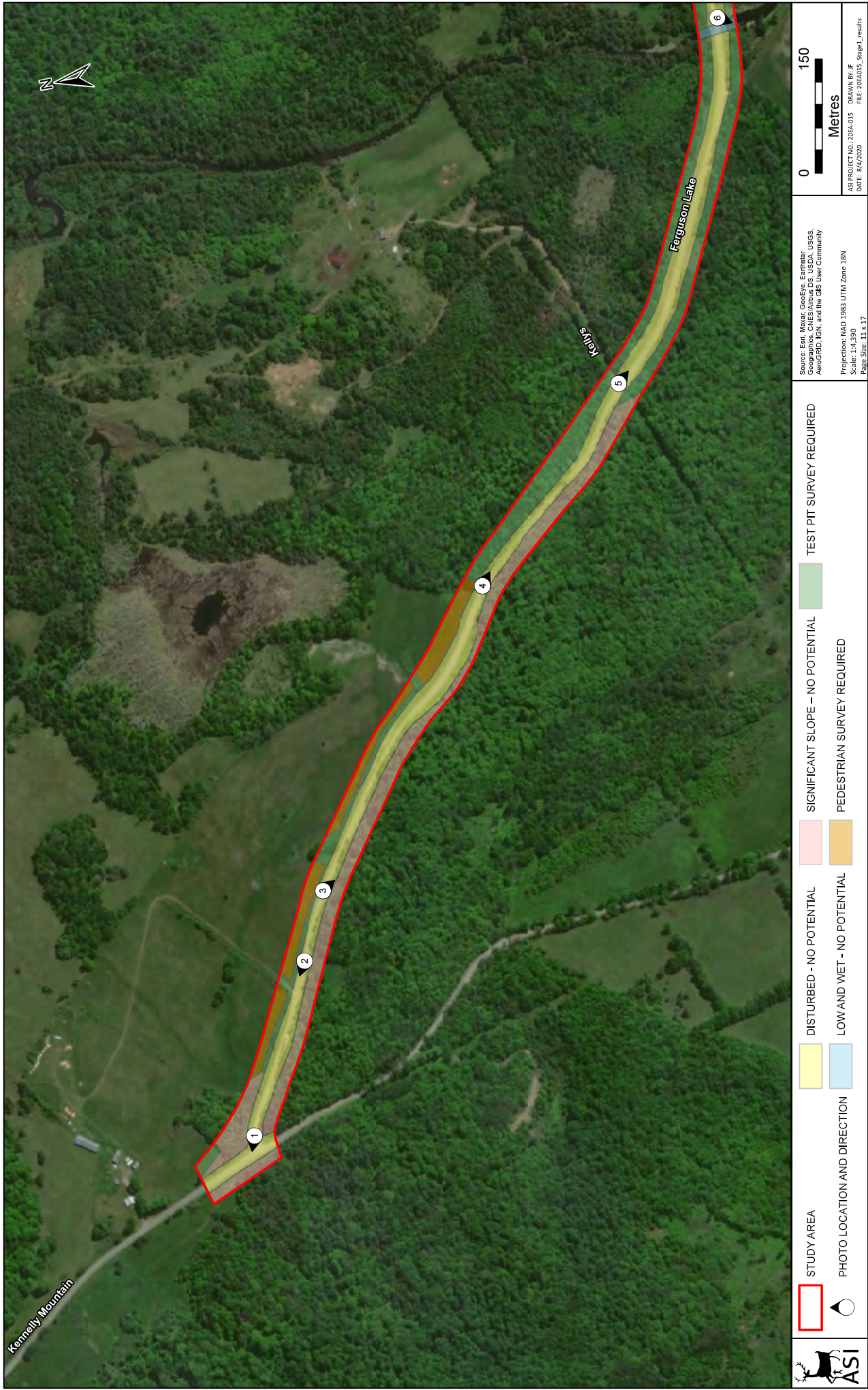


Figure 8: Fergusson Lake Road - Results of Stage 1 (Sheet 1)



Figure 9: Ferguson Lake Road - Results of Stage 1 (Sheet 2)



Figure 10: Ferguson Lake Road - Results of Stage 1 (Sheet 3)



Figure 11: Ferguson Lake Road - Results of Stage 1 (Sheet 4)



Figure 12: Ferguson Lake Road - Results of Stage 1 (Sheet 5)

8.0 IMAGES



Plate 1: Ferguson Lake Road towards Kennelly Mountain Road; Area is disturbed and sloped, no potential



Plate 2: Ferguson Lake Road; Area east of road requires Stage 2 pedestrian survey and test pit survey



Plate 3: Ferguson Lake Road; Area east of road requires Stage 2 pedestrian survey and test pit survey



Plate 4: Ferguson Lake Road; Area east of road requires Stage 2 test pit survey



Plate 5: Ferguson Lake Road; Treed areas adjacent road ROWs require Stage 2 test pit survey



Plate 6: Double culverts at Constant Creek; Area is disturbed and low and wet, no potential



Plate 7: Ferguson Lake Road; Area is sloped, no potential



Plate 8: Ferguson Lake Road; Agricultural field requires Stage 2 pedestrian survey



Plate 9: Ferguson Lake Road; Treed lands adjacent disturbed ROWs require Stage 2 test pit survey

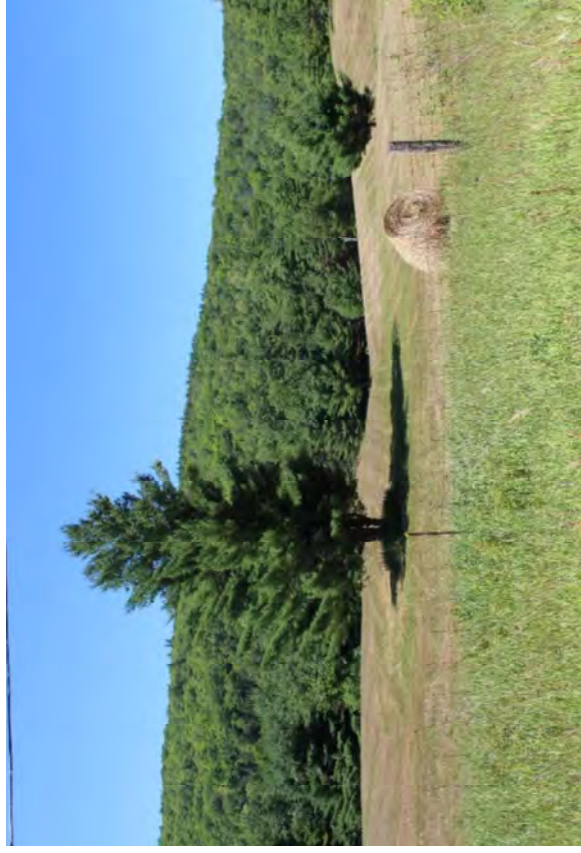


Plate 10: Ferguson Lake Road; Agricultural field requires Stage 2 pedestrian survey



Plate 11: Ferguson Lake Road; Agricultural field and treed lands require Stage 2 pedestrian survey and test pit survey respectively



Plate 12: Ferguson Lake Road; Area is disturbed and sloped, no potential



Plate 13: Ferguson Lake Road at Constant Creek bridge; Treed area beyond creek requires Stage 2 test pit survey



Plate 14: Ferguson Lake Road; Area beyond disturbed ROW requires Stage 2 test pit survey



Plate 15: Ferguson Lake Road; Area east of disturbed road ROW requires Stage 2 test pit survey

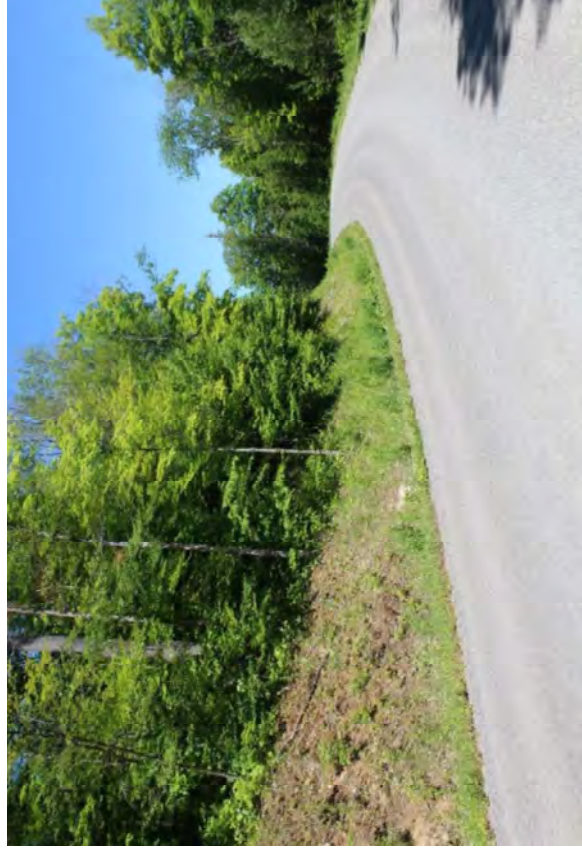


Plate 16: Ferguson Lake Road; Area is disturbed and sloped, no potential



Plate 17: Ferguson Lake Road; Area is disturbed and sloped, no potential



Plate 18: Ferguson Lake Road; Area is disturbed and sloped, no potential

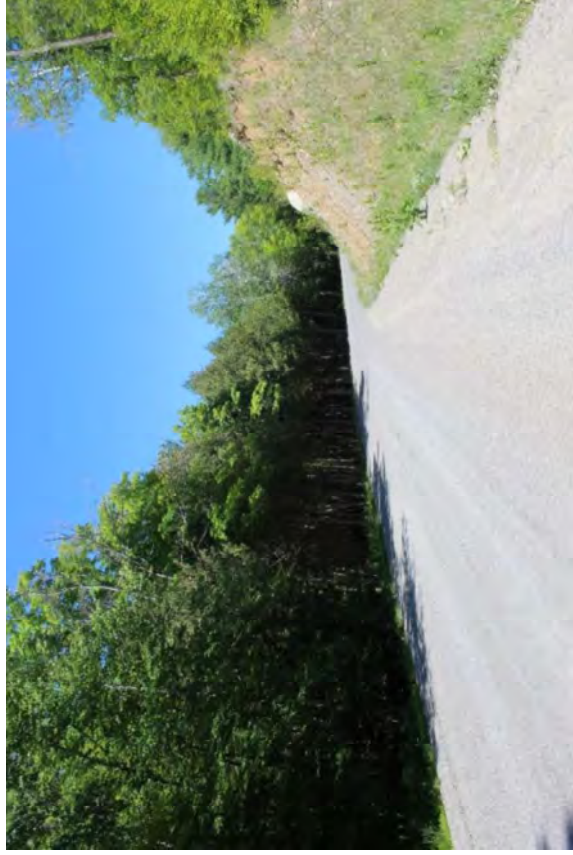


Plate 19: Ferguson Lake Road; Area is disturbed and sloped, no potential



Plate 20: Ferguson Lake Road; Area is disturbed and sloped, no potential



Plate 21: Ferguson Lake Road; Area beyond disturbed ROW requires Stage 2 test pit survey

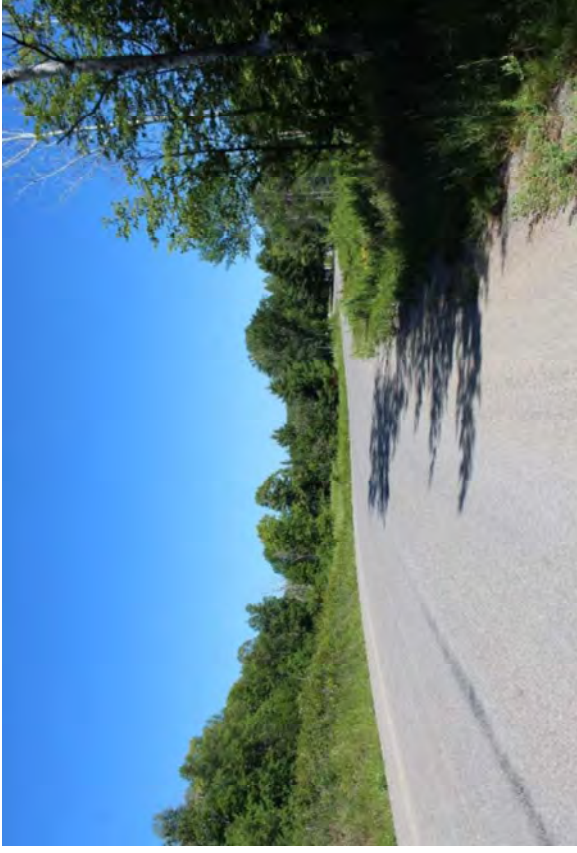


Plate 22: Ferguson Lake Road; Area east of disturbed ROW requires Stage 2 test pit survey



Plate 23: Ferguson Lake Road; Area east of disturbed ROW requires Stage 2 test pit survey



Plate 24: Ferguson Lake Road; Area east of disturbed ROW requires Stage 2 test pit survey



COUNTY OF RENFREW

Active Transportation Strategy

(Adopted May 2012; Revised September 27, 2017)

1.0 RATIONALE FOR AN ACTIVE TRANSPORTATION STRATEGY

As the largest geographical county in Ontario, roads and trails in Renfrew County connect our natural and built environments, thereby providing an opportunity for collaborative action that improves our health, well being and overall quality of life through the transportation, land use and planning sectors.

An increasing base of evidence links our health, community health, economic growth, social well-being and environmental benefits to regions that support active transportation. Infrastructure that promotes increased opportunities for physical activity such as bicycling and walking are clearly in the public interest.

1.1 WHAT IS AN ACTIVE TRANSPORTATION STRATEGY?

An Active Transportation Strategy is a documented strategy that provides a long-term vision for active transportation infrastructure and policies. It contributes to the physical, social, economic and health of a community where motorists, pedestrians, cyclists and community leaders share a common vision.

An Active Transportation Strategy identifies links to, and extensions of, existing bikeways, trails, sidewalks and roads. It also creates new walking and cycling connections throughout and between communities. It includes plans for prioritizing network projects, determining appropriate levels of operation and maintenance/capital funding levels, reviewing current standards, by-laws and identifies public promotion and education.¹

Active Transportation is defined as any human powered (i.e., non-motorized) mode of transportation for **commuter** (purposeful) and **recreational** purposes. It involves movement from one destination to another for work, childcare, school, the store, community or neighbourhood destinations and recreation. It includes walking, running, cycling, in-line skating, skateboarding, non-motorized wheel chairing, skating, skiing, and canoeing/kayaking. Walking and cycling are the most common forms and can be combined with other modes.

Active Transportation traditionally takes place in two environment settings:

Built Environment refers to all human-made surroundings—the spaces where we live, work and play. The built environment includes tangible infrastructures, such as road systems, transportation networks, streets, parks, trails, businesses, schools, buildings and other infrastructure.

Natural Environment is made up of open natural spaces/land, waterways, parks, recreation areas, green spaces.² Natural spaces connect and include built environments that are essential for human and community health.³

1.2 BENEFITS OF THE RENFREW COUNTY ACTIVE TRANSPORTATION STRATEGY

- Contributes to a higher quality of life for Renfrew County residents.
- Increases opportunities for improved health and well being for everyone.
- Contributes to healthier and more active communities.
- Decreases pressure on our health care system.
- Improves public education and knowledge of the links between active transportation, health, community well-being and improved quality of life.
- Increases community partnerships, engagement and social connections.
- Improves safety on and around roads and community spaces (decreases transport injuries and falls).
- Defines routes and possibilities for non-motorized commuting options.
- Contributes to economic development and a stronger economy (cycle tourism, trails, local business use, enhanced commuter and recreational use by residents and style of living appealing to many prospective new residents, productivity).
- Supports the provision of accessible infrastructure.
- Contributes positively to and connects us with the natural environment.
- Contributes to a reduction in greenhouse gas (GHG) emissions and to Canada's commitment to the Paris Accord.
- Integrates and links community and government initiatives such as walking and cycling routes to schools and trails investments.
- Establishes linkages with local heritage and cultural destinations.
- Improves recreational and commuter accessibility to people of all ages, abilities and income levels.
- Enhances intergovernmental collaboration around active transportation.
- Coordinates Renfrew County initiatives with the appropriate provincial strategies (i.e., CycleON- Ontario's Cycling Strategy).

1.3 INTEGRATION OF THE ACTIVE TRANSPORTATION STRATEGY WITH COUNTY PROGRAMS

The following identifies integration opportunities of an Active Transportation Strategy with existing County initiatives across four departments.

DEVELOPMENT AND PROPERTY

Forestry & GIS

- There are 240 km of trails currently under the County's jurisdiction. This infrastructure is designed and constructed to provide linkages to various trails and communities within the County.
- In response to increasing public demand for trail use, the County recognized an opportunity to optimize the use of the county's trail network by developing a Master Trail Strategy. There are currently 3,800 km of trails which fall under the jurisdiction of organizations other than the County of Renfrew.
- The County's GIS division plays an integral part in the mapping and displaying the trail information, and maintaining a current inventory of the linkages.

Ottawa Valley Economic Development

- Business opportunities for new investment (outfitters, bike repair, accommodations, special events and competitions, etc.).
- In-fill/downtown housing (Renfrew, Pembroke, Arnprior, and other).
- Commute-to-work options (livable/workable communities).
- Some "backroad" assistance to our smaller areas and very rural hamlets.
- Farm gate sales opportunities.
- Trail/Route construction and maintenance jobs.
- Improvements in employer/employee health due to access to outdoor facilities/opportunities.
- Enhanced style of living for prospective new residents and investors on par with or beyond urban centres.
- Desirable travel and recreation pathways to attract and retain residents.
- New product for tourism operators to utilize in marketing and to increase visitor satisfaction.
- A necessary component of a modern culture and community which will enhance attraction of new and young residents and investors.

- Commitment to this Active Transportation Strategy will demonstrate that there is a forward-looking and creative culture active in the County.
- This Active Transportation Strategy represents the most significant aspect of a healthy community.
- Provides a concrete manner in which to reduce the cost and burden on the County and municipalities of maintaining roads and transportation services.

Planning and Land Development

Policies promoting active transportation are included in the following sections of the County of Renfrew Official Plan through the five-year review process:

- » Section 2, General Development Policies;
- » Section 13, Transportation;
- » Section 14.4, Plans of Subdivision/Condominium; and
- » Section 16.5, Site Plan Control.

PUBLIC WORKS & ENGINEERING

- 820 km of arterial and collector roads currently under the County's jurisdiction. This infrastructure is designed and constructed to provide critical linkages to various communities within the County.
- Responding to increasing public demand for active transportation, there is an opportunity to optimize the use of the County's road network by developing and implementing a proactive Active Transportation Strategy that integrates with the department's 10 year capital program.
- The Active Transportation Strategy, in concert with other management plans, will develop policies and standards for active transportation needs in the County's multi-year capital works programs. This will include design standards and signage for designated active transportation infrastructure as well as policies for maintenance requirements and financial sustainability.
- The approved Asset Management Plan will serve as a foundation document to develop priority implementation strategies.
- Reduce congestion on roads and bridges.

EMERGENCY SERVICES

- Recognizing the ever-present pressures within the health care system and increased demand for Emergency Services, the County of Renfrew Paramedic Service is responding through their Community Paramedic Program.

- Community and industry partnerships are having a positive impact on morbidity and mortality rates.
- Aging at Home, Wellness Clinics, Heart Wise Exercise Program, defibrillation-CPR and Paramedic and Community Care Team programs represent innovative and valuable health promotion and illness prevention work.
- Transportation contributes to placing the Paramedic Service in the position of supporting the health needs of every local community in Renfrew County by encouraging exercise, promoting health resilience and creating a safer environment.
- In emergency situations, Paramedic Services will provide Patrol & Response Service to the trail network.

SOCIAL SERVICES

- Active transportation provides a viable alternative to more expensive proximity transportation for improved access between social housing and community services.
- Improves access to housing, community destinations and Ontario Works sites.
- Increases opportunities for health equity by improving access to physical activity, recreation, essential services and community destinations.
- Improved active transportation infrastructure supports increased physical activity and community engagement opportunities for children ages 0 to 6 in childcare settings.

2.0 GOALS AND OBJECTIVES

Renfrew County Active Transportation Strategy effects:

1. Develop County policy and a coordinated approach to Active Transportation.

- Development of land use (to be included in the Official Plan), transportation and other relevant public policies.
- Coordination of policy development with existing Operational Plans.
- Support economic development as a key component of an Active Transportation Strategy.
- Support and integrate with the County of Renfrew's Trail Strategy, and be complementary to associated trails management plans (K&P Trail, Algonquin Trail).
- Development of departmental policies and community programs that mirror approved active transportation objectives and implementation.

- Support willing partnerships with local level municipal leaders to enhance and build municipal capacity for active transportation planning, consultation and implementation.
 - Adoption and adaptation of detailed design guidelines for safe active transportation infrastructure.
 - Development of design guidelines for land use planning and site planning practices that encourage active transportation in Renfrew County. Integrate guidelines into the Operational Plan.
 - Promotion of Active Transportation components--including active transportation policies, programs and infrastructure at county events, buildings and facilities.
 - Research liabilities/legal requirements associated with the implementation of active transportation infrastructure.
 - Include liability and risk management education and knowledge sharing to ensure that stakeholders and elected officials share a common understanding of the real risks, the risk benefits and liability issues associated with active transportation.
- 2. Set measurable goals to guide the development of a safe, sustainable and coordinated active transportation network in Renfrew County.**
- Promote and enhance an inventory of trails, infrastructure and roads suitable for active transportation based on existing reports, community input and GIS mapping.
 - Commit to measurable, achievable targets and goals on the status of active transportation and infrastructure development (eg: hardened shoulders, hardened trailways, connected pathways, signs, etc.).
- 3. Promote and build safe and connected active transportation networks for all residents and visitors to Renfrew County.**
- Review County's multi-year road and trails program to determine feasibility/impacts of providing for active transportation infrastructure. Emphasis will be given to the Algonquin Trail and to priority road networks.
 - Support policy that requires active transportation infrastructure to be considered in all future Renfrew County projects.
 - Develop benchmark costs for active transportation infrastructure.
 - Develop an active transportation tourism policy and plan in collaboration with Economic Development and the Ottawa Valley Tourist Association.
 - Maximize the use of Provincial and Federal funding opportunities.
- 4. Explore opportunities to raise awareness and support knowledge sharing and events that help County of Renfrew residents to choose safe active transportation options more often.**

- Allocate resources for improvements to active transportation infrastructure.
 - Actively partner and collaborate with the Physical Activity Network, Healthy Community Partnership, private businesses, school boards, Renfrew County social service organizations and schools to coordinate the Active Transportation Strategy with existing trail, cycling and walking initiatives.
 - Support the existing initiative on school travel planning to include all student travel requirements and to include active modes of transportation.
 - Work with local stakeholders, networks and provincial organizations to introduce and improve cycling and road sharing educational opportunities in Renfrew County.
- 5. Establish a framework to sustain the Active Transportation Strategy in Renfrew County.**
- Continue to collaborate with the existing Physical Activity Network and the Ottawa Valley Cycling and Active Transportation Alliance as the champions for Active Transportation.
 - Integrate active transportation opportunities into multiple sectors, programs and levels of government.
 - Explore and actively pursue all relevant funding opportunities, through various levels of government and community partnerships.
 - Identify current, or other, organizations whose mandate addresses or contributes to active transportation.

3.0 STRATEGY FRAMEWORK

The following visual framework outlines the flow and process that will be followed for the development of the Active Transportation Strategic process. It is consistent with standard, evidence based models that are being implemented across Ontario and Canada in both rural and urban regions.

framework



4.0 STRATEGY LINKAGES

The Renfrew County Active Transportation Strategy will link with several other County strategies (as amended) including, but not limited to: County of Renfrew Strategic Plan, County of Renfrew Trails Strategy, Ottawa Valley Economic Development Strategic Plan, County of Renfrew Asset Management Plan, CycleON- Ontario Cycling Strategy, Voyageur Discovery Routes Strategic Plan, and the County of Renfrew Official Plan.

5.0 PROMOTION AND EDUCATION PROGRAM

Building on existing initiatives and ongoing community engagement, promotion, education and awareness of the County's commitment to the benefits of Active Transportation provides a foundation for the successful implementation of the strategy. Education and promotions will be integrated with existing department initiatives and coordinated with community lead programs that support active and safe routes to school, active commuting, road safety, and public health initiatives. Education and knowledge sharing will address benefits of liability and risk issues associated with upper and lower tier municipal involvement in active transportation initiatives and infrastructure enhancement.

6.0 COMMUNITY ENGAGEMENT AND CONSULTATION

The Renfrew County Active Transportation Strategy was originally developed in consultation with the expertise and community input of the Physical Activity Network and the Active Transportation working group. The consultation process included more than 150 multi sector community stakeholders committed to building opportunities for more active and healthy residents and visitors in Renfrew County. The working committee of 25+ active users of our road, trail and waterway systems represent a wide and geographically balanced group of stakeholders.

The Strategy was presented and adopted by County Council in May 30, 2012.

7.0 MONITORING PROGRAM

An Active Transportation Strategy monitoring program will be identified and achieved in coordination with standardized health indicators, traffic, connectivity, road safety and injury prevention statistics. Local data will be collected and integrated into an approved evaluative method.

Connectivity is the measure of the efficiency of a transportation network. It refers to the directness of transportation links and the number of connections in the path or road network. Linkages between communities is a priority and will be a strong indicator for monitoring of the Active Transportation Strategy.

8.0 HARDENED SHOULDERS/HARDENED TRAILWAYS

Since 2010, the County of Renfrew has embarked on a program of hardening shoulders on County Roads, in conjunction with the annual road rehabilitation program. This program has added a minimum of one (1) metre to the road surface width, allowing for movement that is potentially removed from the main flow of traffic. At the same time, it has lessened deterioration from edge breaking. In every situation, this effort has proven popular with local residents for walking and cycling. By the end of 2016, the County's road network includes approximately 172 km on which hardened shoulders have been provided.

The K&P Trail, an abandoned 21 km former rail corridor that stretches from Calabogie to Renfrew, currently enjoys 14 km of hardened trailway. The application of limestone dust has created an environment that allows cycling, walking and non-motorized activities to co-exist with motorized summer and winter recreational activities. Enhancements to the K&P Trail will continue as the link to the Algonquin Trail will be made at the intersecting point in Renfrew, in 2017.

Beginning in 2017, the abandoned CP Rail corridor that was purchased by the County of Renfrew, now named the Algonquin Trail and forms the County portion of the Ottawa Valley Recreation Trail that stretches from Smiths Falls to near Mattawa, will begin to see improvements made. Surface improvements are planned for 2017 that would involve the application of limestone dust, similar to the practice along the K&P Trail, in the more urban centres of the County. Upgrades to sections of the trail will continue annually as funding allows. Paved trailways and/or twinned trailways will be considered where and when appropriate and funding allows.

9.0 PRIORITIES

The County of Renfrew will endeavour to focus on the following main priorities for active transportation, and will pursue as funding is available and allocated:

- Hardened shoulder program continuation each year where appropriate;
- Upgrades and hardened surface application to the Algonquin Trail in urban centres

(2017-2018);

- Surface improvements to the Algonquin Trail (2018-2027), which may include paved sections to facilitate commuter cycling, rollerblading, wheelchair accessibility;
- Hardened surface improvements to the K&P Trail (2017-2021).

All of these improvements will help facilitate active transportation. These improvements, along with local municipal active transportation projects, will continue to showcase the County of Renfrew as a leader in active transportation.

10.0 WORKPLAN

Appendix #1 (MAP OF COMPLETED AND CONTEMPLATED WORKS)

REFERENCES

1. Bergeron, K. and Cragg, S. (2009). *Making the Case for Active Transportation: Bulletin #8—Role for Municipal Decision Makers*. Canadian Fitness and Lifestyle Research Institute, Ottawa, Canada.
2. Bergeron, K. (2009), *Bridging the Terminology Gap in Support of Active Communities: Land Use Planners and Public Health Professionals*.
3. Kuo, F. (2010) *Parks And Other Green Environments: Essential Components of a Healthy Human Habitat*.
4. *Healthy, Equitable Transportation Policy, Recommendations and Research*. (2011) PolicyLink, Prevention Institute, Convergence Partnership.
5. Bergeron, K. & Cragg, S. (2009). *Making the Case for Active Transportation: Bulletin #3—Economic Benefits*. Canadian Fitness and Lifestyle Research Institute, Ottawa, Ontario.
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7. Transport Canada (2006). *Sustainable transportation in small and rural communities*. Issue Paper 61. 8. *Healthy, Equitable Transportation Policy, Recommendations and Research*. (2011) Policy Link, Prevention Institute, Convergence Partnership.
8. *2012 Benchmarking Report—Alliance for Biking and Walking*. 10. *Active Transportation in Canada—a Resource and Planning Guide*, Ministry of Transport, Public Works and Government Services Canada. (2010) Retrieved from https://www.fcm.ca/Documents/tools/GMF/Transport_Canada/ActiveTranspoGuide_EN.pdf .
9. *Communities in Motion*, Federation of Canadian Municipalities. (2008). Retrieved from https://fcm.ca/Documents/tools/GMF/Communities_in_motion_en.pdf

APPENDICES

Map of Active Transportation Identified Routes

Appendix D





June 14, 2021

Township of Greater Madawaska
19 Parnell Street
PO Box 180
Calabogie, Ontario
K0J 1H0
C/O
Greenview Environmental Management

**Attention: Tyler Peters, P.Eng.
Project Manager**

Re: Ferguson Lake Road Preliminary Design Brief

WSP has been retained by Greenview Environmental Management to complete the preliminary and detailed design of the Ferguson Lake Road Reconstruction Project. With direction from Township Council, a 60km/hr design speed has been accommodated South of the bridge over Constant Creek and a 70km/hr design speed has been accommodated North of the bridge. Improved signage and pavement markings will be included to assist the travelling public with identifying this shift in allowable speed along the corridor.

Location:

The southern construction limit is approximately 250m South of Campground Sideroad and the northern limit is the intersection of Ferguson Lake Road and Kennelly Mountain Road creating a project length of 5.7km. A 1.1km section of recently rehabilitated roadway in the middle of the project limits will be subject to platform widening to provide 1.0m partially paved shoulders.

Purpose:

The purpose of this project is to completely rehabilitate the roadway with improvements to drainage, granular base, and driving surface throughout the corridor to provide a safe and smooth platform for the travelling public.

The Township has identified this as a high-priority project due to existing road conditions with advancing deterioration, anticipated increases in traffic related to residential development, and relatively heavy truck traffic related to timber harvesting. Strengthening of the roadway structure will be provided as a result with recommendations provided through a geotechnical investigation and analysis.

Project Snapshot:

The road design will be in accordance with the Geometric Design Guide for Canadian Roads, Transportation Association of Canada (TAC), June 2017 and the Ministry of Transportation Ontario (MTO) Supplement, May 2020 as applicable and relevant.



The work of this contract will include:

- In-Place Processing of existing surface treatment and gravel base to 150mm depth
- Horizontal and vertical alignment improvements – 60km/hr and 70km/hr design speeds
- Widening of the roadway platform – 3.3m lanes with 1.0m partially paved shoulders throughout
- Super-elevation provided – Maximum 6.0% throughout
- Strengthening of the road surface, base and sub-base with Hot Mix Asphalt, Granular 'A' and 'B'
- Improved ditching and drainage throughout
 - Crossing and entrance culvert replacements
- Improved roadside safety (guiderail) and side slopes where feasible
- Relocation of utilities as required
- Adherence to newly established legal property boundaries

Traffic Impact:

Annual Average Daily Traffic (AADT) has been provided by the Township as 280 vehicles with 15% Truck Traffic. It has been identified by the Township that significant increases to Traffic are anticipated in the near future.

Construction Staging:

It is anticipated that traffic will generally be maintained with construction staged through single lane, short term, daytime lane closures causing relatively short delays to motorists throughout the project. Access to local driveways will be maintained and notice provided in advance of any work.

Construction Schedule:

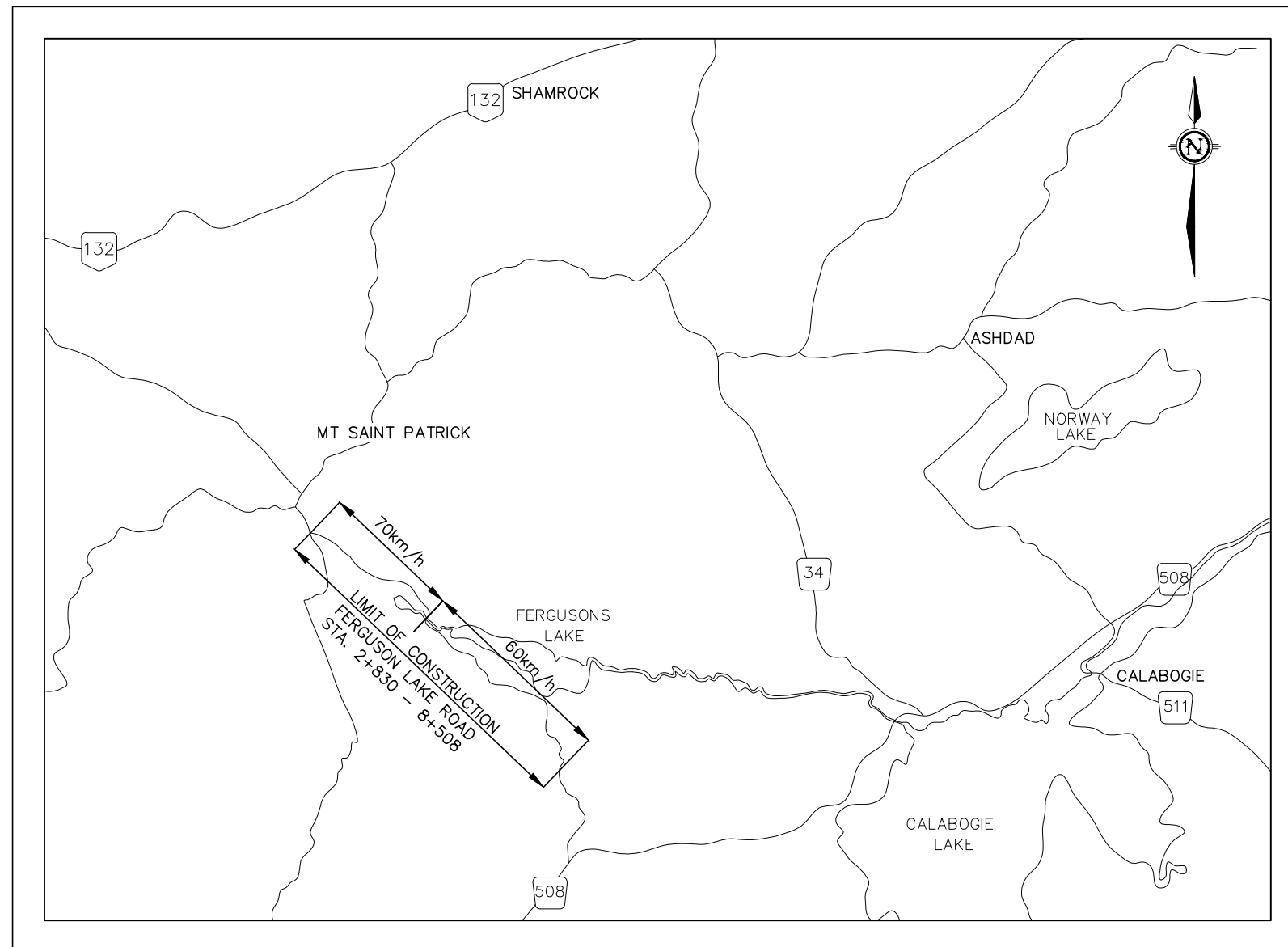
It is anticipated that construction will require one full construction season, starting in May 2022 and be completed in the fall of 2022.

WSP is approved by MTO to perform preliminary and detailed design of arterial highways and roads for construction tendering. This project is being designed and reviewed by no fewer than two (2) licensed Professional Engineers with established experience in the province of Ontario.

Andrew Mansfield, P.Eng., PMP
Manager, Highways

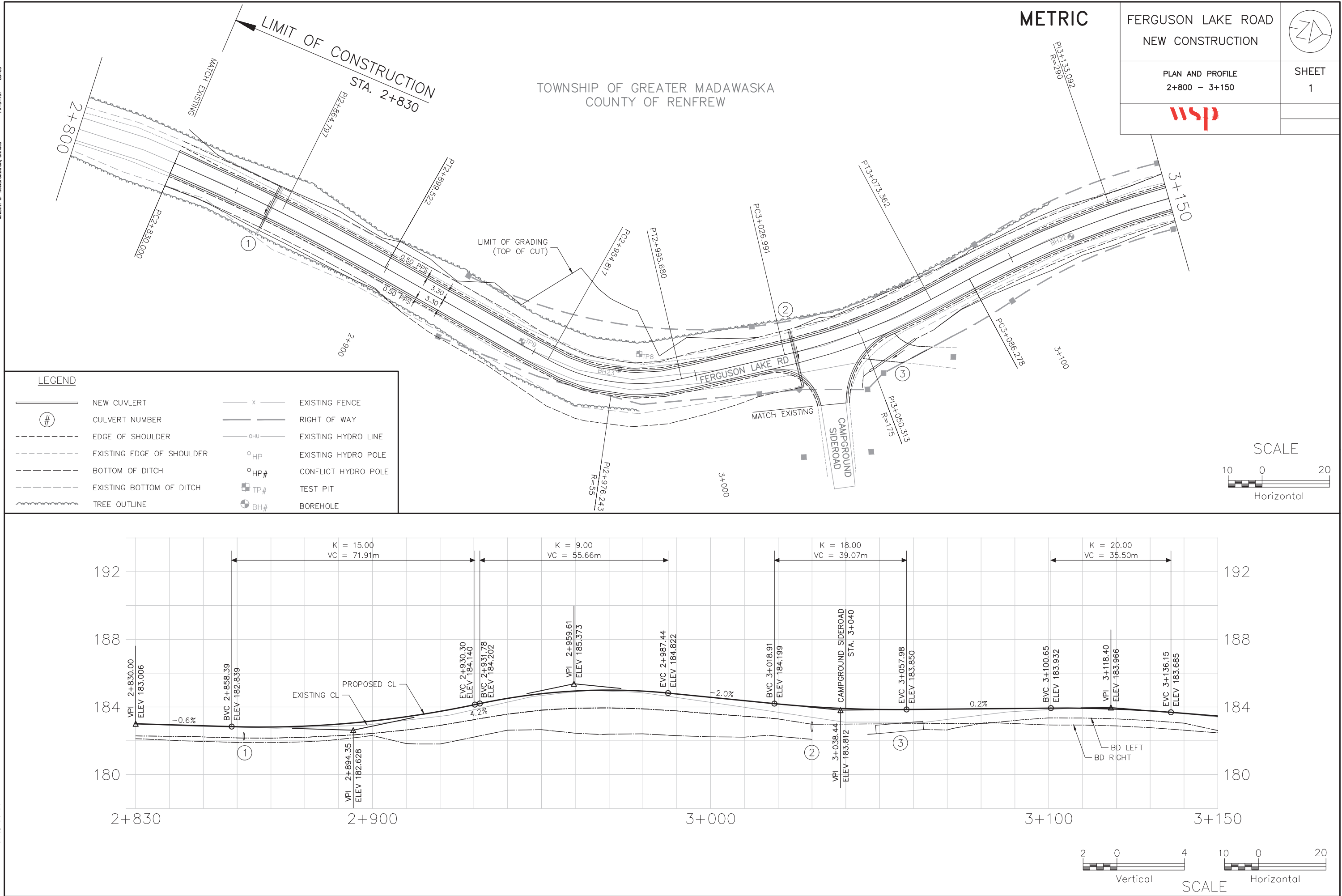


CONTRACT DRAWINGS
RECONSTRUCTION OF FERGUSON LAKE ROAD (PHASE 1)
PRELIMINARY DESIGN



KEY PLAN
N.T.S.





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MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

TOWNSHIP OF GREATER MADAWASKA
COUNTY OF RENFREW

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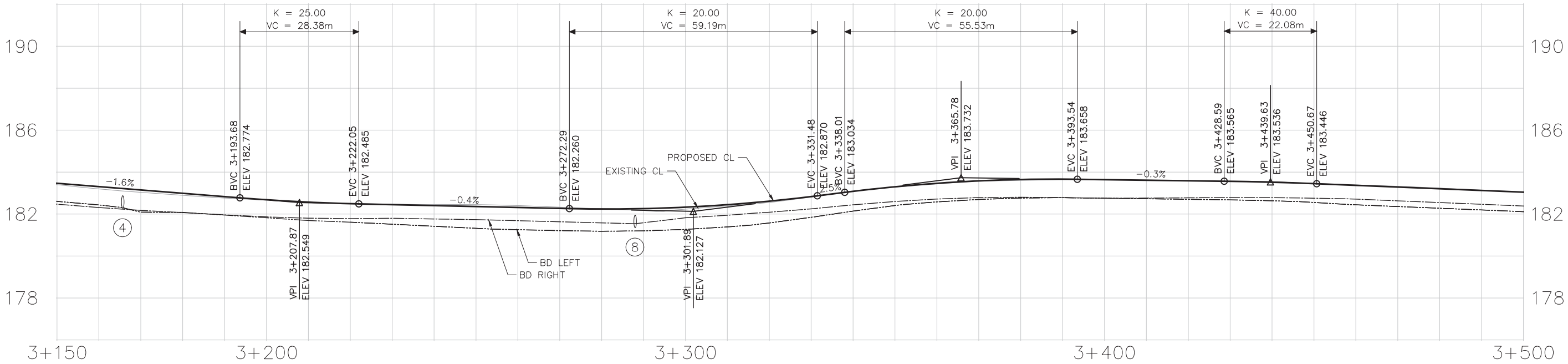
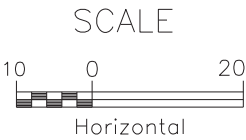
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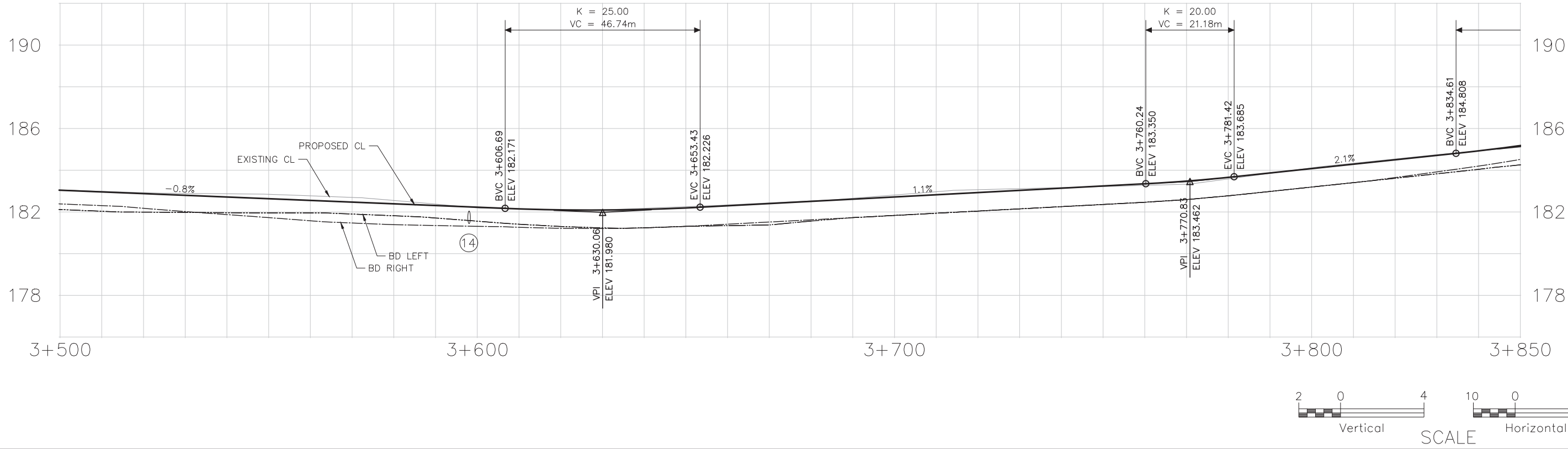
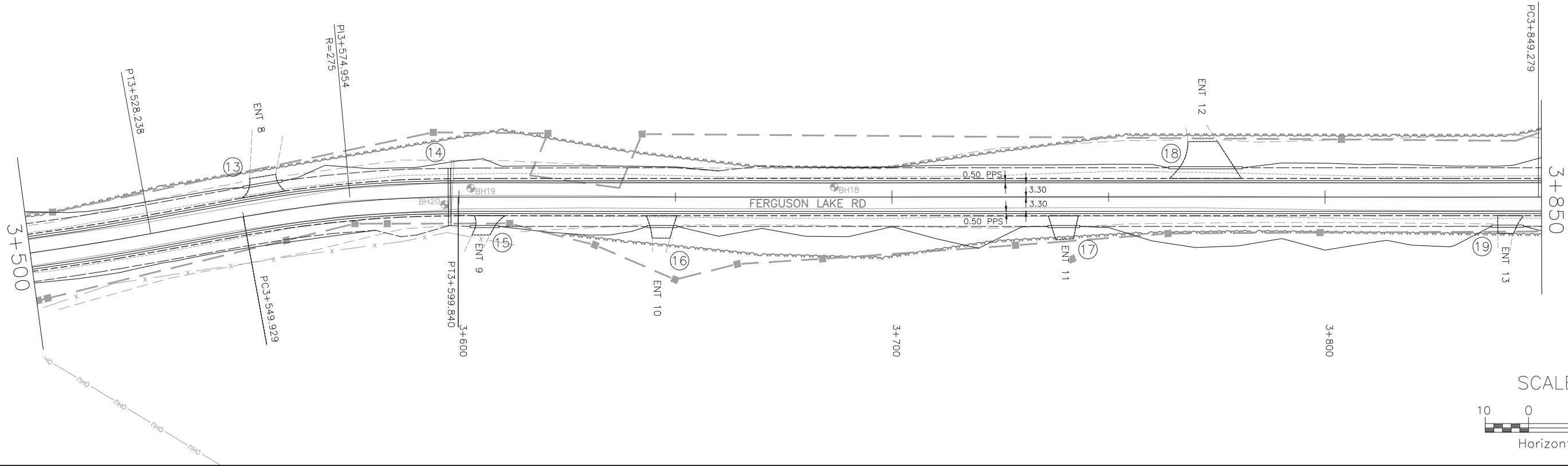
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COUNTY OF RENFREW



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COUNTY OF RENFREW

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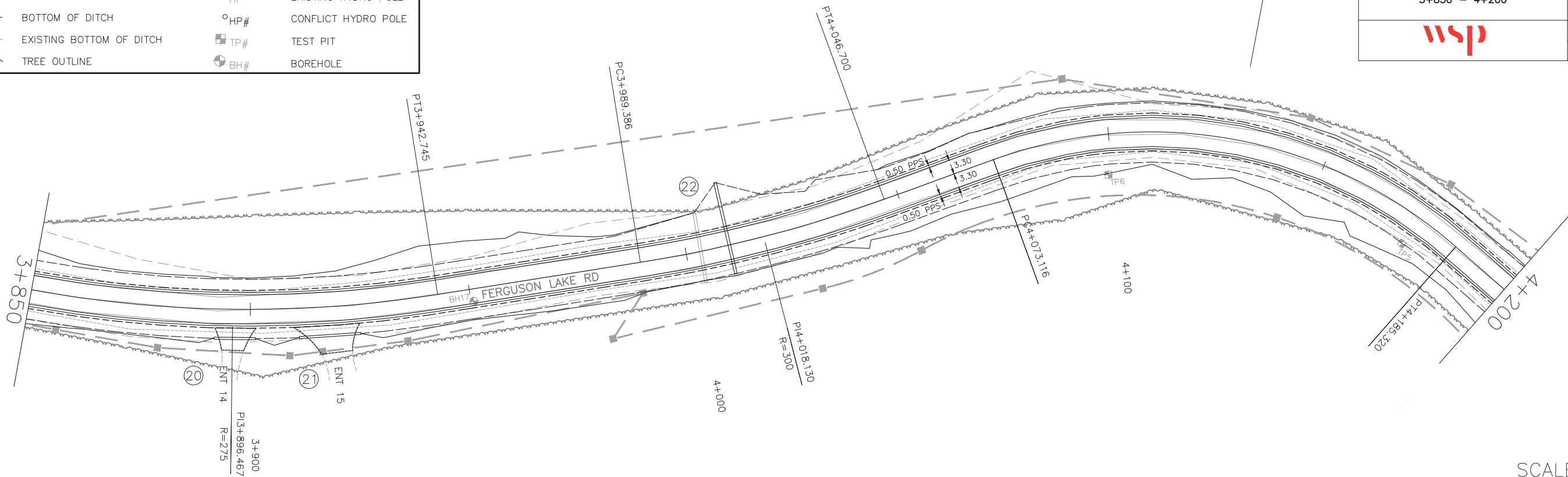
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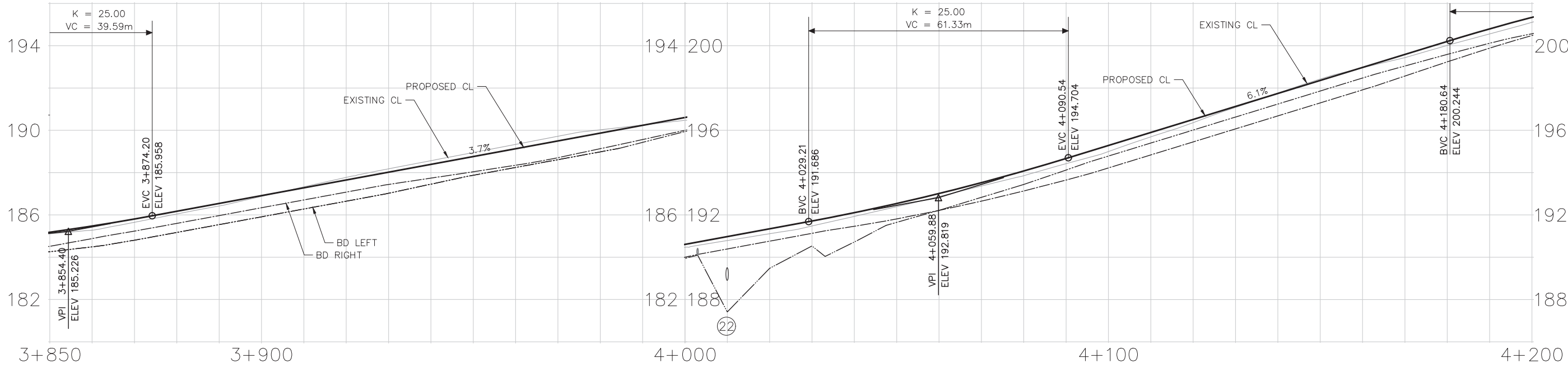
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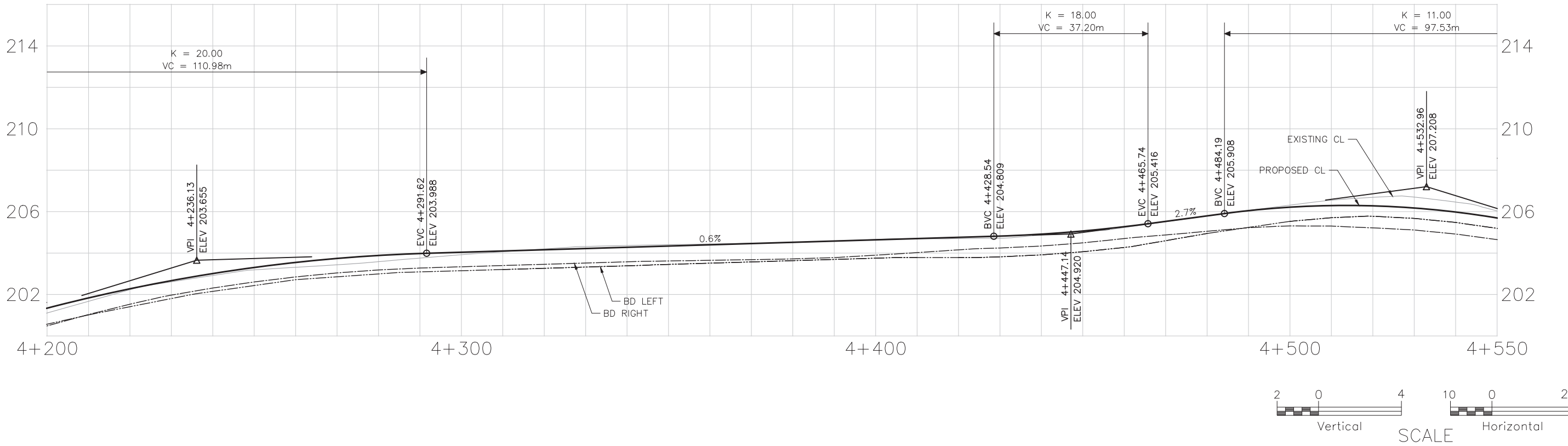
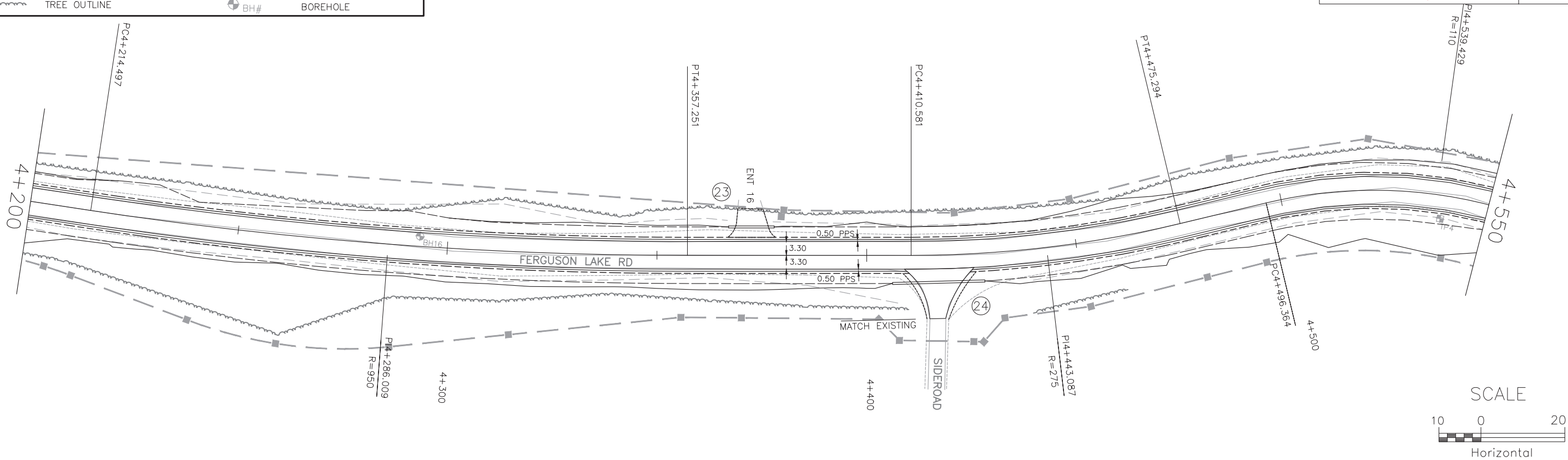
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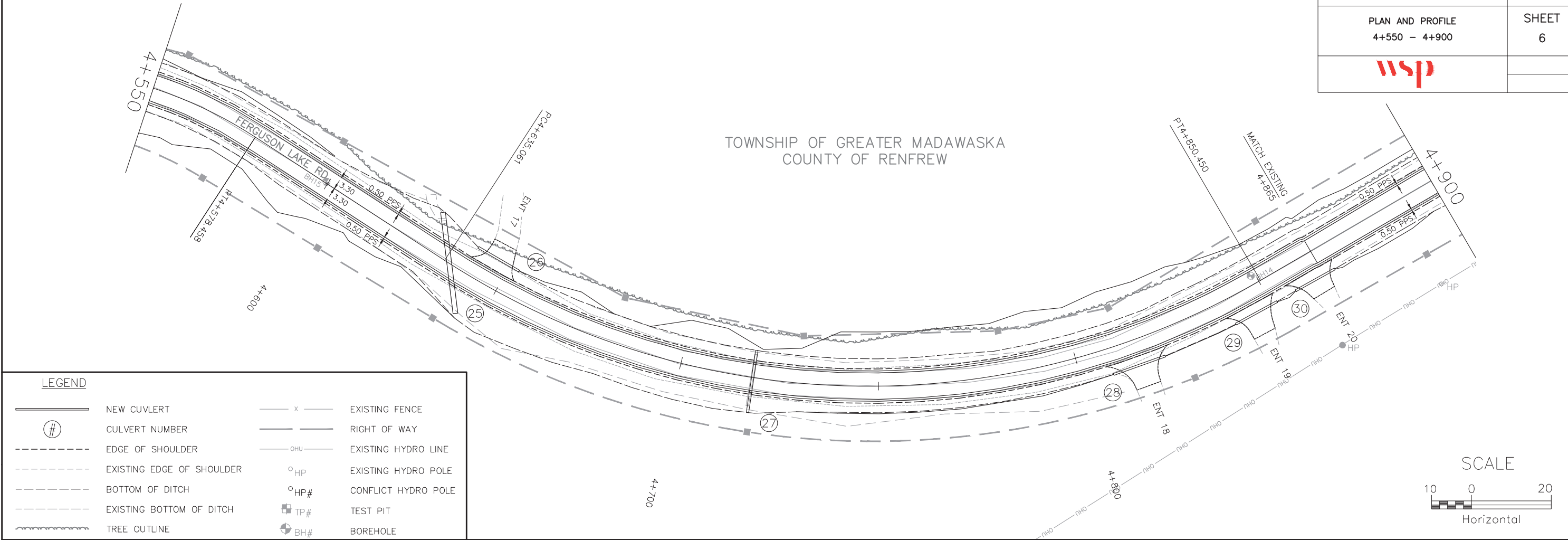
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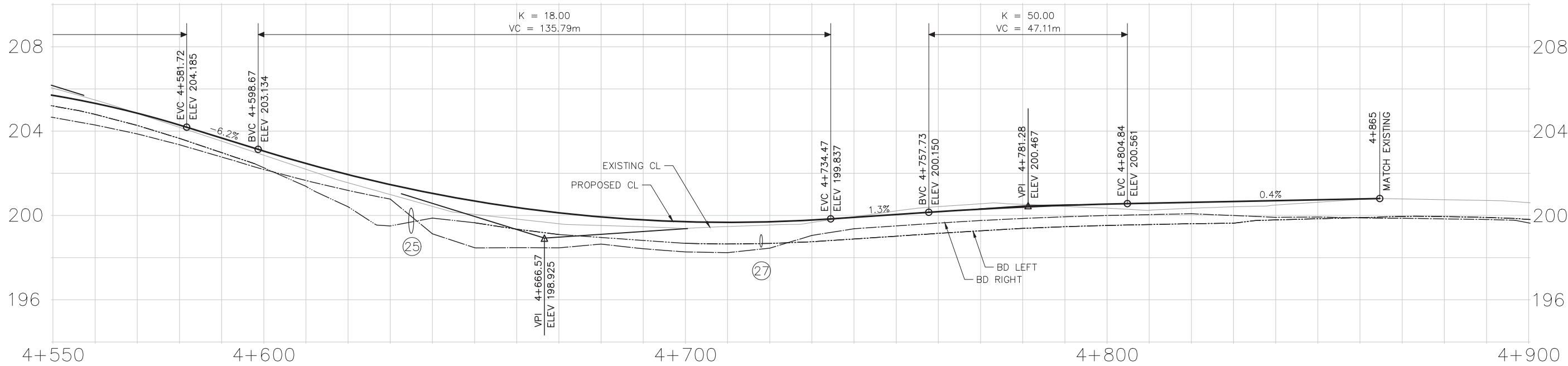
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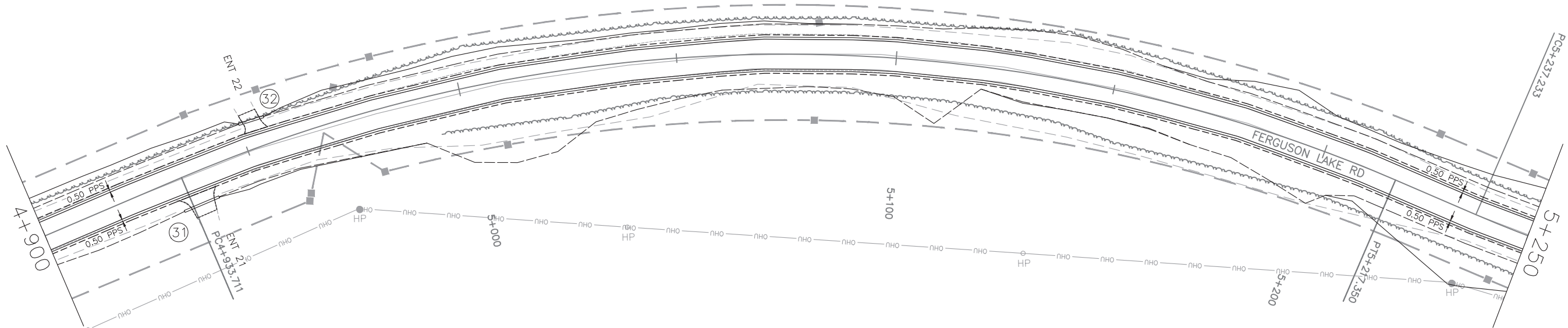
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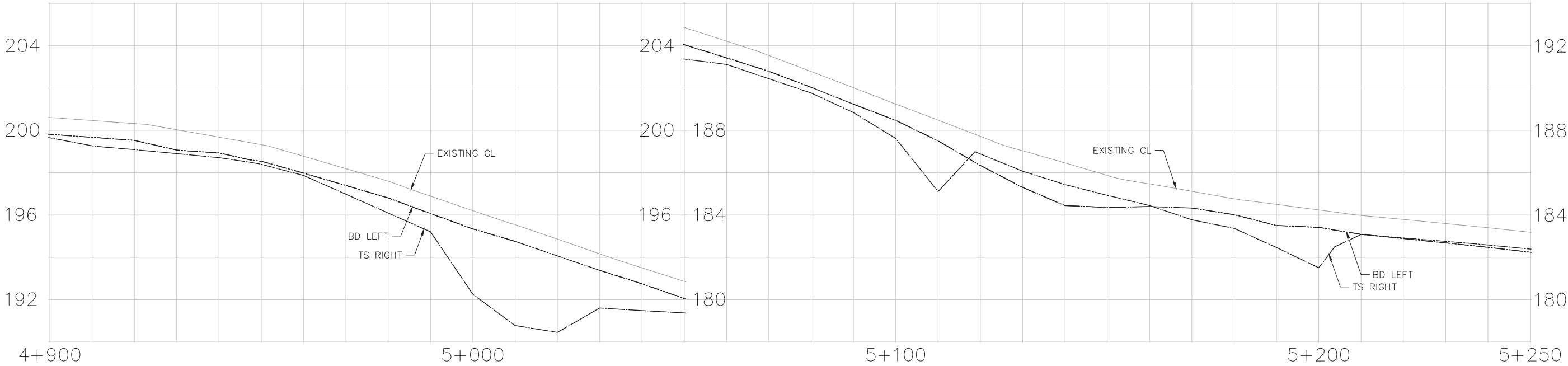


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COUNTY OF RENFREW

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PR-D-707 88-05

LEGEND

	NEW CUVLERT		EXISTING FENCE
	CULVERT NUMBER		RIGHT OF WAY
	EDGE OF SHOULDER		EXISTING HYDRO LINE
	EXISTING EDGE OF SHOULDER		EXISTING HYDRO POLE
	BOTTOM OF DITCH		CONFLICT HYDRO POLE
	EXISTING BOTTOM OF DITCH		TEST PIT
	TREE OUTLINE		BOREHOLE

TOWNSHIP OF GREATER MADAWASKA
COUNTY OF RENFREW

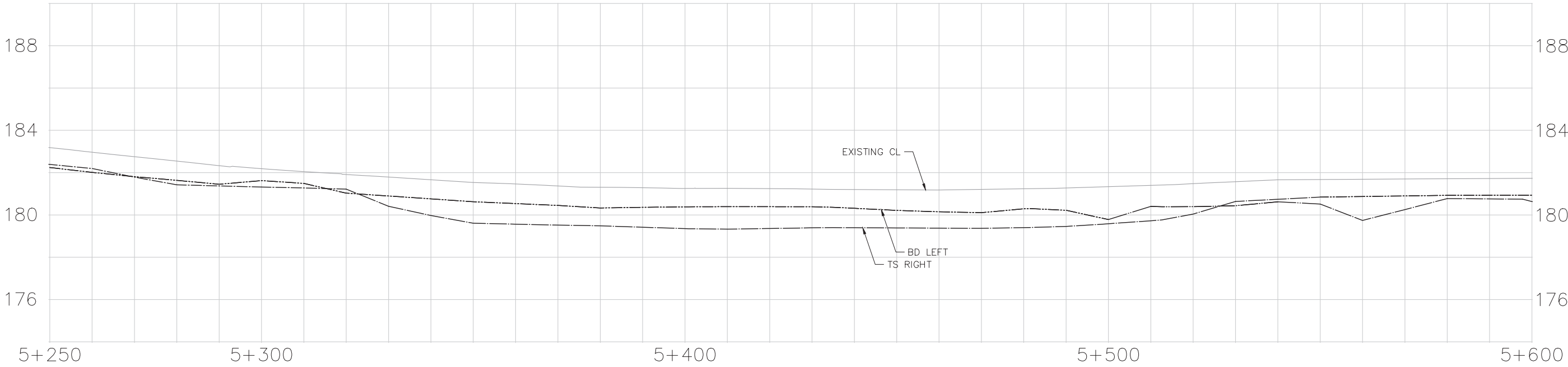
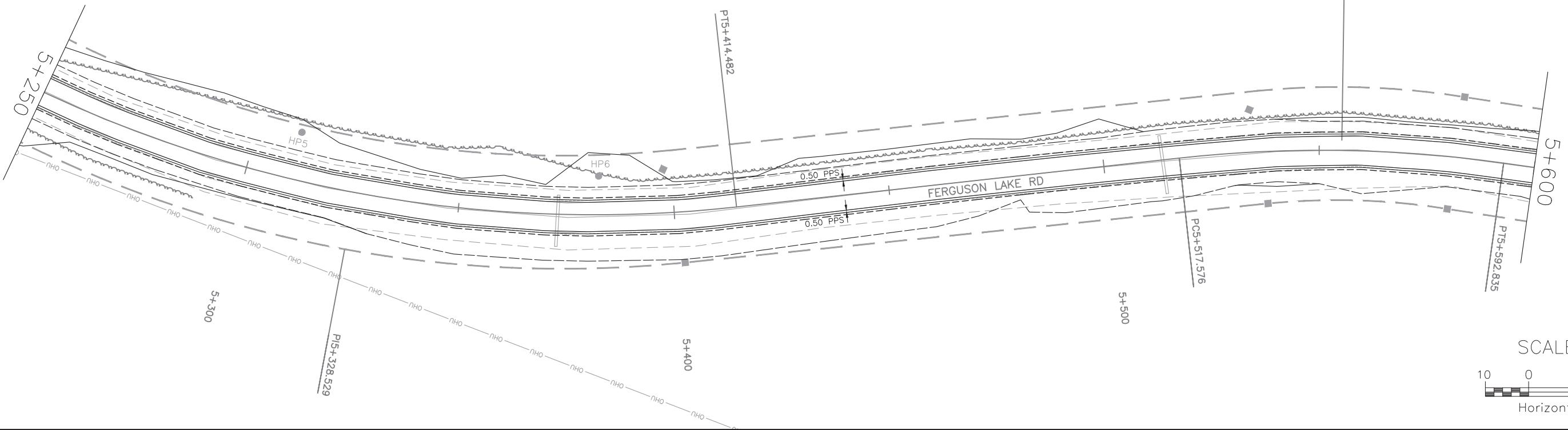
METRIC

FERGUSON LAKE ROAD
NEW CONSTRUCTION

PLAN AND PROFILE
5+250 - 5+600



SHEET
8



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DRAWN BY: Howe, Jordan

MODIFIED: 6/8/2021 11:53 AM PLOTTED: 6/9/2021 12:09 PM

PR-D-707 88-05
MINISTRY OF TRANSPORTATION, ONTARIO

LEGEND

- | | | | |
|--|---------------------------|--|---------------------|
| | NEW CUVLERT | | EXISTING FENCE |
| | CULVERT NUMBER | | RIGHT OF WAY |
| | EDGE OF SHOULDER | | EXISTING HYDRO LINE |
| | EXISTING EDGE OF SHOULDER | | EXISTING HYDRO POLE |
| | BOTTOM OF DITCH | | CONFLICT HYDRO POLE |
| | EXISTING BOTTOM OF DITCH | | TEST PIT |
| | TREE OUTLINE | | BOREHOLE |

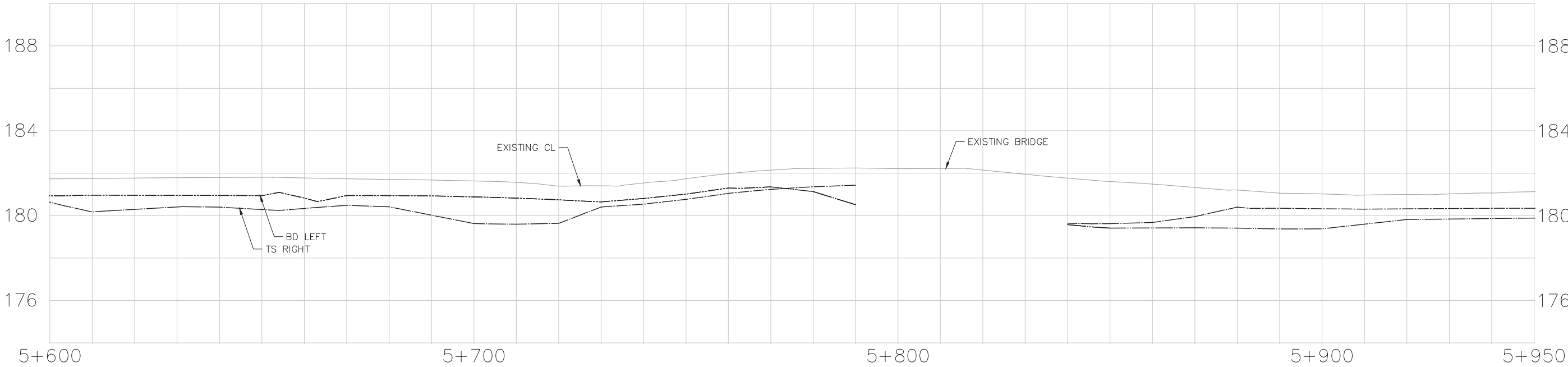
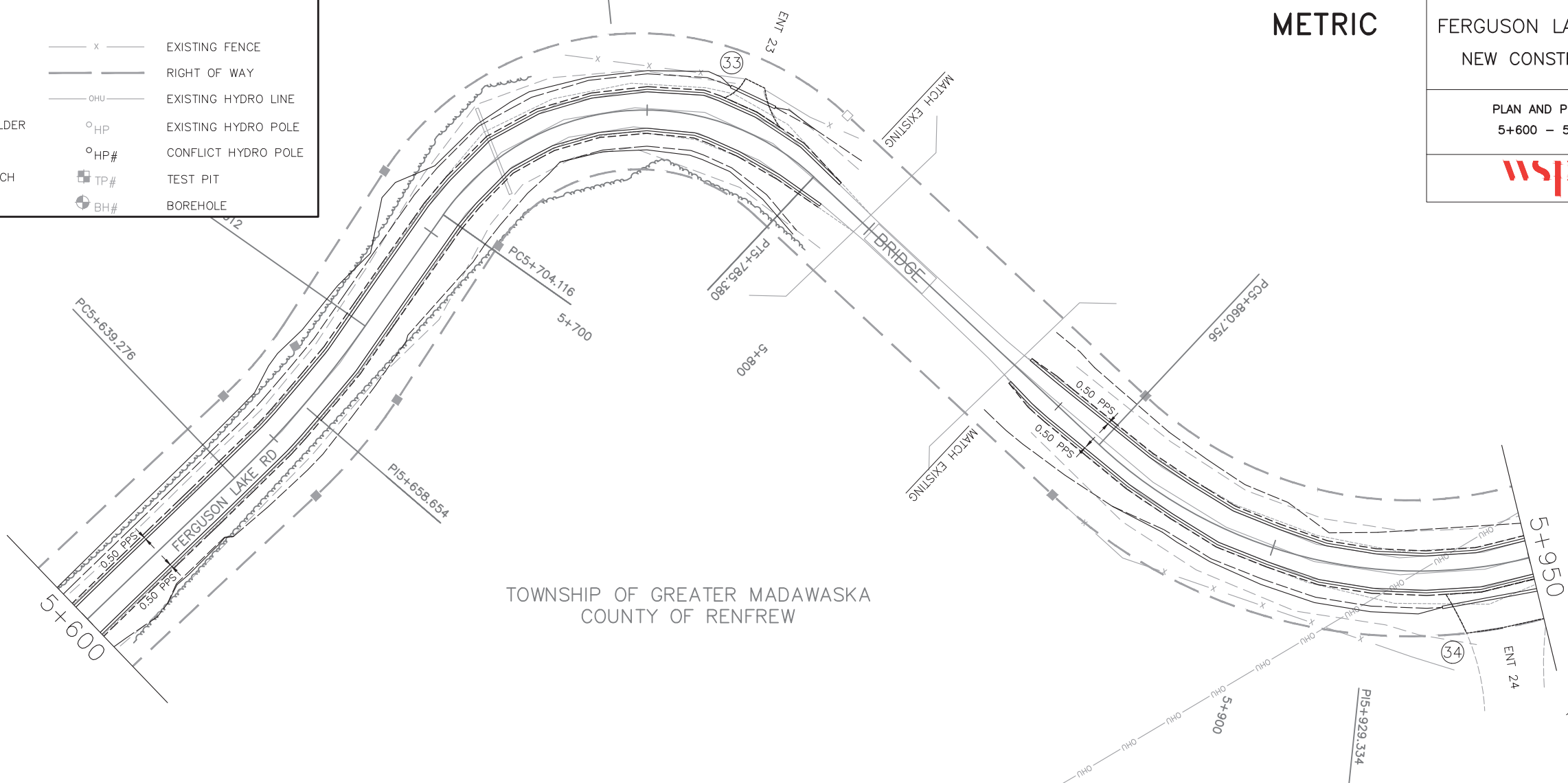
METRIC

FERGUSON LAKE ROAD
NEW CONSTRUCTION



PLAN AND PROFILE
5+600 - 5+950

SHEET
9



SCALE

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DRAWN BY: Howe, Jordan

MODIFIED: 6/8/2021 11:53 AM PLOTTED: 6/9/2021 12:10 PM

MINISTRY OF TRANSPORTATION, ONTARIO PR-D-707 88-05

LEGEND

	NEW CUVLERT		EXISTING FENCE
	CULVERT NUMBER		RIGHT OF WAY
	EDGE OF SHOULDER		EXISTING HYDRO LINE
	EXISTING EDGE OF SHOULDER		EXISTING HYDRO POLE
	BOTTOM OF DITCH		CONFLICT HYDRO POLE
	EXISTING BOTTOM OF DITCH		TEST PIT
	TREE OUTLINE		BOREHOLE

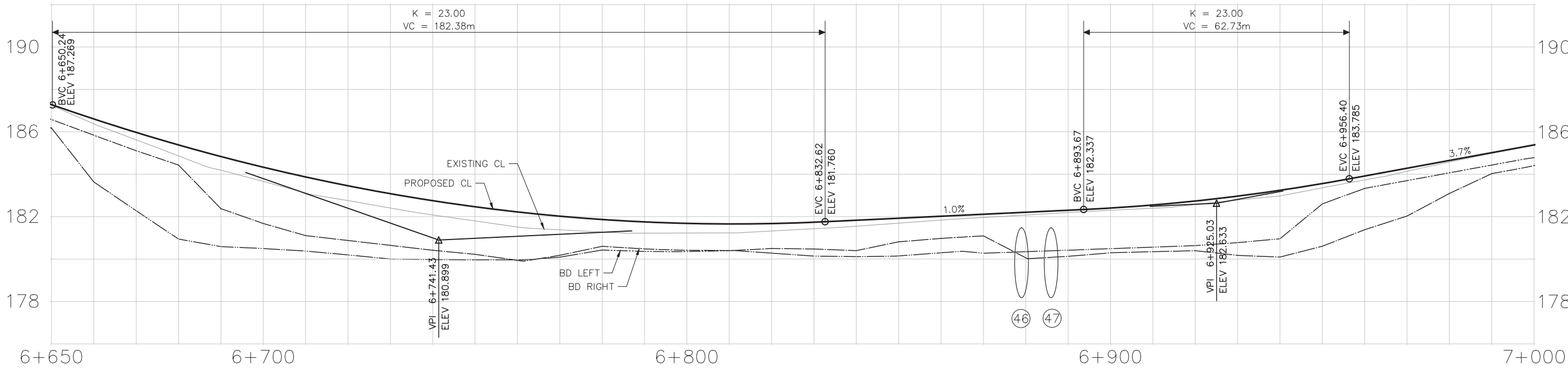
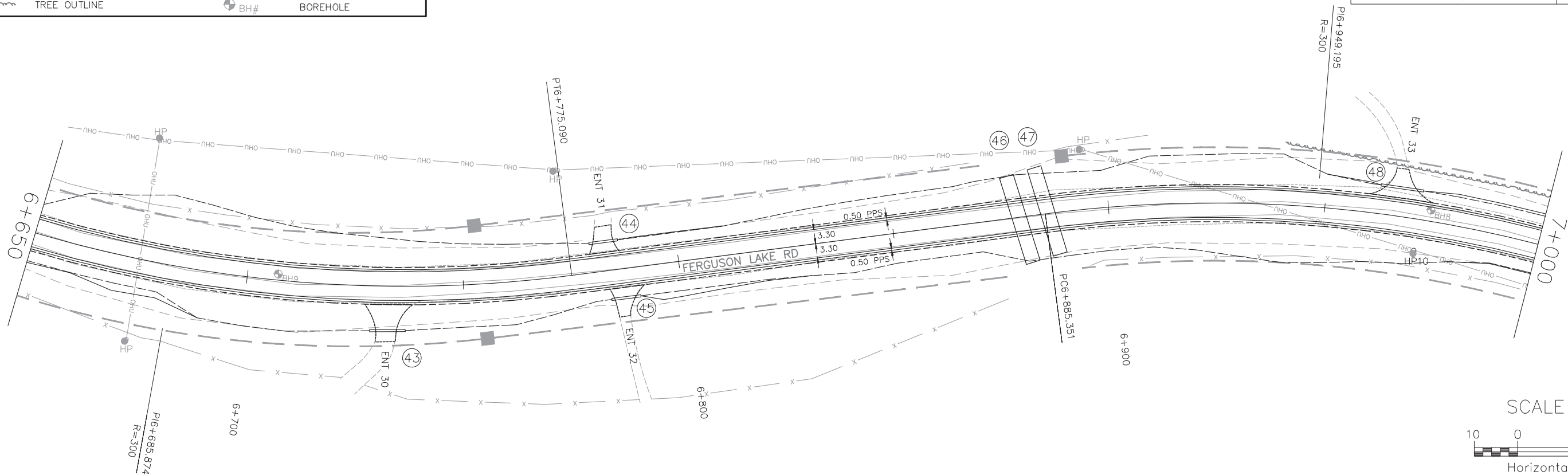
METRIC

FERGUSON LAKE ROAD
NEW CONSTRUCTION

PLAN AND PROFILE
6+650 - 7+000



SHEET
11



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DRAWN BY: Howe, Jordan

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MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

LEGEND

	NEW CUVLERT		EXISTING FENCE
	CULVERT NUMBER		RIGHT OF WAY
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	BOTTOM OF DITCH		CONFLICT HYDRO POLE
	EXISTING BOTTOM OF DITCH		TEST PIT
	TREE OUTLINE		BOREHOLE

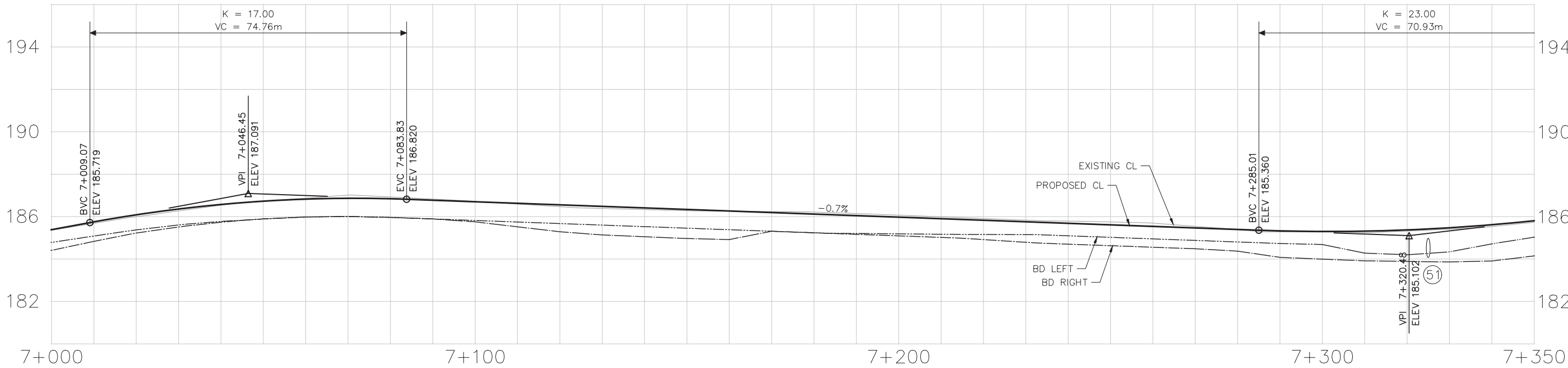
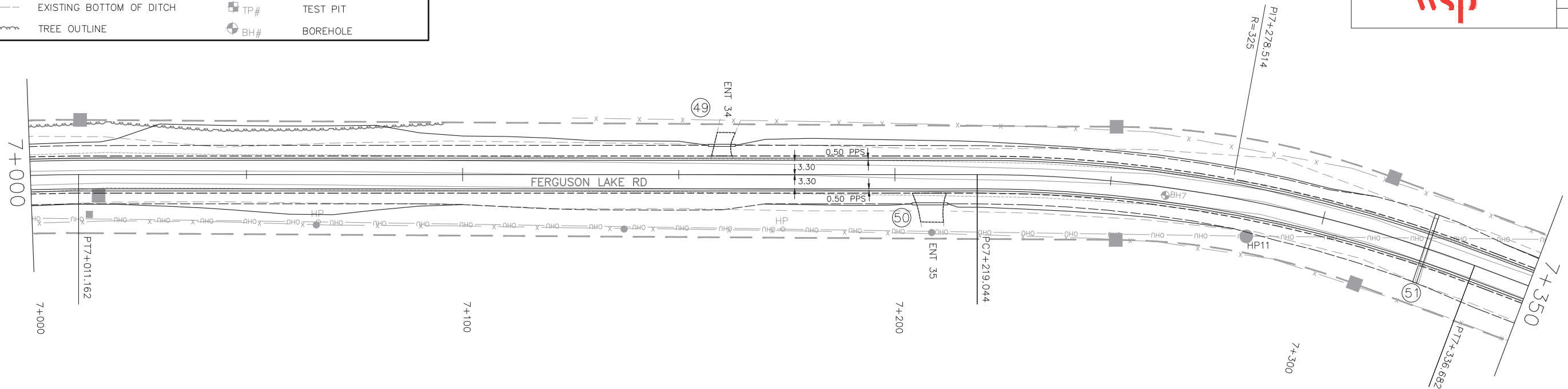
METRIC

FERGUSON LAKE ROAD
NEW CONSTRUCTION

PLAN AND PROFILE
7+000 - 7+350



SHEET
12



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DRAWN BY: Howe, Jordan

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PR-D-707 88-05
MINISTRY OF TRANSPORTATION, ONTARIO

LEGEND

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	EXISTING EDGE OF SHOULDER		EXISTING HYDRO POLE
	BOTTOM OF DITCH		CONFLICT HYDRO POLE
	EXISTING BOTTOM OF DITCH		TEST PIT
	TREE OUTLINE		BOREHOLE

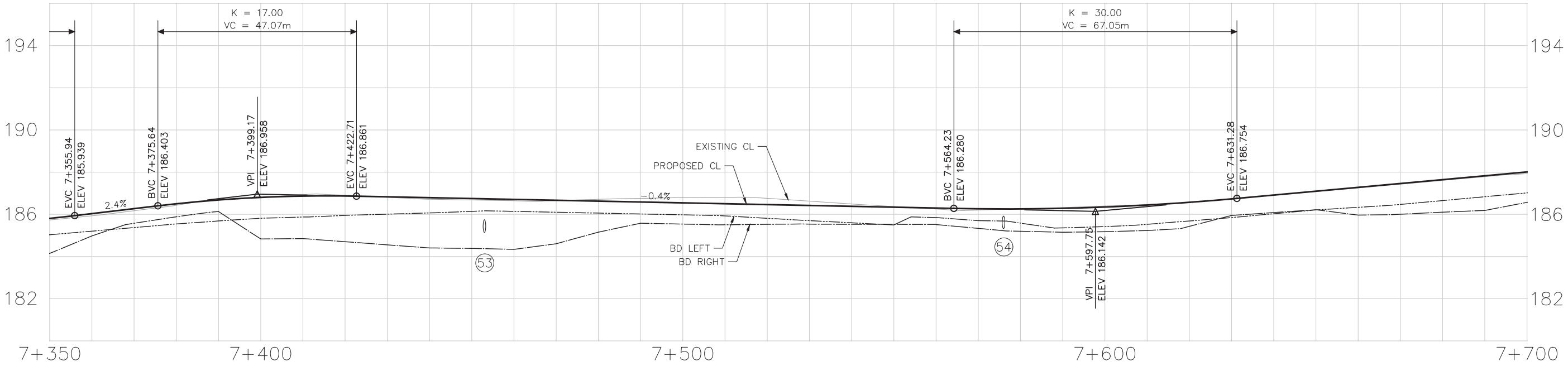
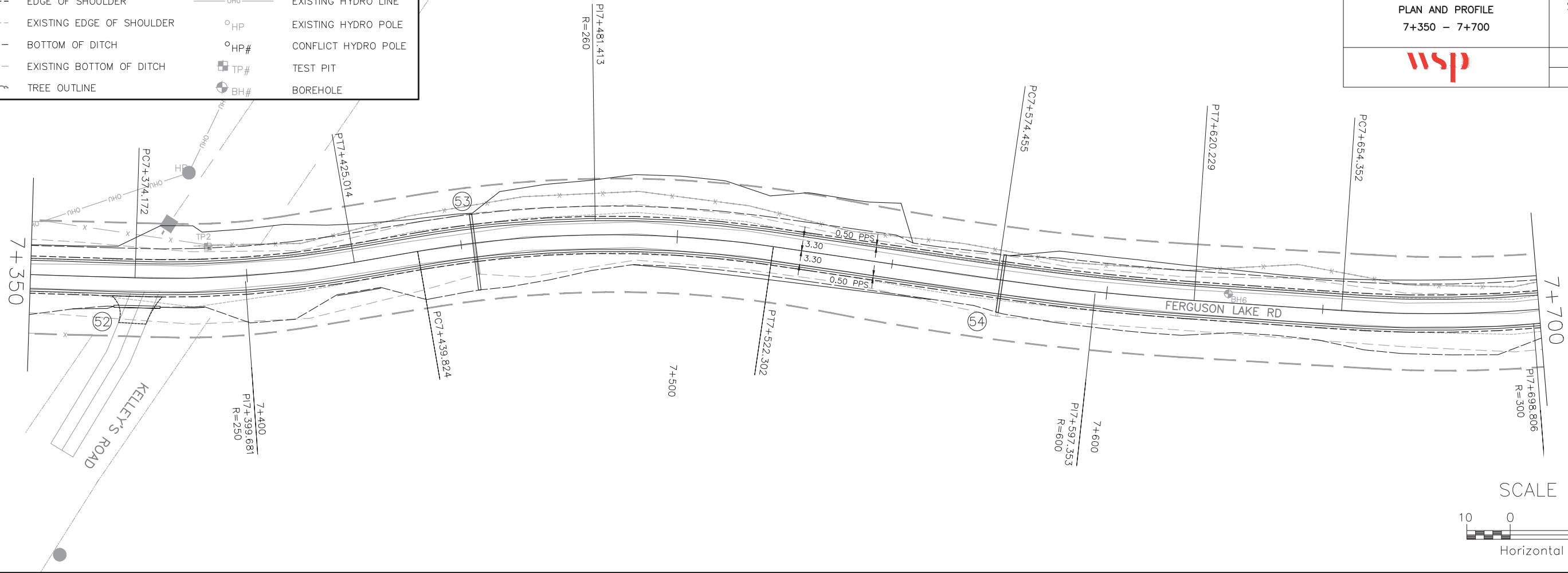
METRIC

FERGUSON LAKE ROAD
NEW CONSTRUCTION

PLAN AND PROFILE
7+350 - 7+700



SHEET
13



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MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

LEGEND

	NEW CUVLERT		EXISTING FENCE
	CULVERT NUMBER		RIGHT OF WAY
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	EXISTING EDGE OF SHOULDER		EXISTING HYDRO POLE
	BOTTOM OF DITCH		CONFLICT HYDRO POLE
	EXISTING BOTTOM OF DITCH		TEST PIT
	TREE OUTLINE		BOREHOLE

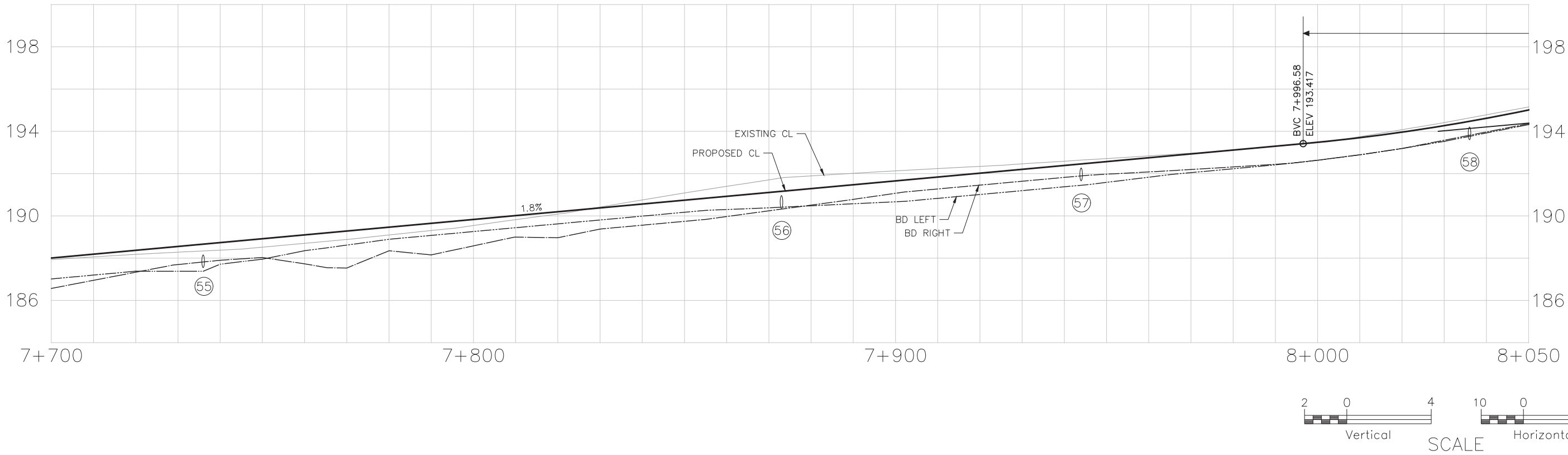
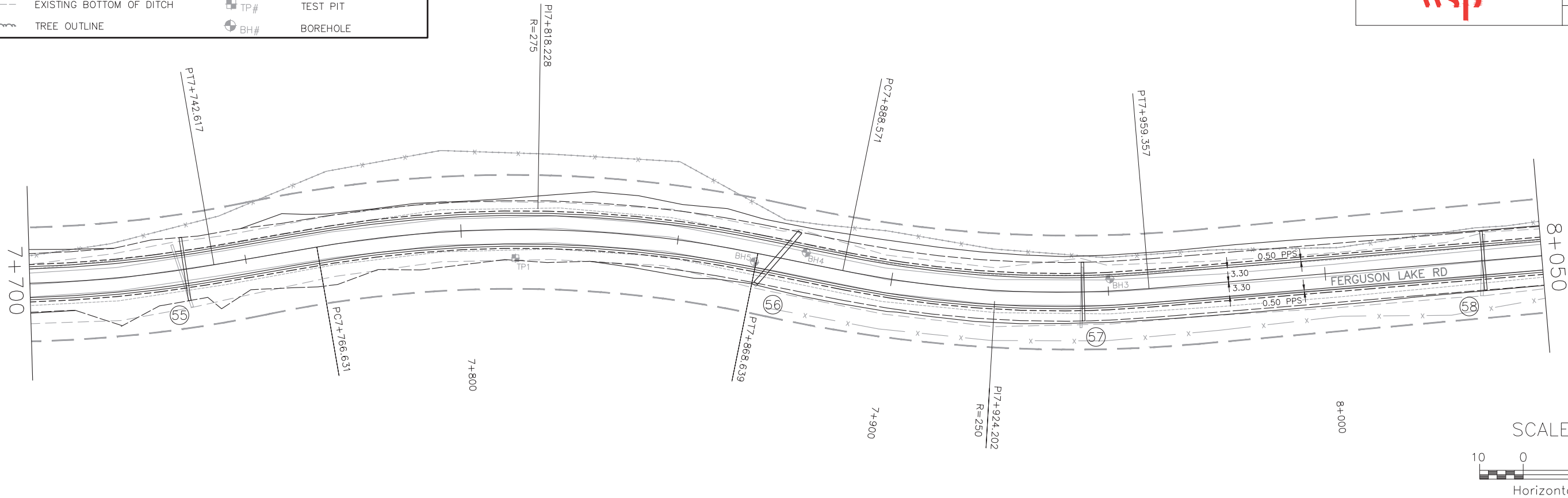
METRIC

FERGUSON LAKE ROAD
NEW CONSTRUCTION

PLAN AND PROFILE
7+700 - 8+050



SHEET
14



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DRAWN BY: Howe, Jordan

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MINISTRY OF TRANSPORTATION, ONTARIO

PR-D-707 88-05

LEGEND

	NEW CUVLERT		EXISTING FENCE
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	EXISTING EDGE OF SHOULDER		EXISTING HYDRO POLE
	BOTTOM OF DITCH		CONFLICT HYDRO POLE
	EXISTING BOTTOM OF DITCH		TEST PIT
	TREE OUTLINE		BOREHOLE

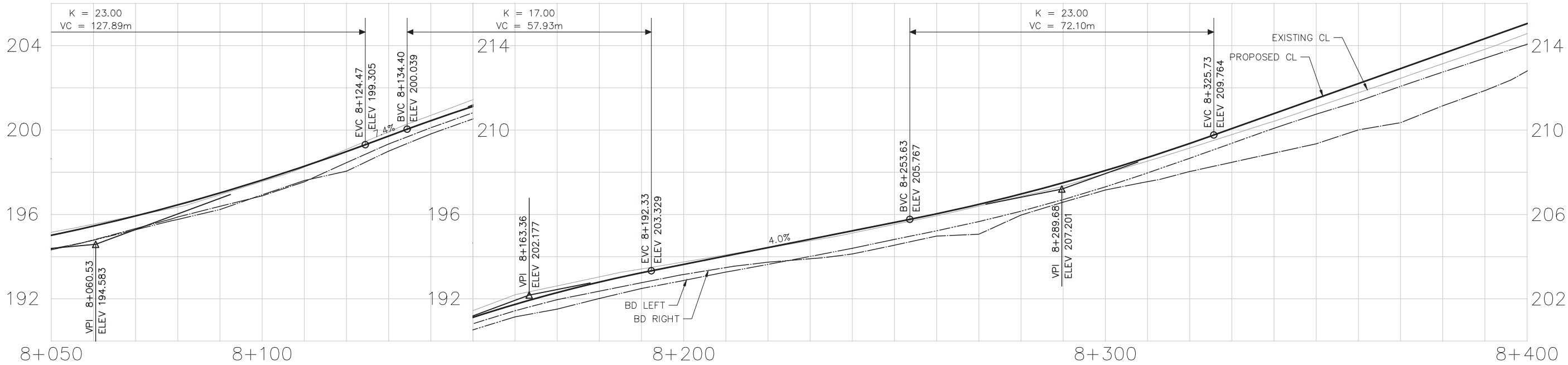
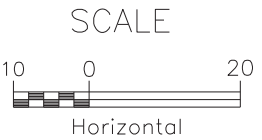
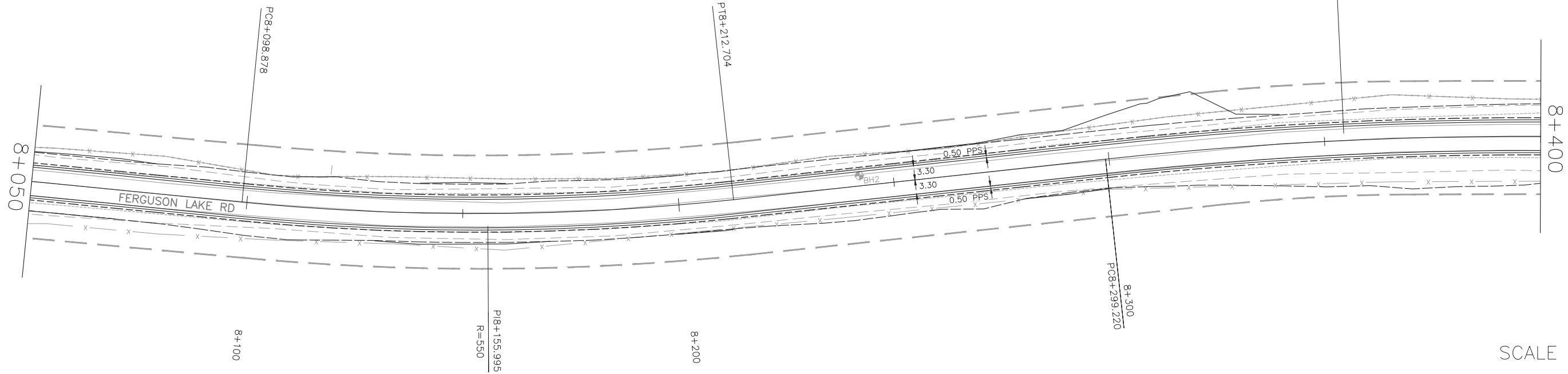
METRIC

FERGUSON LAKE ROAD
NEW CONSTRUCTION

PLAN AND PROFILE
8+050 - 8+400



SHEET
15



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DRAWING NAME: DESIGN.DWG
DRAWN BY: Howe, Jordan

MODIFIED: 6/8/2021 11:53 AM PLOTTED: 6/9/2021 12:11 PM

MINISTRY OF TRANSPORTATION, ONTARIO

PR-D-707 88-05

LEGEND

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	BOTTOM OF DITCH		CONFLICT HYDRO POLE
	EXISTING BOTTOM OF DITCH		TEST PIT
	TREE OUTLINE		BOREHOLE

METRIC

FERGUSON LAKE ROAD
NEW CONSTRUCTION

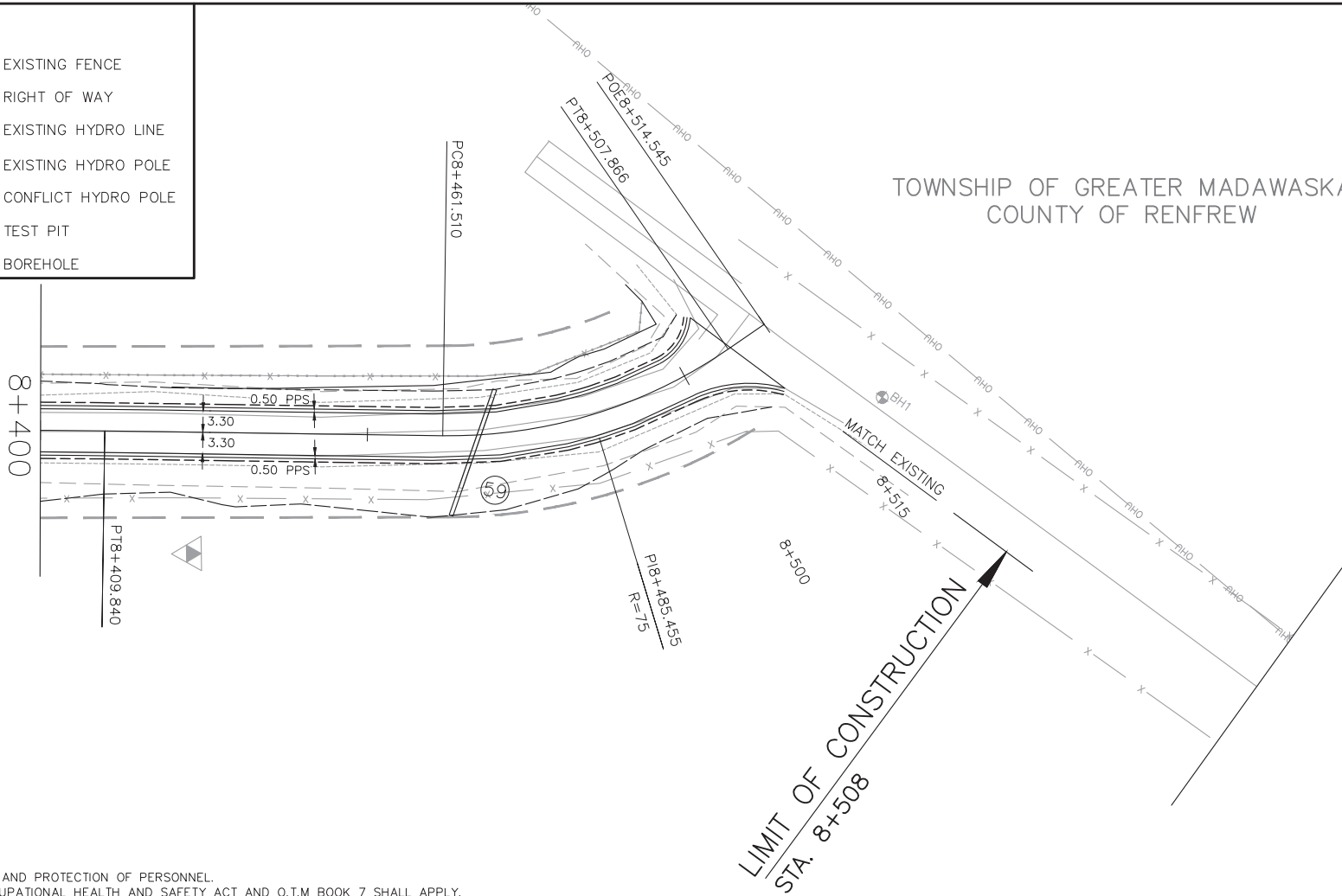


PLAN AND PROFILE
8+400 - 8+508

SHEET
16



TOWNSHIP OF GREATER MADAWASKA
COUNTY OF RENFREW



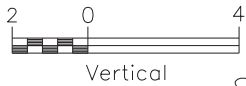
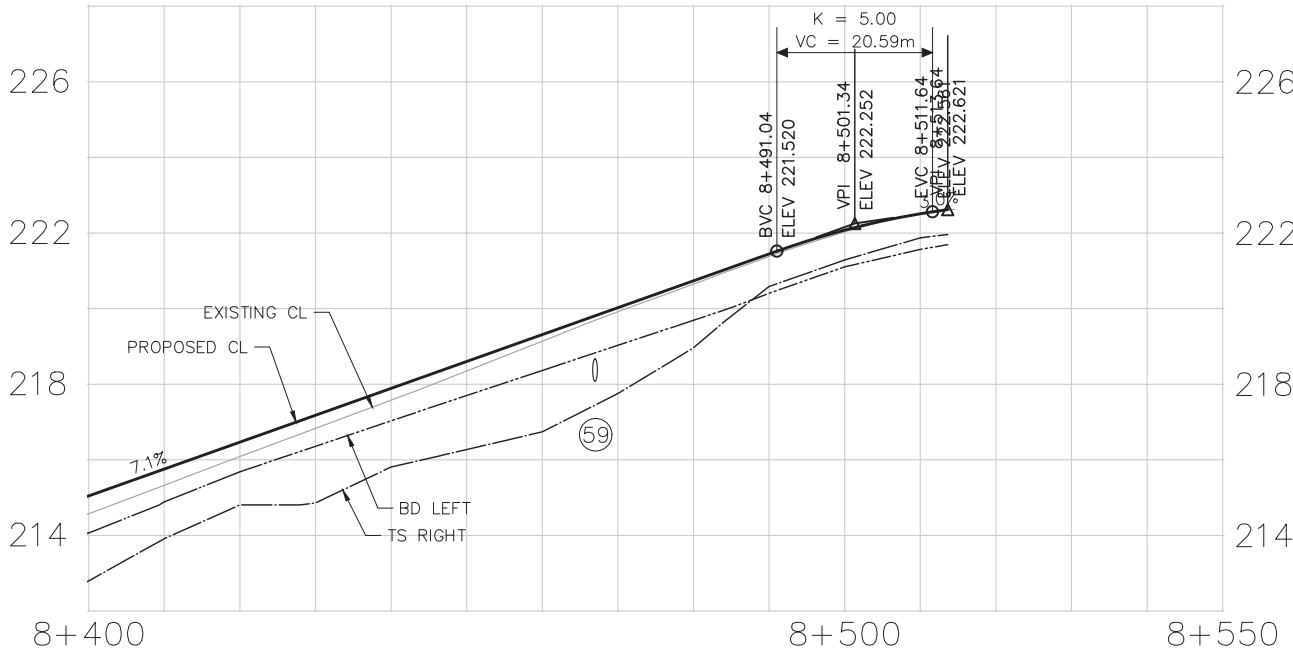
NOTES:

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE STABILITY OF THE ROADWAY AND PROTECTION OF PERSONNEL.
2. ALL PROVINCIAL SPECIFICATIONS AND REGULATIONS INCLUDING THE ONTARIO OCCUPATIONAL HEALTH AND SAFETY ACT AND O.T.M BOOK 7 SHALL APPLY.
3. CONTRACTOR SHALL LIMIT DISTURBED AREAS TO THE MINIMUM REQUIRED TO COMPLETE THE WORK.
4. ALL DISTURBED AREAS OUTSIDE THE EDGE OF SHOULDER ARE TO BE RESTORED WITH 50mm TOPSOIL, SEED & MULCH UNLESS SPECIFIED ELSEWHERE.
5. ALL WORK SHALL BE COMPLETED WITHIN THE ROW LIMITS.
6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATE AND PROTECTION OF ANY AND ALL UTILITIES WITHIN THE LIMIT OF CONSTRUCTION.
7. ACCESS TO SIDE ROADS TO BE MAINTAINED AND FLAGGED DURING CONSTRUCTION.

SCALE

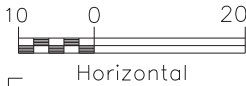


Horizontal



Vertical

SCALE



Horizontal

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DRAWN BY: Howe, Jordan

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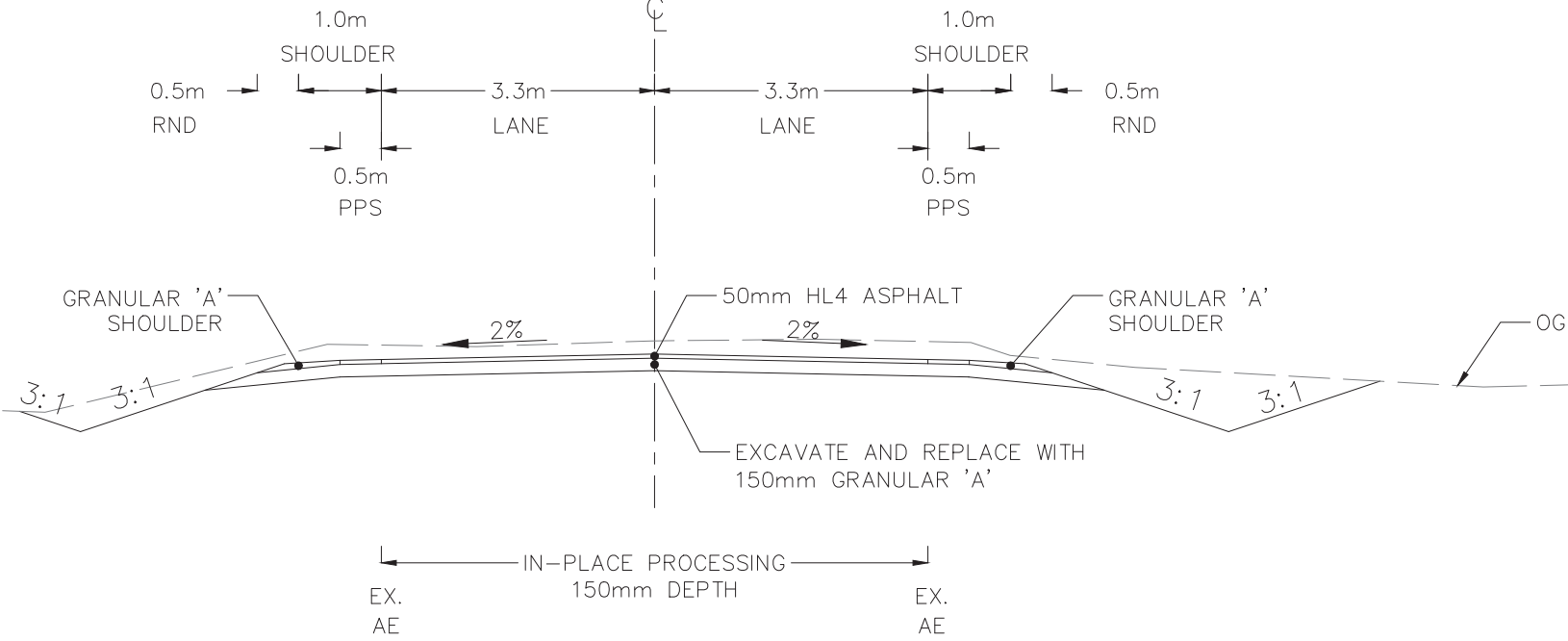
MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

METRIC

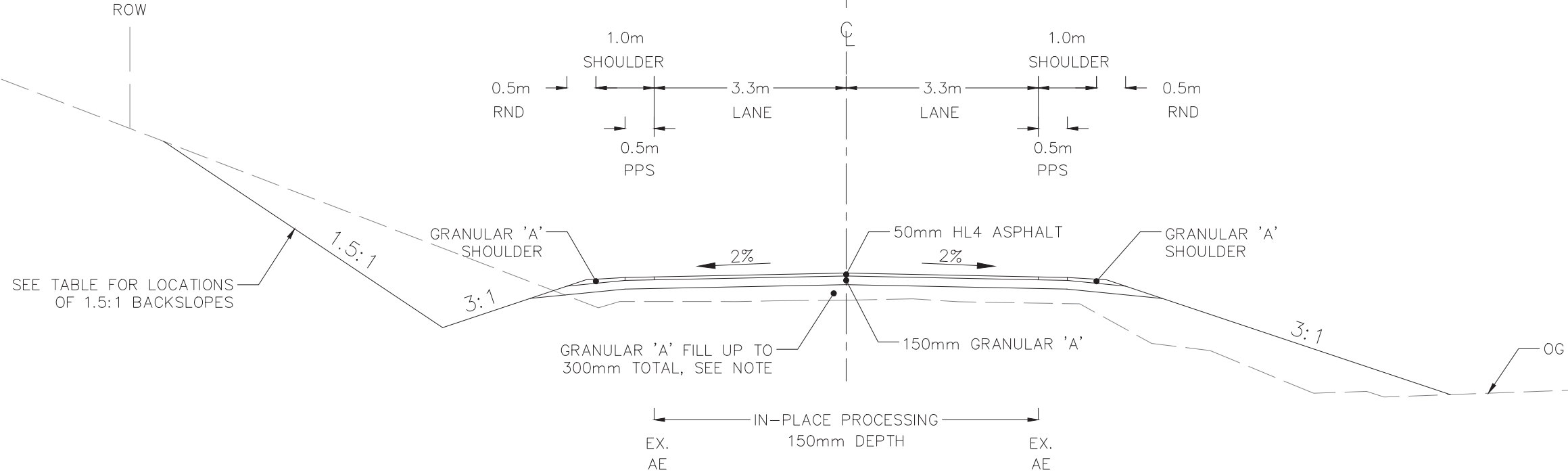
FERGUSON LAKE ROAD
TYPICALS AND DETAILS

TYPICALS

SHEET
17



TYPICAL SECTION - CUT
STATION 2+830 - 4+865, 5+986 - 8+508



TYPICAL SECTION - FILL
STATION 2+830 - 4+865, 5+986 - 8+508

NOTE: FOR FILL DEPTHS GREATER THAN 300mm, APPLY
150mm OF GRANULAR 'A' OVER GRANULAR 'B' TYPE I

N.T.S.

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DRAWING NAME: TYPICALS.DWG
DRAWN BY: Howe, Jordan

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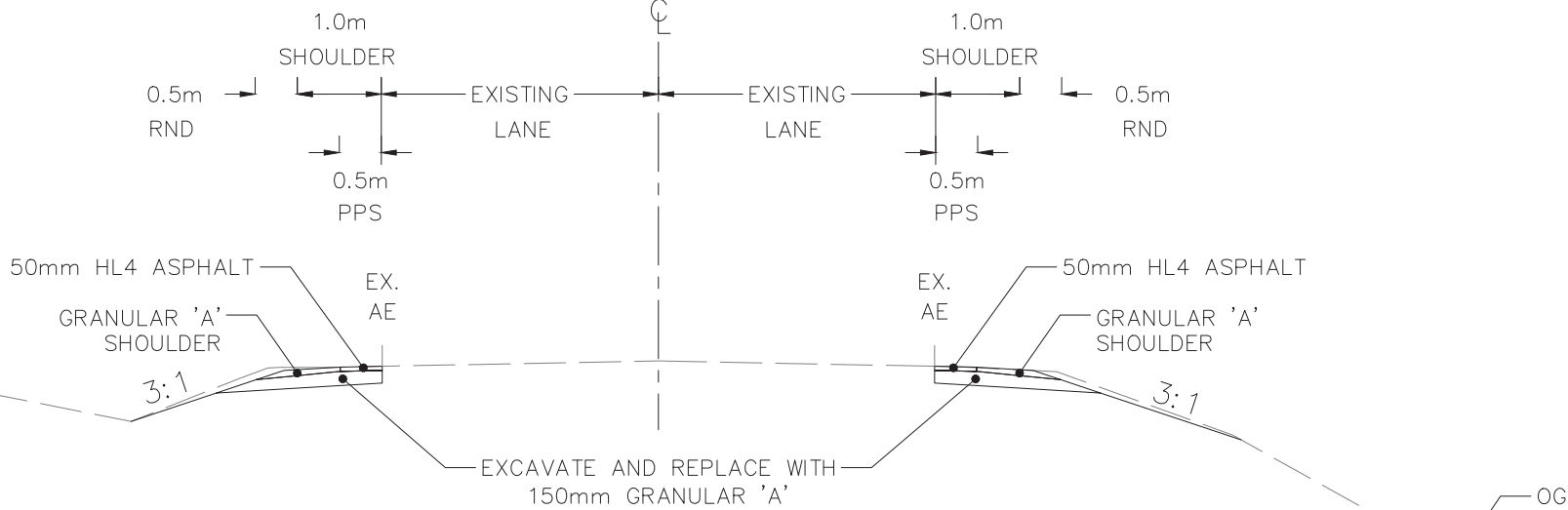
MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

METRIC

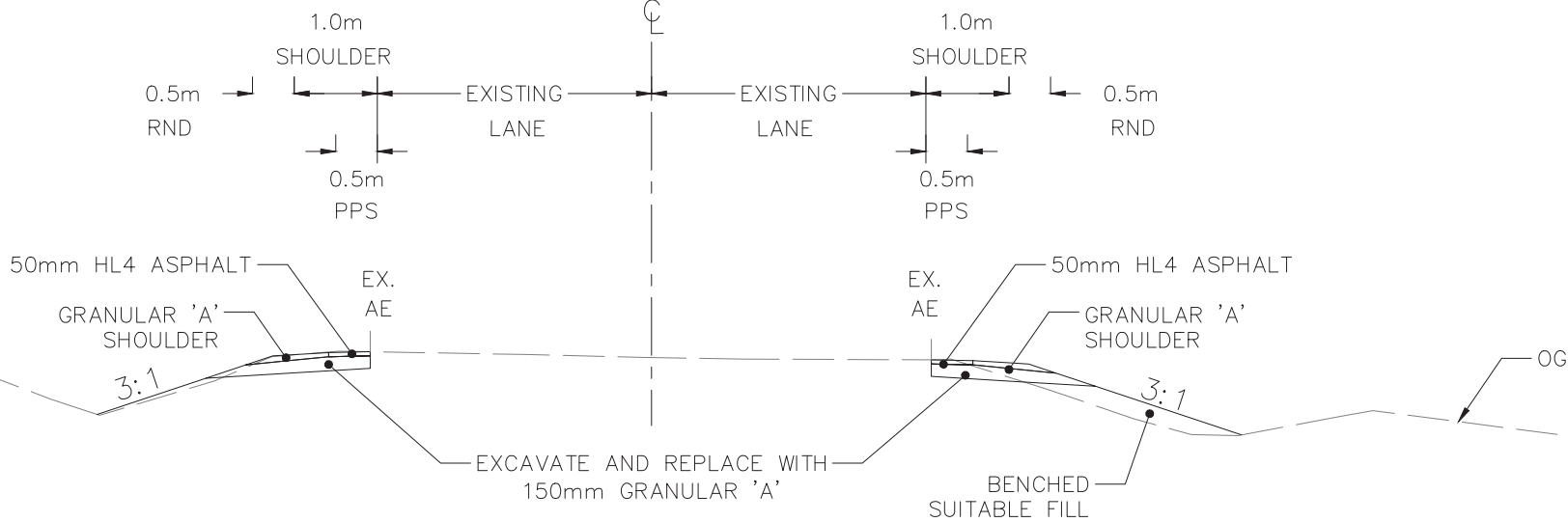
FERGUSON LAKE ROAD
TYPICALS AND DETAILS

TYPICALS

SHEET
18



NEW PARTIALLY PAVED SHOULDERS
STATION 4+865 - 5+986



NEW PARTIALLY PAVED SHOULDERS - OFF PLATFORM
STATION 4+865 - 5+986

N.T.S.

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DRAWN BY: Howe, Jordan

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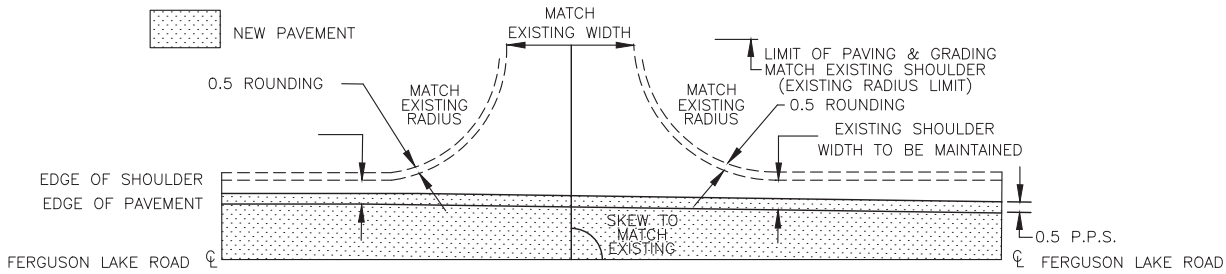
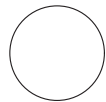
MINISTRY OF TRANSPORTATION, ONTARIO
PR-D-707 88-05

METRIC

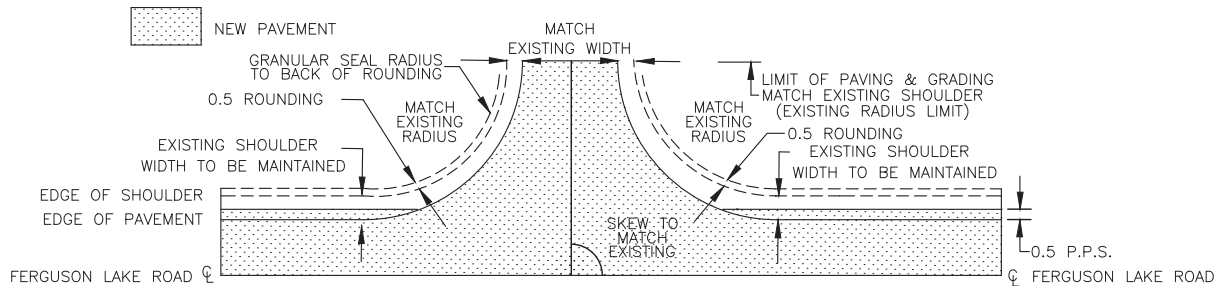
FERGUSON LAKE ROAD
TYPICALS AND DETAILS

DETAILS

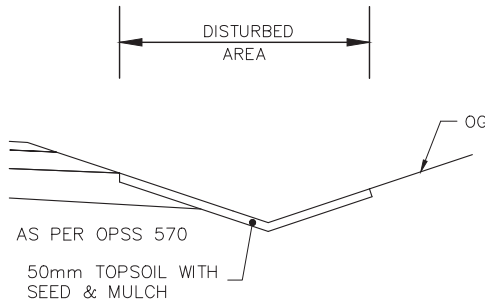
SHEET
19



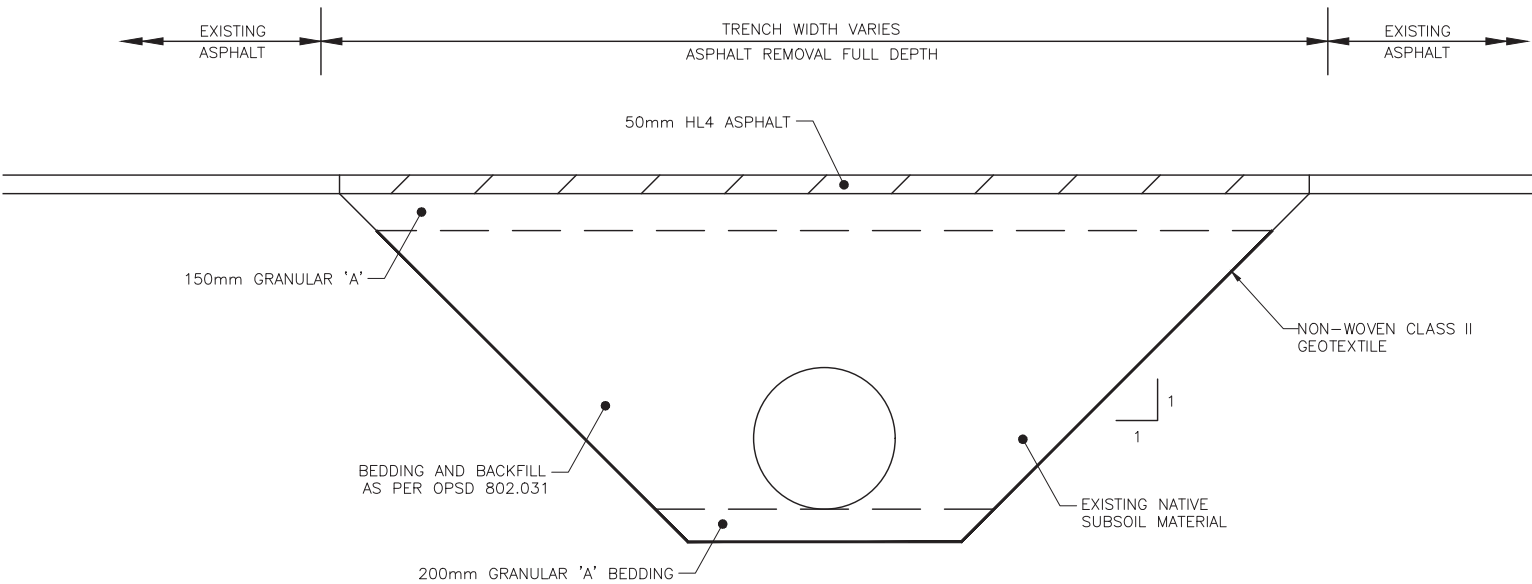
GRANULAR SIDEROAD TREATMENT



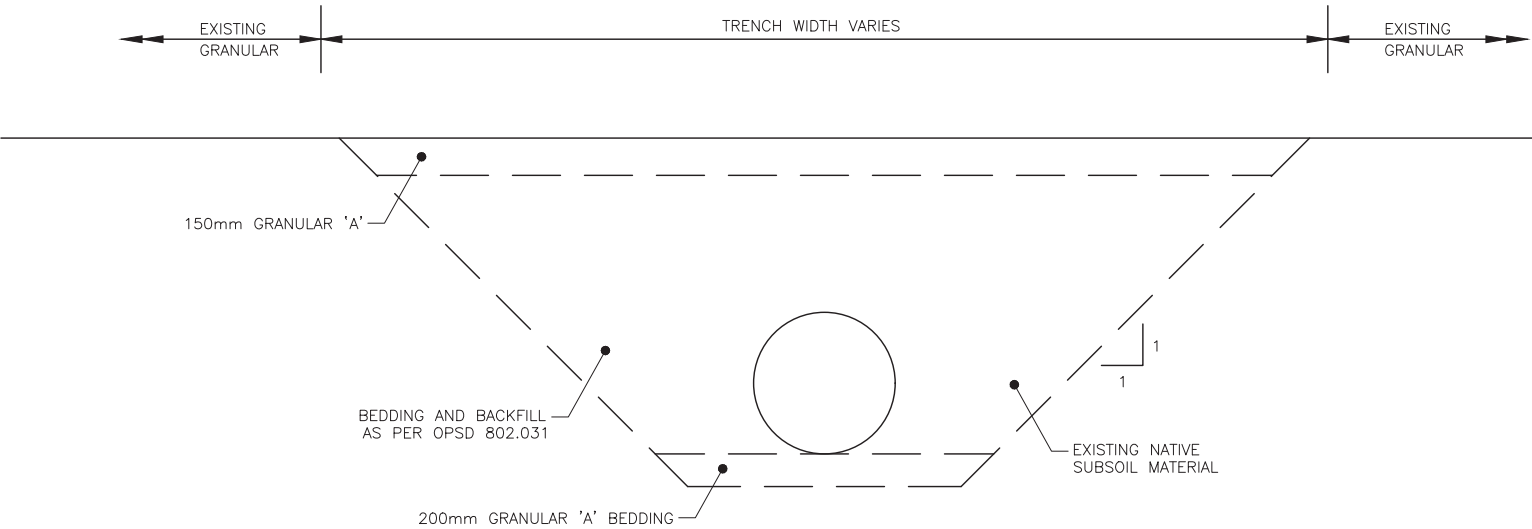
SIDEROAD TREATMENT



TOPSOIL / SEED & MULCH DETAIL



TYPICAL TRENCH REINSTATEMENT



TYPICAL SIDEROAD TRENCH REINSTATEMENT

NOTE: FROST TAPERS TO BE CONSTRUCTED AS DETAILED ELSEWHERE

N.T.S.

Appendix E



Notice of Study Commencement

Reconstruction of Ferguson Lake Road Project Schedule B - Municipal Class Environmental Assessment

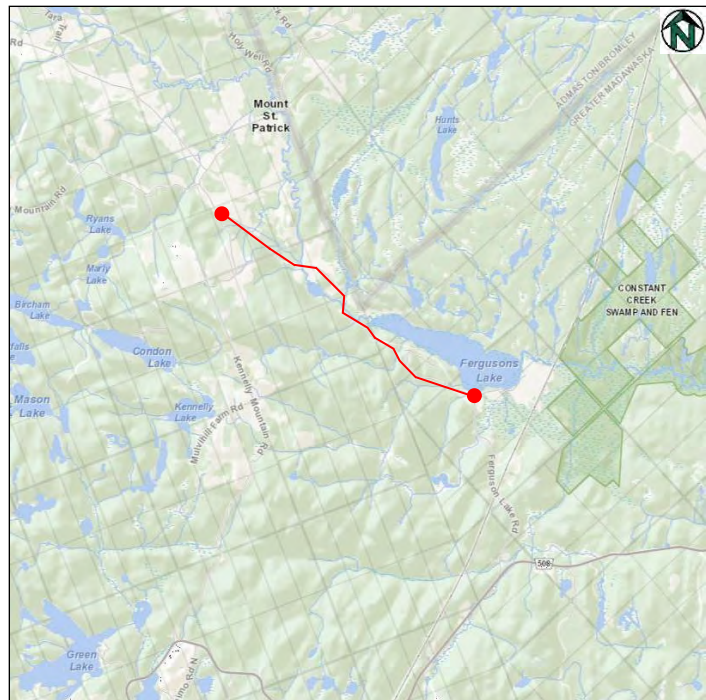
The Township of Greater Madawaska is undertaking a study to determine the most suitable alternative to reconstruct Ferguson Lake Road, from approximately Campground Side Road to Kennelly Mountain Road.

The project is being implemented in order to improve road safety, efficiency, drainage, and active transportation uses.

How Might This Project Impact Me?

The study is being undertaken in accordance with a Schedule B Undertaking of the Municipal Class Environmental Assessment (MCEA, 2015), as amended.

The study will consider and assess reconstruction alternatives, and the associated potential for impacts on the study area from each alternative. Upon careful consideration of the potential impacts, a determination of a preferred alternative will be made inclusive of input from agencies, the public, Indigenous Communities, and other interested parties.



How Can I Get More Information?

A Public Consultation Event (PCE) event is planned for later in 2020, to be held to review and discuss the results of the detailed studies/investigations completed as part of the project, to review the evaluation of the alternative solutions for the project, to discuss potential environmental impacts and their relation to the preferred solution, and to provide an opportunity for additional stakeholder input on the project. For more information on the project and/or the planning process, please contact the following in writing, using the contact information provided below.

Owner:
Township of Greater Madawaska
Allison Holtzhauer
CAO/Clerk-Treasurer
19 Parnell Street
Calabogie, Ontario K0J 1H0
Tel: 613-752-2222
E-mail: cao@greatermadawaska.com

Prime Consultant:
Greenview Environmental Management Limited
Dan Hagan, P.Geo.
Senior Project Manager / Geologist
13 Commerce Court
Bancroft, Ontario K0L 1C0
Tel: 613-332-0057
E-mail: solutions@greenview-environmental.ca

This Notice is Issued June 22, 2020

Allison Holtzhauer

CAO/Clerk-Treasurer, Township of Greater Madawaska

Project Comment Form

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Please refer to the provided information and Notice of Study Commencement associated with the above-noted project.

Name: _____
Agency (if applicable): _____
Address: _____
Email: _____

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☐ I/We wish to be involved further in the project as noted below:

Signature

Please return this completed form by **July 6, 2020** to:

Mr. Dan Hagan, P.Geo.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Notice of Public Information Centre

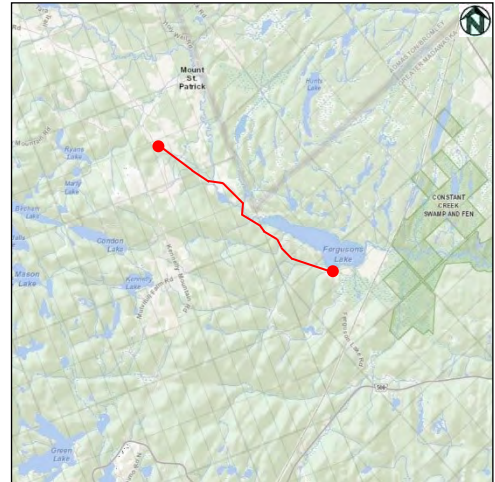
Reconstruction of Ferguson Lake Road Project Schedule B - Municipal Class Environmental Assessment

The Township of Greater Madawaska is undertaking a study to determine the most suitable alternative to reconstruct 5.7 km of Ferguson Lake Road, from approximately Campground Side Road to Kennelly Mountain Road. The project is being implemented in order to improve road safety, efficiency, drainage, and active transportation uses. This Notice has been issued in order to notify the public of the upcoming *Public Information Centre*.

How Might This Project Impact Me?

The study has been undertaken in accordance with a Schedule B Undertaking of the Municipal Class Environmental Assessment (MCEA, 2015), as amended. The Schedule B – MCEA study for Ferguson Lake Road has considered and assessed reconstruction alternatives, and the associated potential for impacts on the study area from each alternative.

At this time, careful consideration of the potential impacts of all alternatives have been reviewed by the Township. An initial determination of a *Preferred Alternative* for the reconstruction of Ferguson Lake Road has been made by Municipal Council based on the results of various studies completed, and input from agencies, the public, Indigenous Communities, and other interested parties.



Details on the Public Information Centre

The public is invited to join the Township for a virtual *Public Information Centre* event to be informed on the results of the Schedule B – MCEA study, including results of the various studies completed, design alternatives that were considered, and the initial determination on the *Preferred Alternative* for the reconstruction of Ferguson Lake Road, as identified by the Township. The *Public Information Centre* is planned to occur per the following details:

Date: Tuesday, June 15, 2021

Time: 7:00 p.m.

Due to the on-going COVID-19 Pandemic and related restrictions on public gatherings, the *Public Information Centre* is planned to be conducted as a virtual event only. If you are interested in joining the Township for the *Public Information Centre*, or would like additional information on this project, please contact the undersigned in order to be provided with access details for the event:

Owner:
Township of Greater Madawaska
Allison Holtzhauer
CAO/Clerk-Treasurer
19 Parnell Street
Calabogie, Ontario K0J 1H0
Tel: 613-752-2222
E-mail: cao@greatermadawaska.com

Prime Consultant:
Greenview Environmental Management Limited
Tyler Peters, P.Eng.
Project Director
13 Commerce Court
Bancroft, Ontario K0L 1C0
Tel: 613-332-0057
E-mail: solutions@greenview-environmental.ca

NOTICE:

Respondents should note that information collected for this study will be subject to the *Freedom of Information and Protection of Privacy Act*. With the exception of personal information, all comments received will become part of the public record and may be included in the study documentation prepared for public review.

Following the *Public Information Centre*, comments will be received by the Township until June 29, 2021. After the comment period, the Township intends to proceed with a *Project File Report*, to be placed on the public record for a minimum 30-day review period, per the requirements of the MCEA process.

This Notice is Issued May 27, 2021

Allison Holtzhauer
CAO/Clerk-Treasurer, Township of Greater Madawaska

Project Comment Form

**Re: Notice of Public Information Centre
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.21.025**

Please refer to the provided information and Notice of Public Information Centre associated with the above-noted project.

Name: _____
Agency (if applicable): _____
Address: _____
Email: _____

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☐ I/We wish to be involved further in the project as noted below:

Signature

Please return this completed form by **June 29, 2021** to:

**Mr. Tyler Peters, P. Eng.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057**

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Public Information Centre

Reconstruction of Ferguson Lake Road Project (Phase 1)

Township of Greater Madawaska
June 15, 2021; 7:00pm - Virtual

Tyler Peters, P.Eng., Project Director
Dan Hagan, P.Geo., Senior Project Manager / Geologist



Welcome & Itinerary

- On behalf of the Township, we welcome you to this session and appreciate your perseverance in participating in this format
- Municipal Council and Staff are in attendance
- Brief tutorial on MS Teams interface and function, protocols



- Slide presentation (please hold questions until Q&A session)
- Question & Answer (Q&A) Session at end of Presentation
- Summary & Next Steps

Introduction

- ✓ This Public Information Centre (PIC) Event has been prepared to present to stakeholders the results of the *Schedule B Municipal Class Environmental Assessment* (MCEA) process for the Reconstruction of Ferguson Lake Road Project (Phase 1)

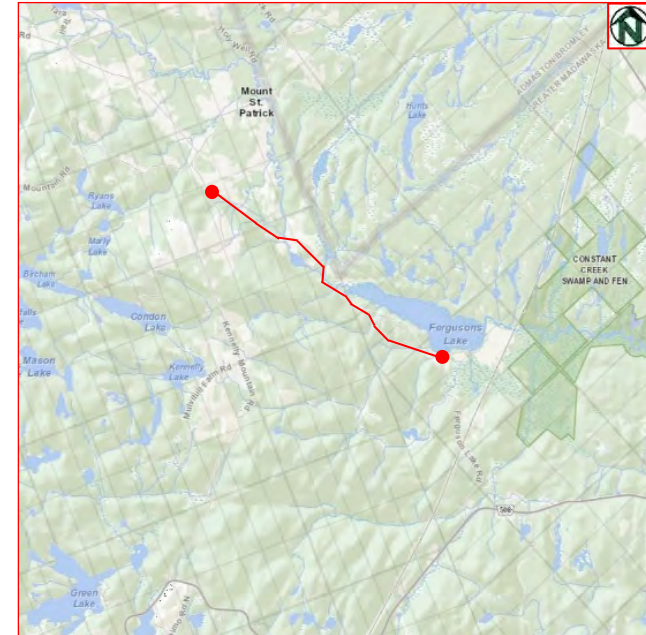


Municipal Class
Environmental Assessment (MCEA)

- ✓ The MCEA process applies to municipal infrastructure projects including: roads, water, and wastewater projects
- ✓ A Schedule B MCEA process generally includes improvements and minor expansions to existing infrastructure where there is the potential for some adverse environmental effects
- ✓ The MCEA process is a “prescriptive” process, and Proponent-driven

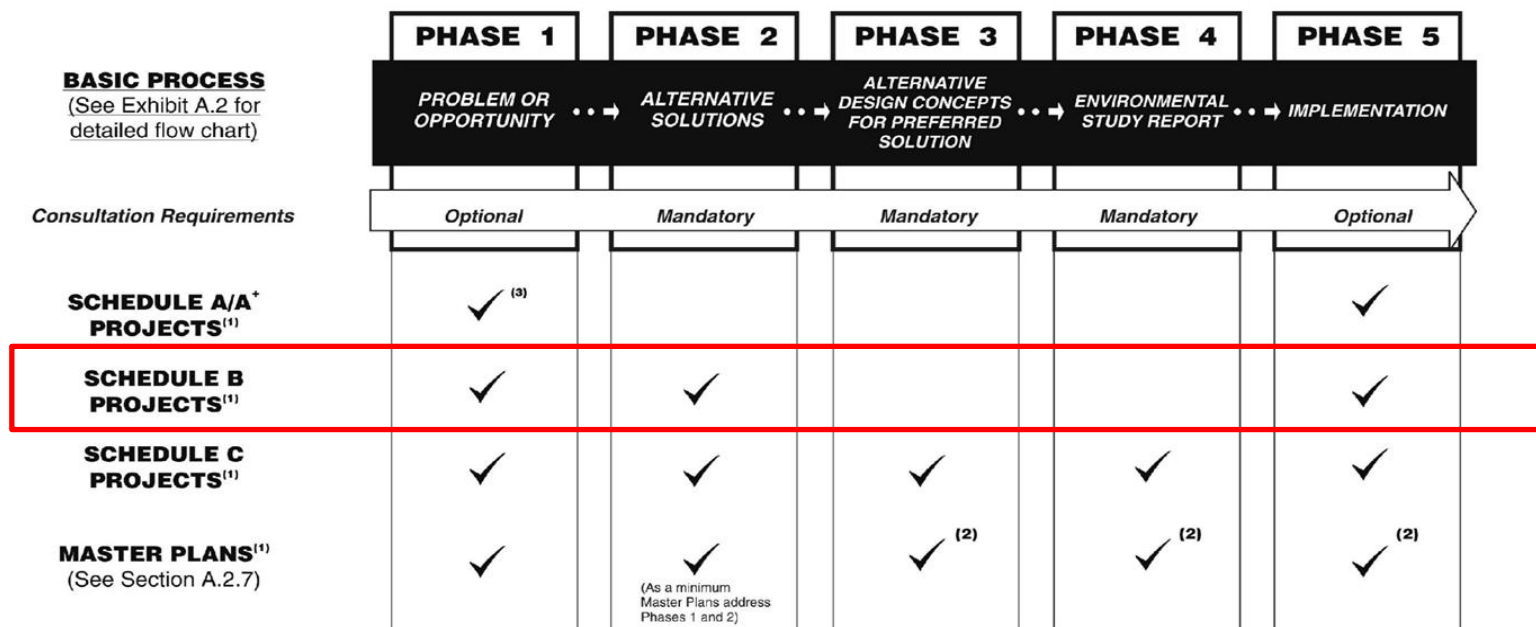
Background

- The Problem (Opportunity):
 - Ferguson Lake Road identified by the Township for reconstruction/renewal for some time, due to road condition and safety concerns (i.e. sightlines, lane widths, alignments, pavement condition, etc.)
- In late 2019, funding secured for Phase 1 of road reconstruction
 - 5.7 km, Campground Side Road to Kennelly Mountain Road
 - Funding approved by *Investing in Canada Infrastructure Program: Rural & Northern Stream*
 - Total Funding = \$4.9 M
 - Federal = 60% / Provincial = 33% / Municipal = 7%
- Project initiation (planning, design, and engineering) commenced in 2020



MCEA Process

Exhibit A.1: Key Features of the Municipal Class Environmental Assessment



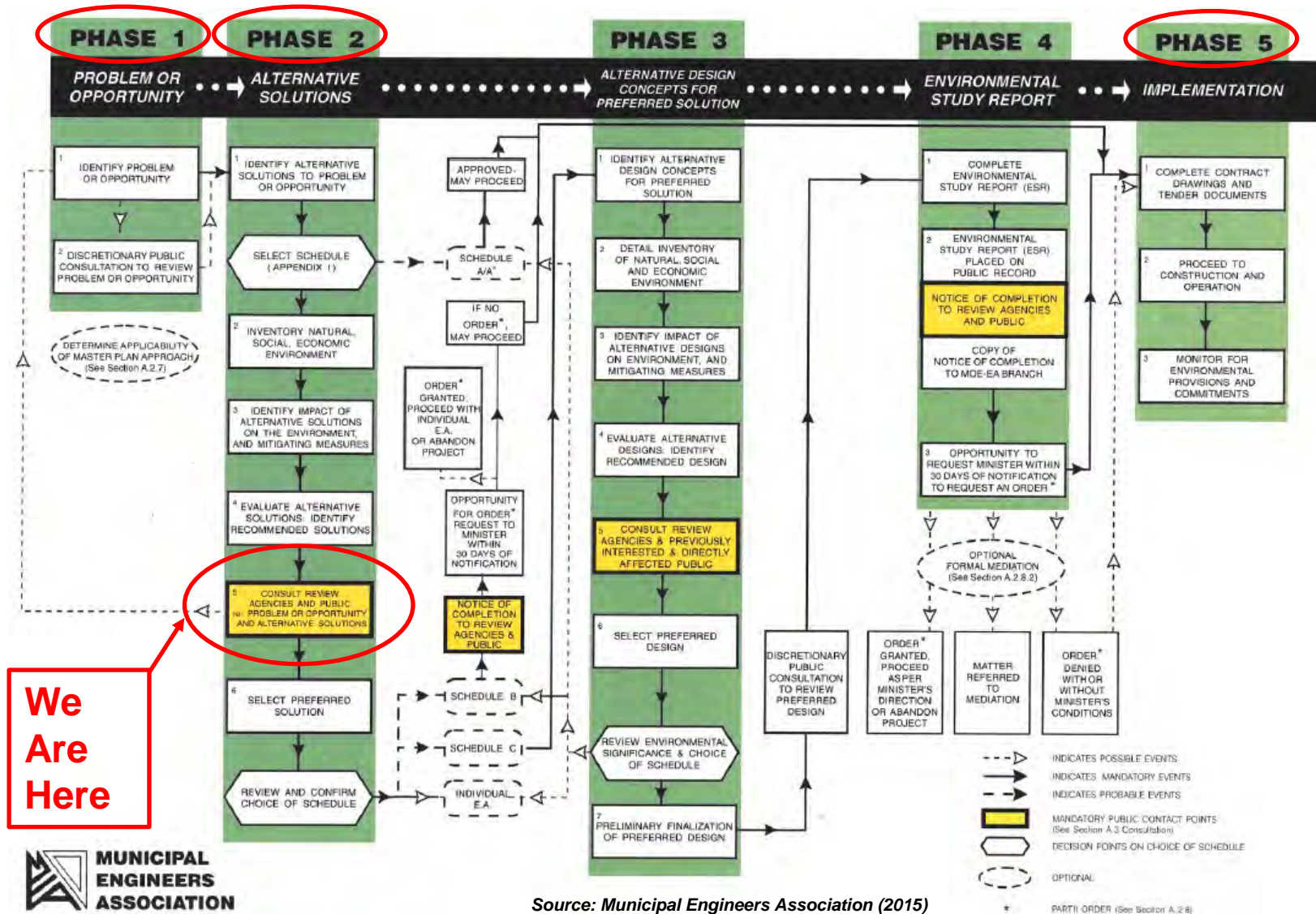
NOTES:

- ✓ Actions required during relevant phase
- (1) Schedule A, A⁺, B and C projects and Master Plans can also be integrated with the requirements of the Planning Act (See Section A.2.9)
- (2) Complete Phases 3 and 4 for any Schedule C projects included in the Master Plan prior to implementation
- (3) For Schedule A⁺ projects, public to be advised. See Section A.1.2.2.

Source: Municipal Engineers Association (2015)

MCEA Process

Exhibit A.2: Municipal Class EA Planning & Design Process (Flow Chart)



Source: Municipal Engineers Association (2015)

MCEA Process

Key Schedule B MCEA Contact Point Requirements Re: Reconstruction of Ferguson Lake Road Project

- Mandatory Points of Contact with Stakeholders
 1. *Notice of Study Commencement* (Mandatory Point of Contact #1)
 2. *Notice of Study Completion* (Mandatory Point of Contact #2)

- Voluntary Point of Contact with Stakeholders (not required)
 1. *Public Information Centre* (PIC; Voluntary Point of Contact #1)

Primary MCEA Criteria

The primary criteria for review of Schedule B MCEA Projects include:

1. Socio-Cultural Environments
2. Natural/Physical Environments
3. Economic Environments



- Project studies include:

- Socio-Cultural Environment Studies included:
 1. *Stage 1 Archaeological Assessment - Ferguson Lake Road*
 2. *Cultural Heritage Resource Assessment: Built Heritage Resources & Cultural Heritage Landscapes - Existing Conditions & Preliminary Impact Assessment Report*
- Natural/Physical Environments Studies included:
 1. *Natural Heritage Study (Biological/Environmental Investigations)*
 2. *Butternut Health Assessment (Biological/Environmental Investigations)*
 3. *Pavement Design Report (Geotechnical Investigations)*
- Economic Environment Studies
 1. *Preliminary Construction Cost Estimates, based on Alternative Solutions*

Overall Scope & Schedule

- 3-Step Process:

- Step 1: MCEA (Schedule B)
- Step 2: Detailed Design & Engineering
- Step 3: Construction



Municipal Class
Environmental Assessment (MCEA)

- Preliminary Schedule:

- Follows funding agreement (application)
- Project commenced in May 2020
- MCEA Schedule B process planned to be complete in 2021
- Construction tendering late 2021
- Construction 2022

Funding Summary

Task/Component	Funded	Unfunded	Total
Design & Engineering (includes MCEA Process)	\$352,000	\$12,000	\$364,000
Construction & Material	\$3,709,100	\$0	\$3,709,100
Land Acquisition	\$0	\$50,000	\$50,000
Project Management & Administration	\$53,000	\$0	\$53,000
Subtotal	\$4,114,100	\$62,000	\$4,176,100
Contingency (20%)	\$822,820	\$0	\$822,820
Total	\$4,936,920	\$62,000	\$4,998,920

Socio-Cultural Environments

Summary of Reporting

- Stage 1 Archaeological Assessment - Ferguson Lake Road
 - *Study completed by Archeological Services Inc. (ASI)*
 - *No previously-registered archeological sites are located within 1km of Study Area*
 - *A Stage 2 Archeological Assessment is required to be completed in selected areas that exhibited archeological potential (includes test pitting)*
 - *The Stage 2 Archeological Assessment is to be completed prior to proceeding with construction (anticipated for 2021)*
- Cultural Heritage Resource Assessment:
Built Heritage Resources & Cultural Heritage Landscapes
Existing Conditions & Preliminary Impact Assessment
Report
 - *Study completed by Archeological Services Inc. (ASI)*
 - *Study area has a rural land use history, dating back to mid-nineteenth century*
 - *A review of federal, provincial, and municipal registers, inventories, and databases revealed no previously identified features of cultural heritage value*
 - *One (1) cultural heritage resource was identified as part of field work, of historical/architectural/contextual value (early settlement of Ferguson Lake Road)*



Natural/Physical Environments

Summary of Reporting

- Natural Heritage Study
 - *Study completed by Ainley Group*
 - *Sixteen (16) vegetation communities, nine (9) locations of fish habitat, and five (5) Species-at-Risk (SAR) were observed in the study limits, including:*
 - *Butternut, Barn Swallow, Eastern Meadowlark, Eastern Whip-poor-will, and Eastern Wood-Pewee*
 - *The proposed alignments of the road have the potential to impact the following SAR:*
 - *Little Brown Bat, Northern Long-eared Myotis (bat), Tri-coloured Bat, Eastern Small-footed Myotis (bat), American Ginseng, Butternut, Blanding's Turtle, Eastern Meadowlark, Eastern Whip-poor-will, Eastern Wood-Pewee, Snapping Turtle, Wood Thrush, Golden-winged Warbler, Canada Warbler, Evening Grosbeak*
 - *Impacts to Ferguson Lake and the adjacent Provincially Significant Wetland (PSW) are not anticipated - Potential road alignments are not anticipated to encroach on the PSW*
 - *One candidate Area of Natural and Scientific Interest (ANSI) – Ferguson Lake Candidate ANSI and one regionally significant wetland – McNulty Lake Wetland, are present within the study limits*
 - *The study area falls within a Stratum II deer wintering area - reconstruction work on the road could include habitat fragmentation, habitat access, & increased road mortality.*
 - *Recommendations on mitigation measures for construction and direction for specific construction activities were included in study*

Natural/Physical Environments

Summary of Reporting

- Butternut Health Assessment Report
 - Study completed by Ainley Group, submitted to Ontario Ministry of the Environment, Conservation and Parks (MECP), Permission and Compliance, Species at Risk Branch
 - Study identified Butternut trees located within study limits of the project, and made assessments regarding the health of the trees
 - Thirty-seven (37) Butternut trees were located within the study area, including:
 - *Thirty-two (32) Category 1 trees* (non-retainable; can be removed without approvals)
 - *Two (2) Category 2 trees* (retainable; can be removed with approvals O.Reg. 242/08)
 - *Three (3) Category 3 trees* (potentially archivable; MECP permitting and coordination)
 - *Given the sensitive information involved, and rules regarding information on specific location identification information included in the Butternut Health Assessment Report, the report is not to be shared with the public.*



Natural/Physical Environments

Summary of Reporting

- Pavement Design Report
 - Study completed by Ainley Group
 - Geotechnical study completed to provide strategies for the reconstruction of Ferguson Lake Road
 - Based on information provided by the Township, the Annual Average Daily Traffic (AADT) for the road was 280 (with 15% truck traffic)
 - Twenty-four (24) boreholes were advanced in the roadway and/or edge of pavement, six (6) boreholes at cross-culverts, nine (9) test pits within roadway embankments, thirty-nine (39) probe holes advanced in vicinity of test pits
 - Representative samples of base, subbase, and subgrade submitted for gradation analysis and moisture content determination
 - Recommendations from report allowed design processes to follow a modified (site-specific) approach



Other Studies

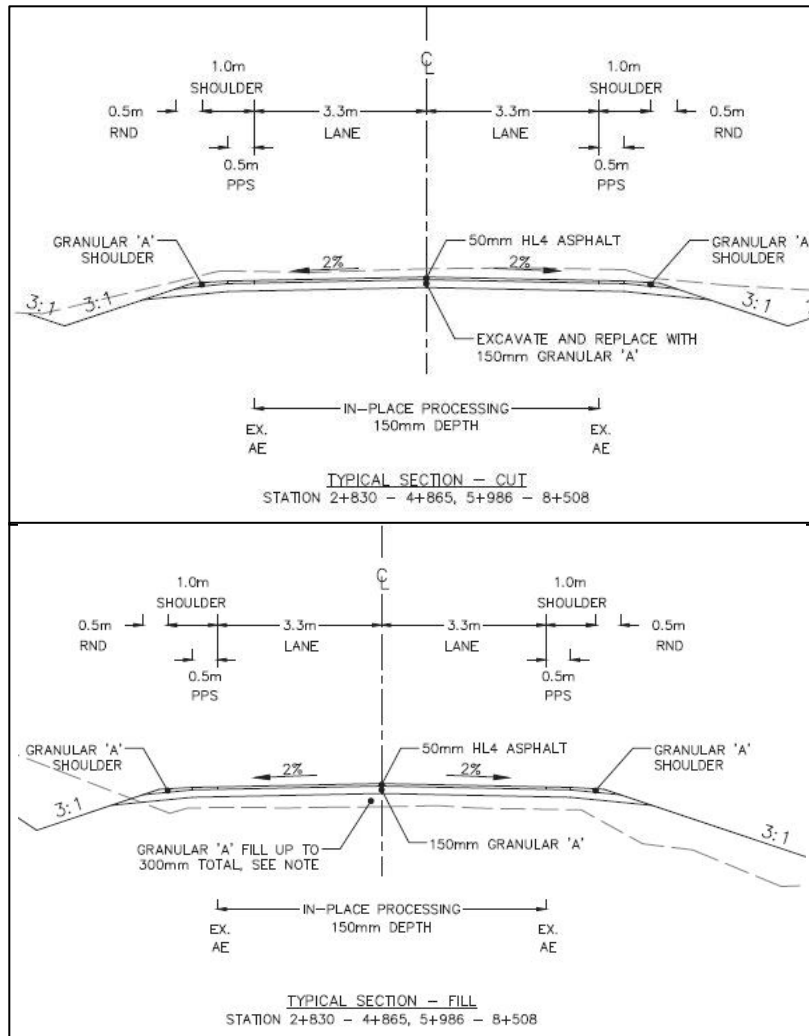
Summary of Reporting

- Topographic / Engineering Surveying
 - *Surveying completed by Greenview*
 - *Survey data used for road design purposes*
- Legal Surveying
 - *Legal Surveying completed by Simon Kasprzak O.L.S.*
 - *Portions of road identified as a “forced road”, requiring detailed boundary surveying, title searches/confirmations, and related legal survey review and assessment*
 - *Current legal boundary surveys will be utilised in dealing with any property encroachments, as required*

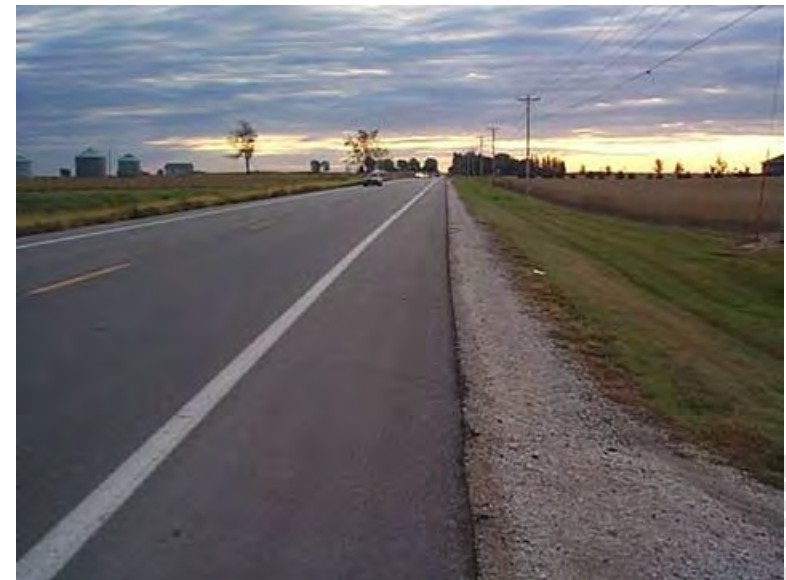


Generic Road Design Details

- Generic Road Design Cross-Section



- Single-Lane Width = 3.3 m
- Crossfall = 2%
- Paved Shoulder Width = 0.5 m
- Granular shoulder Width = 0.5 m
- Ditches = 3:1 slope (typical)
- Depth of HL4 Asphalt = 50 mm
- Depth of Base = 150 mm (min.)

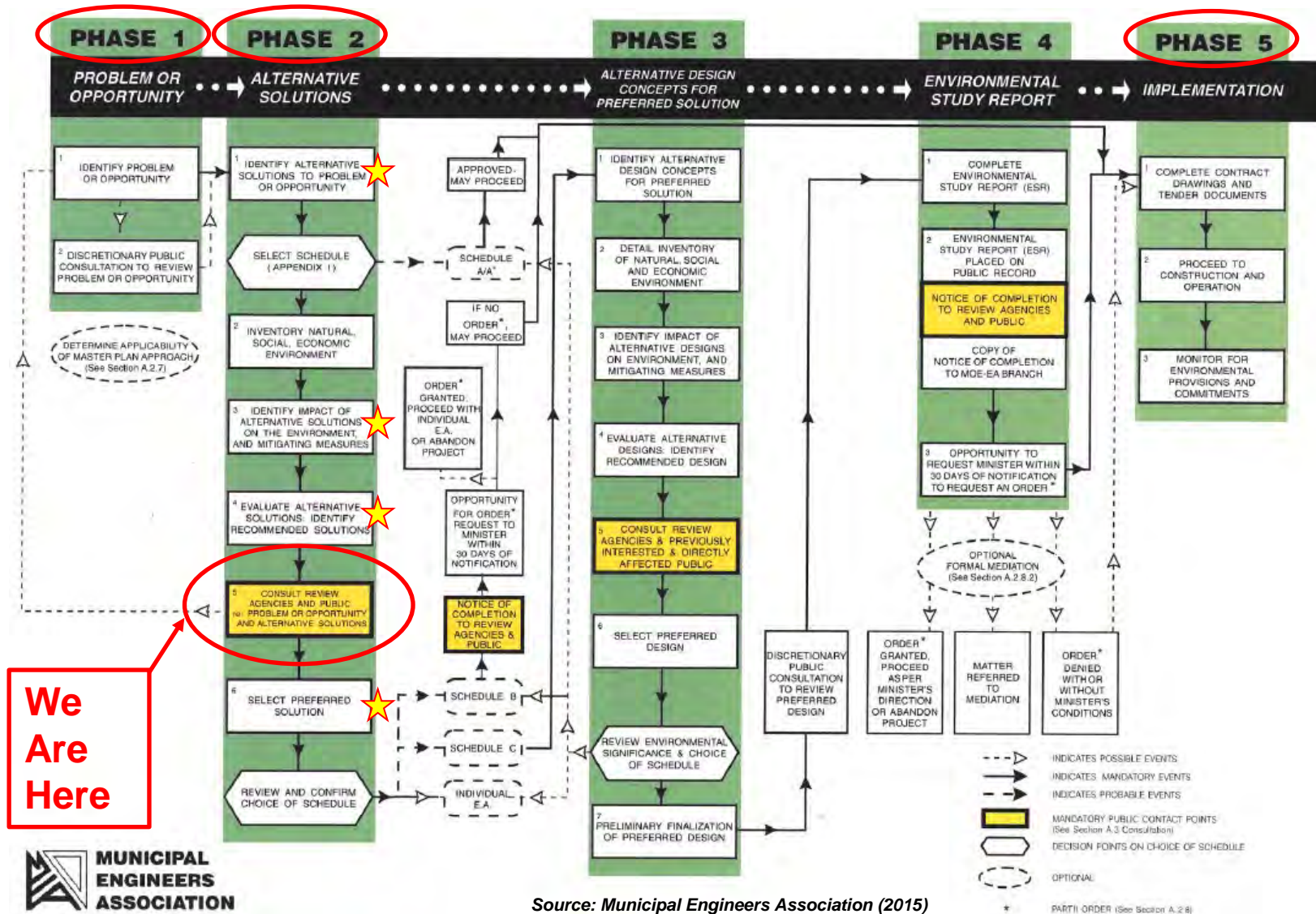


Generic Road Design Details

- Hot mix asphalt (HL4) pavement surface (3.3 m lane widths) for increased road performance, durability, lifecycle, and safety
- 0.5 m paved road shoulders (both sides of road) to assist/encourage “*Active Transportation*” (i.e. pedestrian & cycling traffic)
- Improved grading and cross-fall for road to enhance road drainage
- Upgraded ditches, entrance & cross-culverts for drainage improvements
- Other safety improvements (i.e. guiderails, signage, etc.)



MCEA: Alternative Solutions



Source: Municipal Engineers Association (2015)

MCEA: Alternative Solutions

- Alternative solutions (alternatives) developed based on a focus on reasonable solutions and feasibility perspectives
- Include the “Do Nothing / Status Quo” alternative
- Alternatives:



1. **90 km/hr design speed alignment**, with associated road and right-of-way (ROW) geometry per *Transportation Association of Canada (TAC) Geometric Design Guide for Canadian Roads*
2. **60 km/hr design speed alignment**, with associated road and ROW geometry per TAC
3. **Split 60 & 70 km/hr design speed alignment (modified)**, with associated road and ROW geometry per site-specific modifications
4. **60 km/hr design speed alignment (modified)**, with associated road and ROW geometry per site-specific modifications
5. Do Nothing / Status Quo (screened out early)

MCEA: Evaluation of Potential Effects

- Per MCEA guidelines, project alternatives are evaluated against primary criteria:
 - Natural/physical environments
 - Socio-cultural environments
 - Economic environments
- Findings from studies are evaluated relative to alternatives, with potential effects 'ranked', relatively from low to high



MCEA: Potential Effects Summary

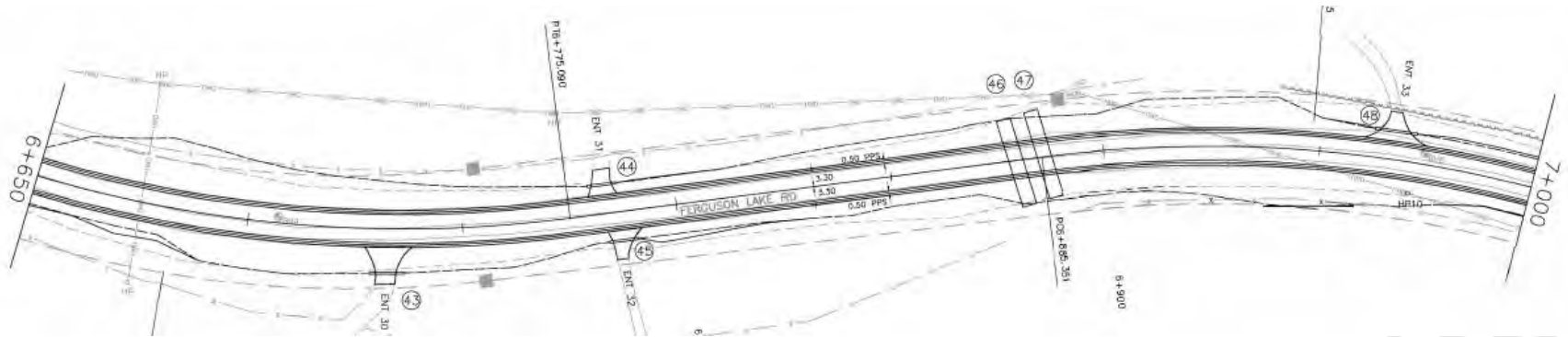
Criteria	Alternative #1	Alternative #2	Alternative #3	Alternative #4
	90kph Design Speed (TAC)	60kph Design Speed (TAC)	60 / 70kph Design Speed (Modified)	60kph Design Speed (Modified)
<i>Natural / Physical</i>				
Water Quality / Drainage	Medium	Low	Low	Low
Wetlands	Medium	Medium	Low	Low
Wildlife Habitat - Terrestrial	High	Medium	Low	Low
Wildlife Habitat - Aquatic	Medium	Low	Low	Low
Wildlife Habitat - Avian	High	High	Low	Low
Significant Species / Species at Risk	High	Medium	Low	Low
<i>Socio-Cultural</i>				
Land Use / Land Needs	High	High	Low	Low
Cultural Heritage / Archaeology	Medium	Low	Low	Low
Traffic	High	Medium	Medium	Low
Visual Aesthetics	High	Low	Low	Low
Public Opinion	High	High	Low	Low
Public Health and Safety	High	Low	Medium	Low
<i>Economic</i>				
Capital Cost	High	High	Medium	Low
Operating Cost (Long-Term Asset Maintenance/Management)	Medium	Medium	Low	Low
Summary of Potential Net Effects	High	High	Medium	Low

MCEA: Alternative #1

90 km/hr Design Speed Alignment, per TAC

- *90 km/hr design speed alignment* per TAC
not preferred due to:

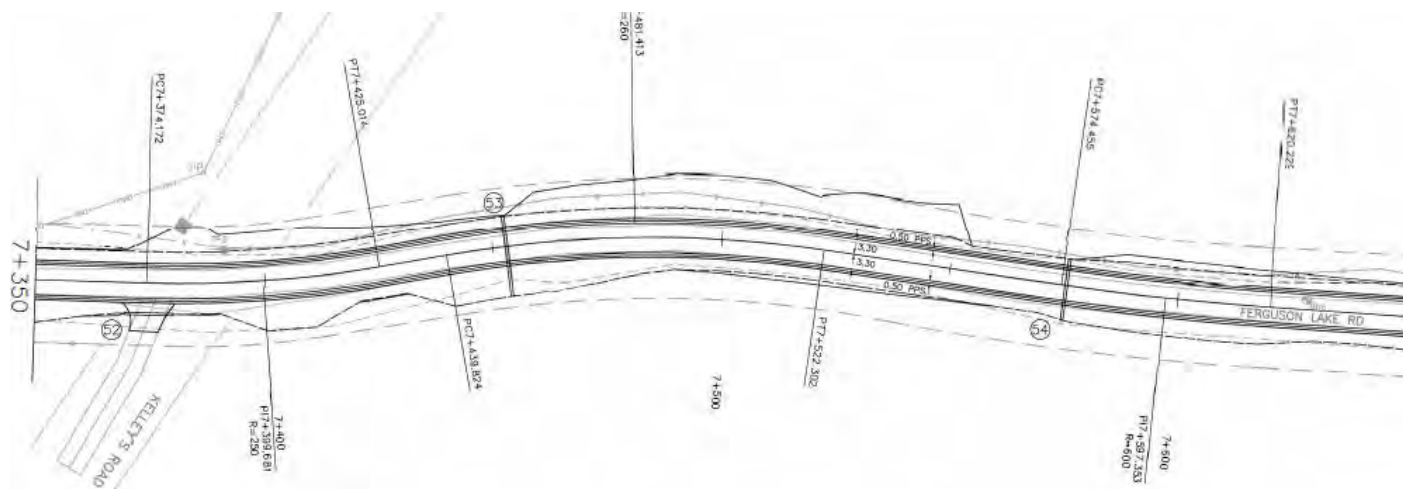
- *Significantly high costs for construction*
- *Significant impacts to SARs (notably Butternut trees)*
- *Significant requirements for horizontal and vertical realignments of road*
- *Significant land encroachments to accommodate dramatic road realignment & side slope requirements, per TAC*
- *Significant habitat impacts (terrestrial, aquatic, avian)*
- *Impacts related to public health and safety*



MCEA: Alternative #2

60 km/hr Design Speed Alignment, per TAC

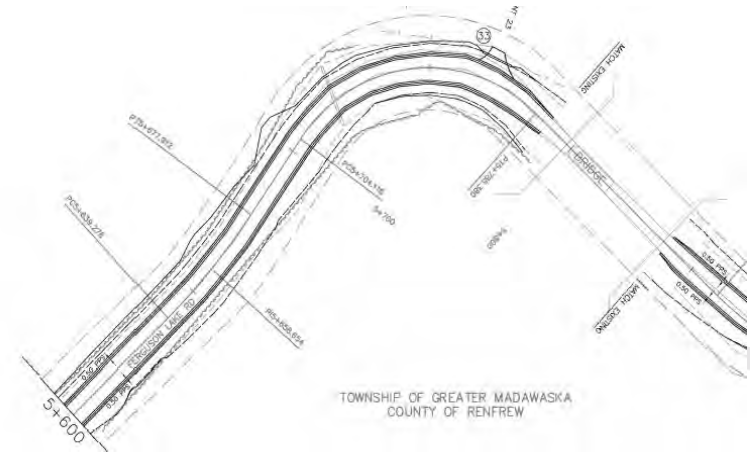
- *60 km/hr design speed alignment per TAC not preferred due to:*
 - *Significant costs for construction*
 - *Significant impacts to SARs (notably Butternut trees)*
 - *Significant land encroachments due to side slope requirements, per TAC*
 - *Significant habitat impacts (terrestrial, aquatic, avian)*



MCEA: Alternative #3

Split 60 & 70 km/hr design speed alignment,
per site-specific modifications

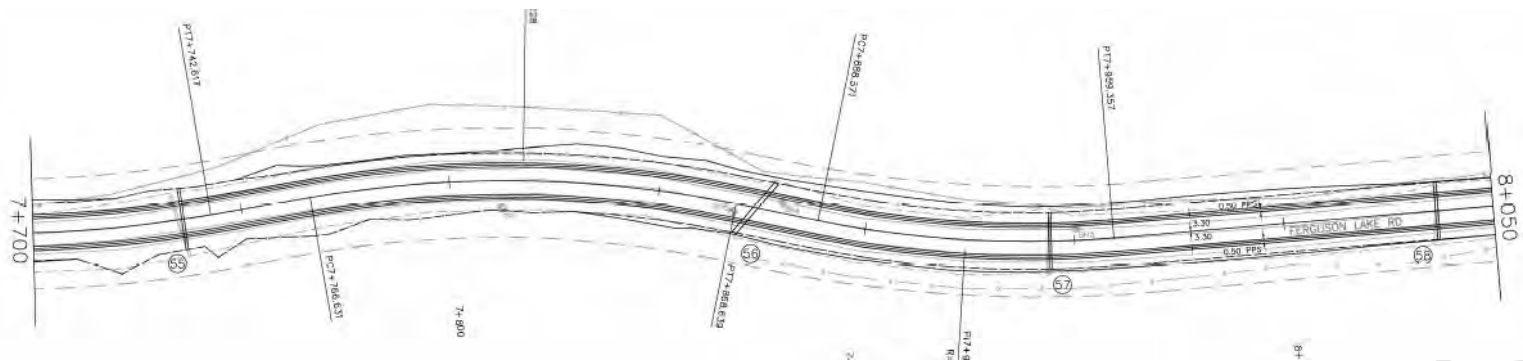
- *Split 60 & 70 km/hr design speed alignment (modified) considered preferred*
- *60 km/hr design speed from Campground Side Road to Constant Creek Bridge, 70 km/hr design speed from Constant Creek Bridge to Kennelly Mountain Road*
- *Design considered preferred due to:*
 - *Within budget*
 - *Fewer impact to SARs*
 - *Fewer property encroachment issues*
 - *Fewer habitat impacts (terrestrial, aquatic, avian)*



MCEA: Alternative #4

60 km/hr design speed alignment, per site-specific modifications

- *60 km/hr design speed (modified) for all project area considered preferred*
- *Design considered feasible due to:*
 - *Within budget*
 - *Fewer impact to SARs*
 - *Fewer property encroachment issues*
 - *Fewer habitat impacts (terrestrial, aquatic, avian)*



MCEA: Alternative #5

“Do Nothing” / Status Quo

- “Do Nothing” Alternative is always to be considered as part of MCEA process
- “Do Nothing” Alternative generally only considered when costs of all other alternatives (financial, environmental) significantly outweigh the benefits
- “Do Nothing” Alternative not considered preferred as:
 - Environmental costs can be mitigated/managed effectively with either of Alternative #3 and #4
 - Road requires repair, for public health and safety reasons
 - Reconstruction of road is within project funding



MCEA: Economic Environment

Preliminary Construction Cost Estimates

	Alternative #1	Alternative #2	Alternative #3	Alternative #4	Alternative #5
	90kph Design Speed (TAC)	60kph Design Speed (TAC)	60/70kph Design Speed (Modified)	60kph Design Speed (Modified)	Status Quo / Do Nothing
Preliminary Construction Cost	\$6,767,090	\$6,227,785	\$3,609,424	\$3,508,317	N/A
Contingency (20%)	\$1,353,418	\$1,245,557	\$721,885	\$701,663	
Estimated Total Cost (High)	\$8,120,507	\$7,473,342	\$4,331,309	\$4,209,980	
Construction Funding	\$3,709,100	\$3,709,100	\$3,709,100	\$3,709,100	
Difference	-\$4,411,407	-\$3,764,242	-\$622,209	-\$500,880	
Construction Funding (incl 20% Contingency)	\$4,450,920	\$4,450,920	\$4,450,920	\$4,450,920	
Difference	-\$3,669,587	-\$3,022,422	\$119,611	\$240,940	

MCEA: Preferred Alternative

Municipal Council Initial Preferred Alternative

- Based on a review of all components of the Schedule B MCEA process, Municipal Council prefers:
 - **Alternative #3, 60/70kph Design Speed (modified) as their initial *Preferred Alternative***
 - *60 km/hr design speed from Campground Side Road to Constant Creek Bridge, 70 km/hr design speed from Constant Creek Bridge to Kennelly Mountain Road*



Next Steps -

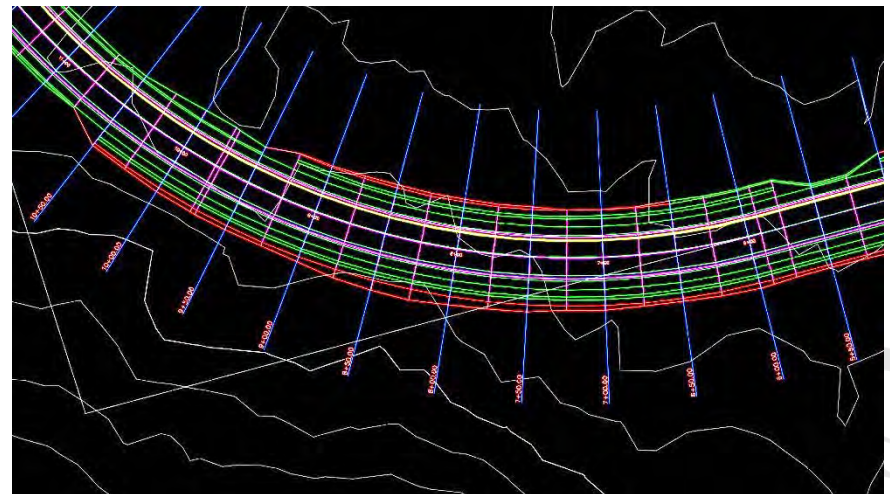
Schedule B MCEA Process

1. Final Determination of *Preferred Alternative*
 - Based on a thorough review of all elements of the project, including from socio-cultural, natural/physical, and economic environments, input from stakeholders, and potential net effects, Municipal Council to determine *Preferred Alternative*
2. Preparation of *Project File Report*
 - Summary report of MCEA process
3. Issuance of *Notice of Study Completion*
 - To be issued to all stakeholders with interest
 - 30-day comment period



Next Steps – Design & Engineering

- Design & Engineering
 - Detailed Design – July/August 2021
 - Permitting & Approvals
 - Legal surveying, property encroachments – spring/summer 2021 (initiated, on-going)
 - Supplemental studies required from MCEA process (i.e. archeological, permitting, etc.)

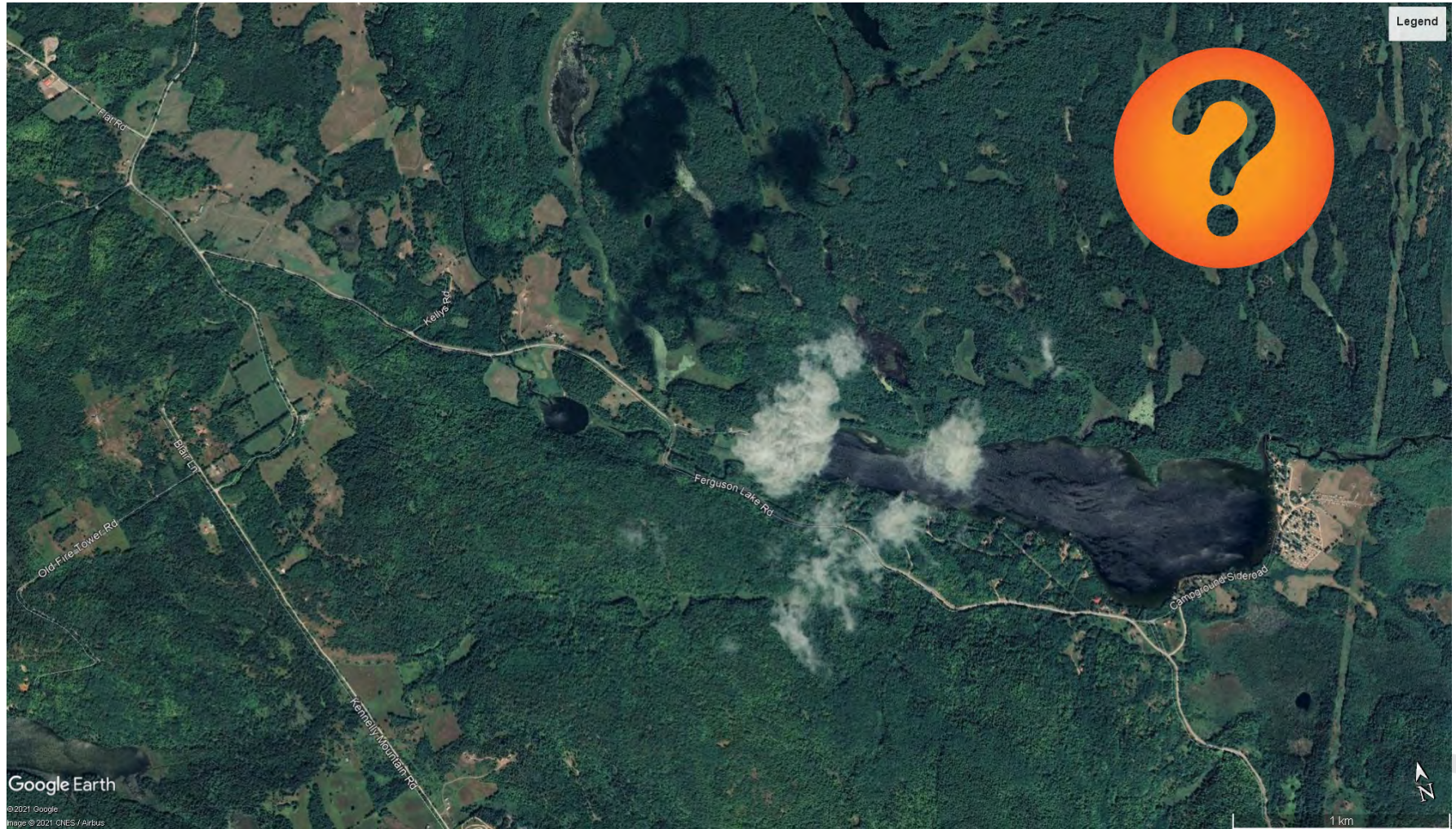


Next Steps – Implementation

- Implementation (Construction)
 - Construction tendering – Fall 2021
 - Construction start – Early 2022
 - Construction end – Summer 2023

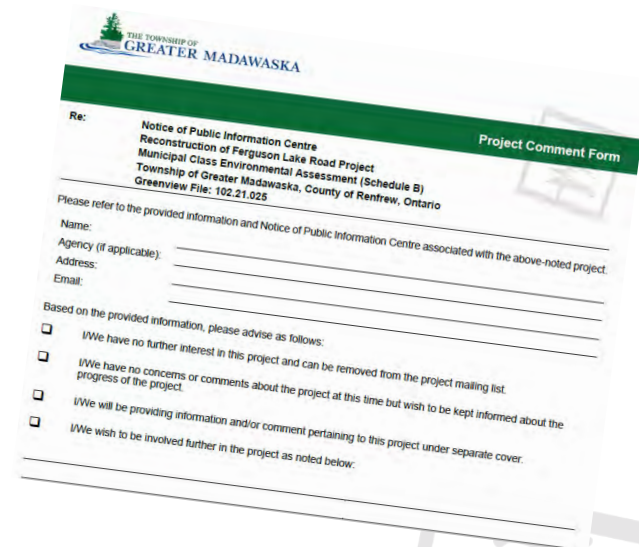


Questions & Discussion



Project Links for Stakeholders

- Township Website:
 - <https://www.greatermadawaska.com/community-news/ferguson-lake-notice-of-public-information-centre-2869.html>
 - <https://www.greatermadawaska.com/departments/public-works/ferguson-lake-road-reconstruction-3324.html>
- Township Website Links include:
 - Pertinent Studies, Documents, Plans
 - PIC Presentation (to be posted tomorrow)
- Interested Stakeholders:
 - Please Submit *Project Comment Forms* by June 29, 2021



THE TOWNSHIP OF
GREATER MADAWASKA

Project Comment Form

Re: Notice of Public Information Centre
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.21.025

Please refer to the provided information and Notice of Public Information Centre associated with the above-noted project.

Name: _____
Agency (if applicable): _____
Address: _____
Email: _____

Based on the provided information, please advise as follows:

☐ I/We have no further interest in this project and can be removed from the project mailing list.

☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.

☐ I/We will be providing information and/or comment pertaining to this project under separate cover.

☐ I/We wish to be involved further in the project as noted below: _____

Notice of Study Completion

Reconstruction of Ferguson Lake Road Project (Phase I) Schedule B - Municipal Class Environmental Assessment

The Township of Greater Madawaska has completed the undertaking of a study to determine the most suitable alternative to reconstruct 5.7 km of Ferguson Lake Road, from approximately Campground Side Road to Kennelly Mountain Road. The project was implemented in order to improve road safety, efficiency, drainage, and active transportation uses. This Notice has been issued in order to notify the public of the study's completion.

How Might This Project Impact Me?

The study has been undertaken in accordance with a Schedule B Undertaking of the Municipal Class Environmental Assessment (MCEA, 2015), as amended. The Schedule B – MCEA study for Ferguson Lake Road has considered and assessed reconstruction alternatives, and the associated potential for impacts on the study area from each alternative.

In accordance with Township of Greater Madawaska *Council Resolution No. 167-21*, and based on careful consideration of the potential impacts of all alternatives, Municipal Council has confirmed the determination of the *Preferred Alternative* for the reconstruction of Ferguson Lake Road.

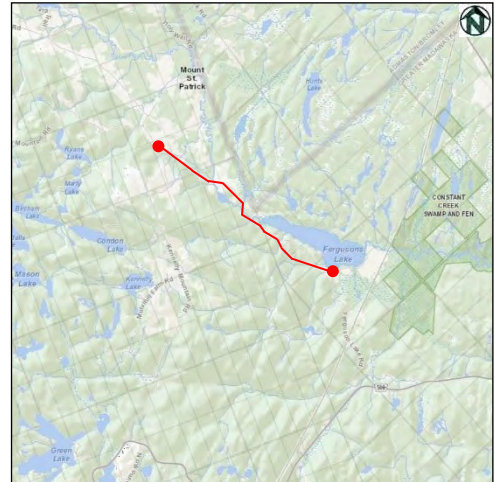
As part of this *Notice of Study Completion*, the *Preferred Alternative* for the road reconstruction project has been identified as:

Alternative #3 – Split 60 & 70 km/hr Design Speed Alignment (Modified)

This alternative involves a design speed of 60 km/hr from approximately Campground Side Road to Constant Creek Bridge, and a 70 km/hr design speed from Constant Creek Bridge to Kennelly Mountain Road.

The *Preferred Alternative* has been made by Municipal Council based on the results of the various studies completed, and input from agencies, the public, Indigenous Communities, and other interested parties.

As required by the MCEA Schedule B process, a *Project File Report* has been prepared, and has been posted for public review and comment at Township of Greater Madawaska's Website (<https://www.greatermadawaska.com/>).



Next Steps in the MCEA Schedule B Process

In accordance with the requirements of the MCEA Schedule B process, the Township is required to post the *Project File Report* for the *Reconstruction of Ferguson Lake Road Project (Phase 1)* to the public record for a thirty (30) day period. Detailed design work for the project will follow the thirty (30) day public review period.

Per the requirements of the Ontario Ministry of the Environment, Conservation, and Parks (January 05, 2021):

Interested persons may provide written comments to our project team by **August 21, 2021**. All comments and concerns should be sent directly to the Township of Greater Madawaska and Greenview Environmental Management Limited:

Owner:
Township of Greater Madawaska
Allison Holtzhauer
CAO/Clerk-Deputy Treasurer
19 Parnell Street
Calabogie, Ontario K0J 1H0
Tel: 613-752-2222
E-mail: cao@greatermadawaska.com

Prime Consultant:
Greenview Environmental Management Limited
Dan Hagan, P.Geo.
Senior Project Manager / Geologist
13 Commerce Court
Bancroft, Ontario K0L 1C0
Tel: 613-332-0057
E-mail: solutions@greenview-environmental.ca

In addition, a request may be made to the Ministry of the Environment, Conservation and Parks for an order requiring a higher level of study (i.e. requiring an individual/comprehensive Environmental Assessment approval before being able to proceed), or that conditions be imposed (e.g. require further studies), only on the grounds that the requested order may prevent, mitigate or remedy adverse impacts on constitutionally protected Aboriginal and treaty rights. Requests on other grounds will not be considered. Requests should include the requester contact information and full name.

Requests should specify what kind of order is being requested (request for conditions or a request for an individual/comprehensive environmental assessment), how an order may prevent, mitigate or remedy potential adverse impacts on Aboriginal and treaty rights, and any information in support of the statements in the request. This will ensure that the ministry is able to efficiently begin reviewing the request.

The request should be sent in writing or by email to:

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

and

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

Requests should also be copied to the CAO/Clerk-Deputy Treasurer at the Township of Greater Madawaska by mail or by e-mail. Please visit the ministry's website for more information on requests for orders under section 16 of the *Environmental Assessment Act* at:

<https://www.ontario.ca/page/class-environmental-assessments-part-ii-order>

All personal information included in your request – such as name, address, telephone number and property location – is collected, under the authority of Section 30 of the *Environmental Assessment Act* and is collected and maintained for the purpose of creating a record that is available to the general public. As this information is collected for the purpose of a public record, the protection of personal information provided in the *Freedom of Information and Protection of Privacy Act* (FIPPA) does not apply (s.37). 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.

This Notice is Issued July 22, 2021

Allison Holtzhauer
CAO/Clerk-Deputy Treasurer, Township of Greater Madawaska

Project Comment Form

**Re: Notice of Study Completion
Reconstruction of Ferguson Lake Road Project (Phase I)
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.21.025**

Please refer to the provided information and Notice of Study Completion associated with the above-noted project.

Name: _____
Agency (if applicable): _____
Address: _____
Email: _____

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☐ I/We wish to be involved further in the project as noted below:

Signature

Please return this completed form by **August 21, 2021** to:

Mr. Dan Hagan, P.Geo.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Tel: 613-332-0057

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Appendix F





Appendix F - 1a
Provincial Agencies & Authorities - Ontario
Initial Project Contact List & Consultation Summary
Project File Report
Municipal Class Environmental Assessment (Schedule B)
Reconstruction of Ferguson Lake Road (Phase 1)
Township of Greater Madawaska

First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Email	Initial Response Date and Comments	Action/Follow-up (if/as required)
David	Ho	Executive Vice-President	Procurement & Program Management	Infrastructure Ontario	24, 1 Dundas Street West		Toronto	Ontario	M5G 1Z3	(416) 314-5478		david.ho@infrastructureontario.ca	2020.06.23 - As per email received today by David Ho secretary. All communication should send to L. Myslicki. (lisa.myslicki@infrastructureontario.ca)	
Lisa	Myslicki	Environmental Specialist		Infrastructure Ontario	1 Dundas Street West	Suite 2000	Toronto	Ontario	M5G 2L5	(416) 212-3768		lisa.myslicki@infrastructureontario.ca	2020.06.23 - As per note above, all communication should be send to L. Myslicki.	
Grant	Karwacki	Director (Acting)	Corporate Policy Secretariat	Ontario Ministry of Energy, Northern Development and Mines	99 Wellesley Street West	5th Floor	Toronto	Ontario	M7A 1W3	(416) 327-0302		grant.karwacki@ontario.ca		
John	Whytock	Director, Communications	Communications Branch	Ontario Ministry of Energy, Northern Development and Mines	77 Grenville Street	7th Floor	Toronto	Ontario	M7A 2C1	(416) 327-6541		john.whytock@ontario.ca		
Jocelyn	Beatty	Rural Planner, Central-East & Northwestern Ontario	Land Use Policy & Stewardship	Ontario Ministry of Agriculture, Food and Rural Affairs	6484 Wellington Road 7		Elora	Ontario	N0B 1S0	(519) 546-7612		jocelyn.beatty@ontario.ca		
Trisha	Gibbons	Branch Administrative Coordinator	Environmental Management Branch	Ontario Ministry of Agriculture, Food and Rural Affairs	1 Stone Road West	3rd Floor	Guelph	Ontario	N1G 4Y2	(519) 820-6371		trisha.gibbons@ontario.ca		
Thom	Hagerty	Director	Environmental Management Branch	Ontario Ministry of Agriculture, Food and Rural Affairs	1 Stone Road West	3rd Floor	Guelph	Ontario	N1G 4Y2	(519) 826-4975		thom.hagerty@ontario.ca		
Nina	Arron	Director	Health Protection and Surveillance Policy and Programs Branch	Ontario Ministry of Health	393 University Avenue	21st Floor	Toronto	Ontario	M7A 2S1	(416) 212-4873		nina.aron@ontario.ca		
Travis	Kann	Director, Communications	Minister's Office	Ontario Ministry of Health	777 Bay Street	College Park 5th Floor	Toronto	Ontario	M7A 2J3			travis.kann@ontario.ca		
Shannon	Mooney	Manager (Acting)	CCAC Renfrew, Central East Field Office	Ontario Ministry of Health	490 Raglan Street North		Renfrew	Ontario	K7V 1P5	(613) 432-1260		Shannon.Mooney@ontario.ca		
Marysia	Szymczak	Director (Acting)	Communications Branch	Ontario Ministry of Health	438 University Avenue	8th Floor	Toronto	Ontario	M7A 1N3	(647) 289-7640		marysia.szymczak@ontario.ca		
Karla	Barboza	Team Lead, Heritage (Acting)	Heritage Planning Unit	Ontario Ministry of Heritage, Sport, Tourism and Culture Industries	401 Bay Street		Toronto	Ontario	M7A OA7	(416) 314-7120		karla.barboza@ontario.ca	2020.06.23 - Acknowledged received of Notice of Study Commencement. All documentation, notice of information to K. Livingstone and K. Barboza. They will review of the documentation and will provide preliminary comments by 2020.07.20.	
Katherine	Cappella	Manager	Archaeology Program Unit	Ontario Ministry of Heritage, Sport, Tourism and Culture Industries	401 Bay Street	Suite 1700	Toronto	Ontario	M7A OA7	(416) 212-1802		katherine.cappella@ontario.ca	2020.06.23 - As per email, remove from mailing list . Only send all documentation, notice of information to K. Livingstone and K. Barboza	
James	Hamilton	Manager	Heritage Planning Unit	Ontario Ministry of Heritage, Sport, Tourism and Culture Industries	401 Bay Street		Toronto	Ontario	M7A OA7	(416) 212-7505		james.hamilton@ontario.ca	2020.06.23 - As per email, remove from mailing list . Only send all documentation, notice of information to K. Livingstone and K. Barboza	
Kimberly	Livingstone	Heritage Planner (Acting)	Heritage Planning Unit	Ontario Ministry of Heritage, Sport, Tourism and Culture Industries	401 Bay Street		Toronto	Ontario	M7A OA7	(416) 314-7133		kimberly.livingstone@ontario.ca		
Emma	Jarvis	Senior Policy & Strategic Advisor (Acting)	Deputy Minister's Office	Ontario Ministry of Indigenous Affairs	160 Bloor Street East	Suite 400	Toronto	Ontario	M7A 2E6	(416) 357-5801		emma.jarvis@ontario.ca		
Sydney	Stonier	Director of Communications	Minister's Office	Ontario Ministry of Indigenous Affairs	160 Bloor Street East	Suite 400	Toronto	Ontario	M7A 2E6	(416) 219-3220		Sydney.Stonier@ontario.ca		
Tom	Zach	Director (Acting)	Communications Services Branch - Director's Office	Ontario Ministry of Indigenous Affairs	160 Bloor Street East	Suite 400	Toronto	Ontario	M7A 2E6	(416) 553-9946		tom.zach@ontario.ca		
Lisa	Legatto	Director (Acting)	Communications Branch - Deputy Minister's Office	Ontario Ministry of Infrastructure	777 Bay Street	4th Floor	Toronto	Ontario	M5G 2E5	(416) 325-3668		lisa.legatto@ontario.ca		



Appendix F - 1a
Provincial Agencies & Authorities - Ontario
Initial Project Contact List & Consultation Summary
Project File Report
Municipal Class Environmental Assessment (Schedule B)
Reconstruction of Ferguson Lake Road (Phase 1)
Township of Greater Madawaska

First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Email	Initial Response Date and Comments	Action/Follow-up (if/as required)
Zach	Potashner	Director of Policy	Minister's Office	Ontario Ministry of Infrastructure	777 Bay Street	5th Floor	Toronto	Ontario	M7A 2J3			zach.potashner@ontario.ca		
Michael	Elms	Manager	Community Planning & Development, Eastern Municipal Services Office	Ontario Ministry of Municipal Affairs & Housing	8 Estate Lane		Kingston	Ontario	K7M 9A8	(613) 545-2132		michael.elms@ontario.ca		
Sean	Fraser	Director (Acting)	Provincial Planning Policy Branch	Ontario Ministry of Municipal Affairs & Housing	777 Bay Street	13th Floor	Toronto	Ontario	M7A 2J3	(416) 585-6072		sean.fraser@ontario.ca		
Linda	Hawke	Director	Communications Branch - Deputy Minister's Office	Ontario Ministry of Municipal Affairs & Housing	777 Bay Street	17th Floor	Toronto	Ontario	M7A 2J3	(416) 585-6521		linda.hawke@ontario.ca		
Allan	Scott	Regional Director	Eastern Municipal Services Office	Ontario Ministry of Municipal Affairs & Housing	8 Estate Lane		Kingston	Ontario	K7M 9A8	(613) 545-2133		allan.scott@ontario.ca		
Tania	Baker	Management Biologist	Pembroke District	Ontario Ministry of Natural Resources and Forestry	31 Riverside Drive		Pembroke	Ontario	K8A 8R6	(613) 732-5582		tania.baker@ontario.ca		
Randy	McLaren	District Manager	Pembroke District	Ontario Ministry of Natural Resources and Forestry	31 Riverside Drive		Pembroke	Ontario	K8A 8R6	(613) 732-5520		randy.mclaren@ontario.ca		
Kristen	Wagner	District Planner	Pembroke District	Ontario Ministry of Natural Resources and Forestry	31 Riverside Drive		Pembroke	Ontario	K8A 8R6	(613) 732-5522		kristen.wagner@ontario.ca		
Tracy	Hart	Manager	Ottawa District Office	Ontario Ministry of the Environment, Conservation, and Parks	2430 Don Reid Drive	Unit 103	Ottawa	Ontario	K1H 1E1	(613) 521-3451	224	tracy.hart@ontario.ca		
Kathleen	O'Neill	Director, Environmental Assessment	Environmental Assessment Branch	Ontario Ministry of the Environment, Conservation, and Parks	135 St Clair Avenue West		Toronto	Ontario	M4V 1P5	(416) 314-0934		kathleen.oneill@ontario.ca		
Jon	Orpana	Environmental Planner & EA Coordinator	Environmental Assessment Branch (Eastern Region)	Ontario Ministry of the Environment, Conservation, and Parks	1259 Gardiners Road	Unit 3	Kingston	Ontario	K7P 3J6	(613) 548-6918		jon.orpana@ontario.ca		
Peter	Taylor	Director (Acting)	Eastern Region	Ontario Ministry of the Environment, Conservation, and Parks	1259 Gardiners Road	Unit 3	Toronto	Ontario	K7P 3J6	(613) 548-6901		peter.g.taylor@ontario.ca		
Gillian	Dagg	Head - Environmental	Eastern Region	Ontario Ministry of Transportation	1355 John Counter Boulevard	PO Box 4000	Kingston	Ontario	K7L 5A3	(613) 540-5149		Gillian.Dagg@ontario.ca		
Jeff	Hudebine	Regional Director (Acting)	Eastern Region	Ontario Ministry of Transportation	1355 John Counter Boulevard	PO Box 4000	Kingston	Ontario	K7L 5A3	(613) 545-4600		jeff.hudebine@ontario.ca		



Appendix F - 1b
Federal Agencies & Authorities - Canada
Initial Project Contact List & Consultation Summary
Project File Report
Municipal Class Environmental Assessment (Schedule B)
Reconstruction of Ferguson Lake Road (Phase 1)
Township of Greater Madawaska

First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Email	Initial Response Date and Comments	Action/Follow-up (if/as required)
				Canadian Transportation Agency			Ottawa	Ontario	K1A 0N9	(888) 222-2592		info@otc-cta.gc.ca		
Rob	Dobos	Manager	Environmental Protection Operations - Ontario	Environment and Climate Change Canada	867 Lakeshore Road, Office L509	5th Floor	Burlington	Ontario	L7S 1A1	(905) 336-4953		rob.dobos@canada.ca		
Wesley	Plant	Manager, Environmental Assessment Section - Ontario	Environmental Protection Operations - Ontario	Environment and Climate Change Canada	4905 Dufferin Street	2nd Floor	Toronto	Ontario	M3H 5T4	(416) 739-4272		wesley.plant@canada.ca		
Marysabel	Arauz	Administrative Clerk	Ecosystems Management, Regional Director's Office (Central & Arctic)	Fisheries and Oceans Canada	867 Lakeshore Road		Burlington	Ontario	L7R 4A6	(905) 336-4822				
Kristina	Hogan	Executive Assistant to the Regional Director	Ecosystems Management, Regional Director's Office (Central & Arctic)	Fisheries and Oceans Canada	867 Lakeshore Road		Burlington	Ontario	L7S 1A1	(905) 336-4524				
Jennifer	Kuss	Director of Communications	Minister's Office	Fisheries and Oceans Canada	200 Kent Street		Ottawa	Ontario	K1A 0E6	(613) 992-3474				
Debbie	Miller	Referrals Coordinator		Fisheries and Oceans Canada	401 King Street West	P.O. Box 1000	Prescott	Ontario	K0E 1T0	(613) 925-2865				
Greg	Carreau	A/Director General	Safe Environments Directorate	Health Canada						(613) 954-0291		greg.carreau@canada.ca		
Kitty	Ma	Environmental Assessment Coordinator		Health Canada	180 Queen Street West	10th Floor	Toronto	Ontario	M5V 3L7	(416) 954-2206				
Diane	McClymont-Peace	Director	Environmental Health Assessment	Health Canada	70 Colombine Drive Way		Ottawa	Ontario	K1A 0K9	(613) 946-9663				
David	McGovern	President	Headquarters	Impact Assessment Agency of Canada	160 Elgin Street	22nd Floor	Ottawa	Ontario	K1A 0H3	(613) 948-2671		david.mcgvorn@canada.ca		
Anjala	Puvananathan	Director	Ontario Regional Office	Impact Assessment Agency of Canada	600-55 York Street		Toronto	Ontario	M5J 1R7	(416) 952-1575		anjala.puvananathan@canada.ca		
Jeremy	Schultz	Administrative Officer	Ontario Regional Office	Impact Assessment Agency of Canada	55 York Street, 6th Floor		Toronto	Ontario	M5J 1R7	(416) 952-1576		jeremy.schultz@canada.ca		
Sunil	Bajaj	Manager	Environment, Lands & Economic Development, Ontario Region	Indigenous and Northern Affairs Canada	655 Bay Street	Suite 700, 8th Floor	Toronto	Ontario	M5G 2K4	(416) 973-4614		sunil.bajai@canada.ca		
Tina	Gallinger	Chief of Staff	Regional Director General Office, Ontario Region	Indigenous and Northern Affairs Canada	655 Bay Street	Suite 700, 9th Floor	Toronto	Ontario	M5G 2K4	(416) 973-1255		tina.gallinger2@canada.ca		
Shawn	Green	Environmental Officer		Indigenous and Northern Affairs Canada	25 St. Clair Avenue East	8th Floor	Toronto	Ontario	M4T 1M2	(416) 973-6234				
Patricia E.	Kell	Executive Director, Cultural Heritage	Office of the Executive Director, Cultural Heritage	Parks Canada	30 Victoria Street		Gatineau	Quebec	J8X 0B3	(819) 938-0379				
Dominic	Cliche	Director, Environmental Management	Environmental Programs	Transport Canada	330 Sparks Street		Ottawa	Ontario	K1A 0N5	(613) 291-6637		dominic.cliche@tc.gc.ca		



Appendix F - 1c
Municipal Agencies & Authorities - Upper/Lower Tier Municipalities & Emergency Services
Initial Project Contact List & Consultation Summary
Project File Report
Municipal Class Environmental Assessment (Schedule B)
Reconstruction of Ferguson Lake Road (Phase 1)
Township of Greater Madawaska

First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Email	Initial Response Date and Comments	Action/Follow-up (if/as required)
Michael	Behm	Manager of Infrastructure (Acting)	Public Works & Engineering	County of Renfrew	9 International Drive		Pembroke	Ontario	K8A 6W5	(613) 732-4353	478	mebehm@countvofrenfrew.on.ca		
Taylor	Hanrath	Infrastructure Coordinator	Public Works & Engineering	County of Renfrew	9 International Drive		Pembroke	Ontario	K8A 6W5	(613) 281-5090		thanrath@countvofrenfrew.on.ca		
Michael	Nolan	Chief, Paramedic Service & Director	Emergency Services	County of Renfrew	9 International Drive		Pembroke	Ontario	K8A 6W5	(613) 735-7288				
Lee	Perkins	Director	Public Works & Engineering	County of Renfrew	9 International Drive		Pembroke	Ontario	K8A 6W5	(613) 732-4353		LPerkins@countvofrenfrew.on.ca		
		Detachment Commander		Ontario Provincial Police	410 O'Brien Road		Renfrew	Ontario	K7V 3Z2	(613) 432-3211				
Melissa	Botz	Coordinator	Communications & Emergency Preparedness	Renfrew County & District Health Unit	7 International Drive		Pembroke	Ontario	K8A 6W5	(613) 735-8654		media@rcdhu.com		
Robert	Cushman	Local Medical Officer of Health (Acting)		Renfrew County & District Health Unit	7 International Drive		Pembroke	Ontario	K8A 6W5	(613) 732-3629				
Jaimie	Perry	Director of Education		Renfrew County Catholic District School Board	499 Pembroke Street West		Pembroke	Ontario	K8A 5P1	(613) 735-1031		jperry@rcdsb.edu.on.ca		
Pino	Buffone	Director of Education	Director's Office	Renfrew County District School Board	1270 Pembroke Street West		Pembroke	Ontario	K8A 4G4	(613) 735-0151	2232			
Luke	Desjardins	Manager of Planning and Development	Planning	Township of Greater Madawaska	19 Parnell Street	P.O. Box 180	Calabogie	Ontario	K0J 1H0	(613) 752-2029		ldesjardins@greatermadawaska.com		
Allison	Holtzhauer	CAO/Clerk-Treasurer	Administration	Township of Greater Madawaska	19 Parnell Street	P.O. Box 180	Calabogie	Ontario	K0J 1H0	(613) 752-2240		aholtzhauer@greatermadawaska.com		
Steve	Inwood	Public Works Manager (Acting)	Public Works	Township of Greater Madawaska	19 Parnell Street	P.O. Box 180	Calabogie	Ontario	K0J 1H0	(613) 752-2222	201	roads@greatermadawaska.com		
Darryl	Wagner	Fire Chief	Fire Department	Township of Greater Madawaska	19 Parnell Street	P.O. Box 180	Calabogie	Ontario	K0J 1H0	(613) 752-2277		firechief@greatermadawaska.com		



Appendix F - 1d
Public and Private Utilities
Initial Project Contact List & Consultation Summary
Project File Report
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Township of Greater Madawaska

First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Email	Initial Response Date and Comments	Action/Follow-up (if/as required)
Bonnie	Cattanach	Implementation Manager		Bell Canada	434 Pitt Street		Cornwall	Ontario	K6J 3R2	(613) 930-2564				
Christopher	Lockyer	Implementation Manager - Access Network Facilities		Bell Canada	450 Princess Street	P.O. Box 460	Kingston	Ontario	K7L 4W5	(613) 542-4636				
Brad	Wilson	Access Network Engineering Specialist		Bell Canada				Ontario		(613) 432-9101		Brad.wilson@bell.ca		
Michel	Blais	Vice President	Engineering & Operations	Cogeco Communications Inc.	5 Place Ville Marie	Suite 1700	Montreal	Quebec	H3B 0B3					
Geoff	Capes	Manager	Facilities	Cogeco Communications Inc.	950 Syscon Road	P.O. Box 5076	Burlington	Ontario	L7R 4S6	(905) 333-4990				
Mike	Johnson			Enbridge Consumer Gas	400 Coventry Road		Ottawa	Ontario	K1K 2C7					
			Eastern Region Lands Department, Enbridge Gas Head Office, Toronto	Enbridge Inc.	500 Consumers Road		North York	Ontario	M2J 1P8	(877) 362-7434		est.reg.crossing@enbridge.com		
Jonathan	Hale	Land Advisor		Enbridge Pipelines Inc.				Ontario		(905) 659-2084		est.reg.crossing@enbridge.com	2020.06.23 - As per email received today, Enbridge pipelines Inc does not have any assets in the area	
Terry	McNally	Area Operations Manager		Enbridge Pipelines Inc.	1086 Modeland Road	Building 1050	Sarnia	Ontario	N7S 6L2	(519) 339-0500				
Ann	Newman	Supervisor, Right-of-Way Services		Enbridge Pipelines Inc.	1086 Modeland Road	Building 1050	Sarnia	Ontario	N7S 6L2	(519) 339-0503				
Ashley	Cavanagh	Senior Planning Technician, Eastern Region	Perth Field Business Centre, Distribution Lines Work Management	Hydro One Networks Inc.	99 Drummond Street West		Perth	Ontario	K7H 3E7	(888) 332-2249	3204	ashley.cavanagh@HydroOne.com		
Kyle	Maynard	Supervising Technician		Hydro One Networks Inc.						(613) 623-2577	2216	kyle.maynard@HydroOne.com		
Laurie	Mosley	Area Distribution Engineering Tech	Amprior Work Centre	Hydro One Networks Inc.						(613) 623-2577	2227	laurie.mosley@hydroone.com		
Betty	Roberts	Planning Tech - Amprior & Vankleek Hill	Perth Field Business Centre, Distribution Lines Work Management	Hydro One Networks Inc.	99 Drummond Street West		Perth	Ontario	K7H 3E7	(613) 267-6473		betty.roberts@hydroone.com	2020.06.22 - As per email received today by B. Roberts, she no longer work for Amprior area. All communication should be send to EasternZonePlanning@hydroone.com	
Michelle	Stanzel	Zone Distribution Planning Tech	Distribution Work Management	Hydro One Networks Inc.						(888) 332-2249	3230	michelle.stanzel@HydroOne.com		



Appendix F - 1e
Stakeholders & Other Interested Parties
Initial Project Contact List & Consultation Summary
Project File Report
Municipal Class Environmental Assessment (Schedule B)
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Township of Greater Madawaska

First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Email	Initial Response Date and Comments	Action/Follow-up (if/as required)
Lynn	Gavin	President		DACA Community Center	111 Flat Road		Dacre	Ontario	K0J 1N0	(613) 649-2721				
		Owner(s)		Ferguson RV Sales / Ferguson Farm Campground	154 Campground Sideroad		Renfrew	Ontario	K7V 3Z7	(613) 432-5783				
John	Shaw	President		Herb Shaw & Sons Ltd.	31 Sharon Street		Pembroke	Ontario	K8A 7J5	(613) 732-9989		jshaw@shawlumber.ca		
Randy	Clough			Lake Front Cottage	624 Mill Street	P.O. Box 183	Calabogie	Ontario	K0J 1H0	(613) 325-5598				
Nick	Gooderham	General Manager		Ottawa Valley Forest Inc.	195 Brazeau Road		Pembroke	Ontario	K8A 6W4	613-735-1888	201	ngooderham@ovfi.ca		



Appendix F - 1f
Adjacent Property Owners
Initial Project Contact List & Consultation Summary
Project File Report
Municipal Class Environmental Assessment (Schedule B)
Reconstruction of Ferguson Lake Road (Phase 1)
Township of Greater Madawaska

First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Email	Initial Response Date and Comments	Action/Follow-up (if/as required)
				1270349 Ontario Inc.	306 Montfort Street		Vanier	Ontario	K1L 5N6					
				2480088 Ontario Inc.	105 Turner Court		Erin	Ontario	N0B 1H0					
				2644872 Ontario Inc.	27 Louisburg Crescent		Brampton	Ontario	L6X 3A7					
				8296901 Canada Incorporated	3452 Angel Pass Drive		Mississauga	Ontario	L5M 7N4					
				Integrated Forestreet Services Inc. c/o Andrew Boyd	P.O. Box 13593		Kanata	Ontario	K2K 1X6					
				Jacqstev Holding Inc.	86 Daniel Street South		Amprior	Ontario	K7S 2L7					
Derek C R	Benoit				188 Arthur Street		Amprior	Ontario	K7S 1A4					
William Arthur	Blair				1422 Kennelly Mountain Road	R.R. 4	Renfrew	Ontario	K7V 3Z7					
Andrew Kenneth	Boyd				387 Ridgeside Farm Drive		Kanata	Ontario	K2W 1H3					
Sheri	Boyden				259 Flodden Way		Nepean	Ontario	K2G 7E1					
Donald Harold	Burley				96 Rowe Drive		Kanata	Ontario	K2L 3Y9					
William Murray	Burns				3 Mount St., Patrick Road		Dacre	Ontario	K0J 1N0					
Deborah	Charbonneau				260 Brittany Drive, Apartment # 106		Ottawa	Ontario	K1K 4M2					
Wallace Leonard	Chippior				1120 Ferguson Lake Road	R.R. 4	Renfrew	Ontario	K7V 3Z7					
Bernadette Marie	Culhane				1159 Upper Dwyer Hill Road		Carp	Ontario	K0A 1L0					
Marcel	Ducharme				1039 Megan's Street		Kingston	Ontario	K7P 3E6					
Kevin	Etmanski				379 Upper Dwyer Hill Road		Ashton	Ontario	K0A 1B0					
Donna Marie	Ferguson				R.R. 34		Renfrew	Ontario	K7V 3Z7					
Jean	Grenon				1466 Tennyson Road		Perth	Ontario	K7H 3C8					
Kevin	Hunt				59 Campground Sideroad		Renfrew	Ontario	K7V 3Z7					
Richard Kent	Irving				714 Ferguson Lake Road		Renfrew	Ontario	K7V 3Z7					



Appendix F - 1f
Adjacent Property Owners
Initial Project Contact List & Consultation Summary
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Municipal Class Environmental Assessment (Schedule B)
Reconstruction of Ferguson Lake Road (Phase 1)
Township of Greater Madawaska

First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Email	Initial Response Date and Comments	Action/Follow-up (if/as required)
Thomas John	Kelly				149 Kellys Road		Renfrew	Ontario	K7V 3Z7					
Thomas Patrick	Lane				142 County Lane West		Kanata	Ontario	K2L 1J7					
Frederick R E	Little				15950 McLaughlin Road		Nestleton	Ontario	L0B 1L0					
David	Mohr				812 Ferguson Lake Road	R.R. 4	Renfrew	Ontario	K7V 3Z7					
Donna	Munro				39 Sherk Crescent		Kanata	Ontario	K2K 2L3					
Wilfred	O'Brien				1356 Ferguson Lake Road	R.R. 4	Renfrew	Ontario	K7V 3Z7					
Roderick Hugh	Paterson				772 Ferguson Lake Road		Renfrew	Ontario	K7V 3Z7					
Andrew	Penny				18 Kingsford Crescent		Kanata	Ontario	K2K 1T4					
Marnie	Peters				724 Ferguson Lake Road		Renfrew	Ontario	K7V 3Z7					
Allan	Phillips				33 Campground Sideroad		Renfrew	Ontario	K7V 3Z7					
Janie Margaret	Ralph				P.O. Box 88		Richmond	Ontario	K0A 2Z0					
Thomas Clair	Scully				38 Harry Street		Renfrew	Ontario	K7V 3C7					
Garry Martin	Switzer				116 Bonnie Lane		Kinburn	Ontario	K0A 2H0					
Kathleen	Teal				2168 Nature Trail Crescent		Orleans	Ontario	K1W 1E5					
Ashok	Tewary				20 Bedouin Crescent		Brampton	Ontario	L6P 4H3					
Michael William	Thompson				1342 Hanbury Street		Ottawa	Ontario	K2C 2M2					
Allan	Tink				2168 Nature Trail Crescent		Orleans	Ontario	K1W 1E5					
Paul	Vriend				8348 Van Rens Street	R.R. 3	Metcalfe	Ontario	K0A 2P0					



Appendix F - 1g
Indigenous Communities
Initial Project Contact List & Consultation Summary
Project File Report
Municipal Class Environmental Assessment (Schedule B)
Reconstruction of Ferguson Lake Road (Phase 1)
Township of Greater Madawaska

First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Website	Email (1)	Email (2)	Initial Response Date and Comments	Action/Follow-up (if/as required)
Dave	Mowat	Chief		Alderville First Nation	11696 Second Line Road		Roseneath	Ontario	K0K 2X0	(905) 352-2011		https://alderville.ca/	dmowat@alderville.ca	ismoke@alderville.ca		
Janet	Stavinga	Executive Director		Algonquins of Ontario	3 Riverside Drive	Suite 101	Pembroke	Ontario	K8A 8R6	(613) 735-3759		https://www.tanakiwin.com	algonquins@tanakiwin.com	jstavinga@tanakiwin.com		
Trevor	Parker	Land & Resource Management Strategist		Algonquins of Ontario	3 Riverside Drive	Suite 101	Pembroke	Ontario	K8A 8R6	(613) 735-3759		https://www.tanakiwin.com	tparker@tanakiwin.com			
Richard	Zohr	Chief		Bonnechere Algonquin First Nation	57 Bonnechere Street South		Renfrew	Ontario	K7V 1Z2	(613) 433-9085		http://bafn.ca/	bafn@nrtco.net			
Emily	Whetung	Chief		Curve Lake First Nation	22 Winookeedaa Road		Curve Lake	Ontario	K0L 1R0	(705) 657-8045		https://www.curvelakefirstnation.ca/	EmilyW@curvelake.ca	GeneralManager@curvelake.ca		
Laurie	Carr	Chief		Hiawatha First Nation	123 Paudash Street		Hiawatha	Ontario	K9J 0E6	(705) 295-4421		http://www.hiawathafirstnation.com/	chiefcarr@hiawathafn.ca	info@hiawathafn.ca		
Margaret	Froh	President	Head Office - Ottawa	Metis Nation of Ontario	66 Slater Street	Suite 1100	Ottawa	Ontario	K1P 5H1	(613) 798-1488		http://www.metisnation.org/	mno@metisnation.org			
Kelly	LaRocca	Chief		Mississaugas of Scugog Island First Nation	22521 Island Road		Port Perry	Ontario	L9L 1B6	(905) 985-3337		https://www.scugogfirstnation.com	info@scugogfirstnation.com			
Karry	Sandy-McKenzie	Williams Treaty Process Co-ordinator/Negotiator		Williams Treaties First Nation	8 Creswick Court		Barrie	Ontario	L4M 2J7	(705) 792-5087		unknown - online presence not well defined	k.a.sandy-mckenzie@rogers.com			



Appendix F - 2a
Provincial Agencies & Authorities - Ontario
Final Project Contact List & Consultation Summary
Project File Report
Municipal Class Environmental Assessment (Schedule B)
Reconstruction of Ferguson Lake Road (Phase 1)
Township of Greater Madawaska

First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Email	Initial Response Date and Comments	Action/Follow-up (if/as required)
Lisa	Myslicki	Environmental Specialist		Infrastructure Ontario	1 Dundas Street West	Suite 2000	Toronto	Ontario	M5G 2L5	(416) 212-3768		lisa.myslicki@infrastructureontario.ca	2020.06.23 - All communication to Infrastructure Ontario should be send to L. Myslicki.	
Grant	Karwacki	Director (Acting)	Corporate Policy Secretariat	Ontario Ministry of Energy, Northern Development and Mines	99 Wellesley Street West	5th Floor	Toronto	Ontario	M7A 1W3	(416) 327-0302		grant.karwacki@ontario.ca		
John	Whytock	Director, Communications	Communications Branch	Ontario Ministry of Energy, Northern Development and Mines	77 Grenville Street	7th Floor	Toronto	Ontario	M7A 2C1	(416) 327-6541		john.whytock@ontario.ca		
Jocelyn	Beatty	Rural Planner, Central-East & Northwestern Ontario	Land Use Policy & Stewardship	Ontario Ministry of Agriculture, Food and Rural Affairs	6484 Wellington Road 7		Elora	Ontario	N0B 1S0	(519) 546-7612		jocelyn.beatty@ontario.ca		
Trisha	Gibbons	Branch Administrative Coordinator	Environmental Management Branch	Ontario Ministry of Agriculture, Food and Rural Affairs	1 Stone Road West	3rd Floor	Guelph	Ontario	N1G 4Y2	(519) 820-6371		trisha.gibbons@ontario.ca		
Thom	Hagerty	Director	Environmental Management Branch	Ontario Ministry of Agriculture, Food and Rural Affairs	1 Stone Road West	3rd Floor	Guelph	Ontario	N1G 4Y2	(519) 826-4975		thom.hagerty@ontario.ca		
Nina	Arron	Director	Health Protection and Surveillance Policy and Programs Branch	Ontario Ministry of Health	393 University Avenue	21st Floor	Toronto	Ontario	M7A 2S1	(416) 212-4873		nina.arron@ontario.ca		
Travis	Kann	Director, Communications	Minister's Office	Ontario Ministry of Health	777 Bay Street	College Park 5th Floor	Toronto	Ontario	M7A 2J3			travis.kann@ontario.ca		
Shannon	Mooney	Manager (Acting)	CCAC Renfrew, Central East Field Office	Ontario Ministry of Health	490 Raglan Street North		Renfrew	Ontario	K7V 1P5	(613) 432-1260		Shannon.Mooney@ontario.ca		
Marysia	Szymczak	Director (Acting)	Communications Branch	Ontario Ministry of Health	438 University Avenue	8th Floor	Toronto	Ontario	M7A 1N3	(647) 289-7640		marysia.szymczak@ontario.ca		
Karla	Barboza	Team Lead, Heritage (Acting)	Heritage Planning Unit	Ontario Ministry of Heritage, Sport, Tourism and Culture Industries	401 Bay Street		Toronto	Ontario	M7A OA7	(416) 314-7120		karla.barboza@ontario.ca	2020.06.23 - Acknowledged receipt of Notice of Study Commencement. All documentation/information to K. Livingstone and K. Barboza. MHSTCI to review of the documentation and will provide preliminary comments by July 20, 2020.	
Laura	Hatcher	Heritage Planner	Heritage Planning Unit	Ontario Ministry of Heritage, Sport, Tourism and Culture Industries	401 Bay Street	Suite 1700	Toronto	Ontario	M7A OA7	(416) 239-3404		laura.e.hatcher@ontario.ca	2020.07.09 - Received response to Notice of Study Commencement. 2021.06.02 - K. Livingstone removed as contact, updated with L. Hatcher.	Jun04-21 - Email sent by GEML to update and provide info on PIC. 2021.06.14 - GEML provided PIC Event link.
Emma	Jarvis	Senior Policy & Strategic Advisor (Acting)	Deputy Minister's Office	Ontario Ministry of Indigenous Affairs	160 Bloor Street East	Suite 400	Toronto	Ontario	M7A 2E6	(416) 357-5801		emma.jarvis@ontario.ca		
Sydney	Stonier	Director of Communications	Minister's Office	Ontario Ministry of Indigenous Affairs	160 Bloor Street East	Suite 400	Toronto	Ontario	M7A 2E6	(416) 219-3220		Sydney.Stonier@ontario.ca		
Tom	Zach	Director (Acting)	Communications Services Branch - Director's Office	Ontario Ministry of Indigenous Affairs	160 Bloor Street East	Suite 400	Toronto	Ontario	M7A 2E6	(416) 553-9946		tom.zach@ontario.ca		
Lisa	Legatto	Director (Acting)	Communications Branch - Deputy Minister's Office	Ontario Ministry of Infrastructure	777 Bay Street	4th Floor	Toronto	Ontario	M5G 2E5	(416) 325-3668		lisa.legatto@ontario.ca		
Zach	Potashner	Director of Policy	Minister's Office	Ontario Ministry of Infrastructure	777 Bay Street	5th Floor	Toronto	Ontario	M7A 2J3			zach.potashner@ontario.ca		
Michael	Elms	Manager	Community Planning & Development, Eastern Municipal Services Office	Ontario Ministry of Municipal Affairs & Housing	8 Estate Lane		Kingston	Ontario	K7M 9A8	(613) 545-2132		michael.elms@ontario.ca		
Sean	Fraser	Director (Acting)	Provincial Planning Policy Branch	Ontario Ministry of Municipal Affairs & Housing	777 Bay Street	13th Floor	Toronto	Ontario	M7A 2J3	(416) 585-6072		sean.fraser@ontario.ca		
Linda	Hawke	Director	Communications Branch - Deputy Minister's Office	Ontario Ministry of Municipal Affairs & Housing	777 Bay Street	17th Floor	Toronto	Ontario	M7A 2J3	(416) 585-6521		linda.hawke@ontario.ca		



Appendix F - 2a
Provincial Agencies & Authorities - Ontario
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Project File Report
Municipal Class Environmental Assessment (Schedule B)
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First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Email	Initial Response Date and Comments	Action/Follow-up (if/as required)
Allan	Scott	Regional Director	Eastern Municipal Services Office	Ontario Ministry of Municipal Affairs & Housing	8 Estate Lane		Kingston	Ontario	K7M 9A8	(613) 545-2133		allan.scott@ontario.ca		
Tania	Baker	Management Biologist	Pembroke District	Ontario Ministry of Natural Resources and Forestry	31 Riverside Drive		Pembroke	Ontario	K8A 8R6	(613) 732-5582		tania.baker@ontario.ca		
Randy	McLaren	District Manager	Pembroke District	Ontario Ministry of Natural Resources and Forestry	31 Riverside Drive		Pembroke	Ontario	K8A 8R6	(613) 732-5520		randy.mclaren@ontario.ca		
Lauren	Trute	Management Biologist	Pembroke District	Ontario Ministry of Natural Resources and Forestry	31 Riverside Drive		Pembroke	Ontario	K8A 8R6	(613) 504-2257		Lauren.Trute@ontario.ca		
Karen	Handford	Resources Operations Supervisor	Pembroke District	Ontario Ministry of Natural Resources and Forestry	31 Riverside Drive		Pembroke	Ontario	K8A 8R6	(613) 585-3877		Karen.Handford@ontario.ca	Jun11-21 - Comment Form Received. No concerns or comments about the project at this time but asked to be kept informed about the progress of the project.	2021.06.14 - GEML provided PIC Event link.
Kristen	Wagner	District Planner	Pembroke District	Ontario Ministry of Natural Resources and Forestry	31 Riverside Drive		Pembroke	Ontario	K8A 8R6	(613) 732-5522		kristen.wagner@ontario.ca	2020.06.25 - Acknowledged receipt of Notice of Study Commencement. On maternity leave as of Jul01-20, as of now no replacement. 2020.06.25 - Email from MNRF Pembroke District Planner 2020.06.29 - Email received from K. Wagner (cc'd L. Trute on email). L. Trute is Management Biologist who will be reviewing this file. Potential comments coming directly from L. Trute. 2021.07.06 - Email received and Comment Form, no concerns or comments about the project at this time but wished to be kept informed.	2021.07.06 - GEML response to email and updated K. Wagner on MCEA Schedule B process.
Tracy	Hart	Manager	Ottawa District Office	Ontario Ministry of the Environment, Conservation, and Parks	2430 Don Reid Drive	Unit 103	Ottawa	Ontario	K1H 1E1	(613) 521-3451	224	tracy.hart@ontario.ca		
Kathleen	O'Neill	Director, Environmental Assessment	Environmental Assessment Branch	Ontario Ministry of the Environment, Conservation, and Parks	135 St Clair Avenue West		Toronto	Ontario	M4V 1P5	(416) 314-0934		kathleen.oneill@ontario.ca		
Jon	Orpana	Environmental Planner & EA Coordinator	Environmental Assessment Branch (Eastern Region)	Ontario Ministry of the Environment, Conservation, and Parks	1259 Gardiners Road	Unit 3	Kingston	Ontario	K7P 3J6	(613) 548-6918		jon.orpana@ontario.ca		
Peter	Taylor	Director (Acting)	Eastern Region	Ontario Ministry of the Environment, Conservation, and Parks	1259 Gardiners Road	Unit 3	Toronto	Ontario	K7P 3J6	(613) 548-6901		peter.g.taylor@ontario.ca		
Gillian	Dagg	Head - Environmental	Eastern Region	Ontario Ministry of Transportation	1355 John Counter Boulevard	PO Box 4000	Kingston	Ontario	K7L 5A3	(613) 540-5149		Gillian.Dagg@ontario.ca		
Jeff	Hudebine	Regional Director (Acting)	Eastern Region	Ontario Ministry of Transportation	1355 John Counter Boulevard	PO Box 4000	Kingston	Ontario	K7L 5A3	(613) 545-4600		jeff.hudebine@ontario.ca		



Appendix F - 2b
Federal Agencies & Authorities - Canada
Final Project Contact List & Consultation Summary
Project File Report
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Reconstruction of Ferguson Lake Road (Phase 1)
Township of Greater Madawaska

First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Email	Initial Response Date and Comments	Action/Follow-up (if/as required)
				Canadian Transportation Agency			Ottawa	Ontario	K1A 0N9	(888) 222-2592		info@otc-cta.gc.ca		
Rob	Dobos	Manager	Environmental Protection Operations - Ontario	Environment and Climate Change Canada	867 Lakeshore Road, Office L509	5th Floor	Burlington	Ontario	L7S 1A1	(905) 336-4953		rob.dobos@canada.ca		
Wesley	Plant	Manager, Environmental Assessment Section - Ontario	Environmental Protection Operations - Ontario	Environment and Climate Change Canada	4905 Dufferin Street	2nd Floor	Toronto	Ontario	M3H 5T4	(416) 739-4272		wesley.plant@canada.ca		
Marysabel	Arauz	Administrative Clerk	Ecosystems Management, Regional Director's Office (Central & Arctic)	Fisheries and Oceans Canada	867 Lakeshore Road		Burlington	Ontario	L7R 4A6	(905) 336-4822				
Kristina	Hogan	Executive Assistant to the Regional Director	Ecosystems Management, Regional Director's Office (Central & Arctic)	Fisheries and Oceans Canada	867 Lakeshore Road		Burlington	Ontario	L7S 1A1	(905) 336-4524				
Jennifer	Kuss	Director of Communications	Minister's Office	Fisheries and Oceans Canada	200 Kent Street		Ottawa	Ontario	K1A 0E6	(613) 992-3474				
Debbie	Miller	Referrals Coordinator		Fisheries and Oceans Canada	401 King Street West	P.O. Box 1000	Prescott	Ontario	K0E 1T0	(613) 925-2865				
Greg	Carreau	A/Director General	Safe Environments Directorate	Health Canada						(613) 954-0291		greg.carreau@canada.ca		
Kitty	Ma	Environmental Assessment Coordinator		Health Canada	180 Queen Street West	10th Floor	Toronto	Ontario	M5V 3L7	(416) 954-2206				
Sunil	Bajaj	Manager	Environment, Lands & Economic Development, Ontario Region	Indigenous and Northern Affairs Canada	655 Bay Street	Suite 700, 8th Floor	Toronto	Ontario	M5G 2K4	(416) 973-4614		sunil.bajaj@canada.ca		
Tina	Gallinger	Chief of Staff	Regional Director General Office, Ontario Region	Indigenous and Northern Affairs Canada	655 Bay Street	Suite 700, 9th Floor	Toronto	Ontario	M5G 2K4	(416) 973-1255		tina.gallinger2@canada.ca	2020.06.24 - T. Gallinger on holiday until Jun26-20. M. Owen replied on T. Gallinger's behalf. Acknowledge receipt of Notice of Study Commencement, will contact us if any questions.	
Shawn	Green	Environmental Officer		Indigenous and Northern Affairs Canada	655 Bay Street	Suite 700, 9th Floor	Toronto	Ontario	M5G 2K4	(416) 973-6234			2020.06.30 - Received letter back. Address not valid. Resent a new letter with updated address.	
Patricia E.	Kell	Executive Director, Cultural Heritage	Office of the Executive Director, Cultural Heritage	Parks Canada	30 Victoria Street		Gatineau	Quebec	J8X 0B3	(819) 938-0379				

Appendix F - 2c
Municipal Agencies & Authorities - Upper/Lower Tier Municipalities & Emergency Services
Final Project Contact List & Consultation Summary
Project File Report
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Reconstruction of Ferguson Lake Road (Phase 1)
Township of Greater Madawaska

First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Email	Initial Response Date and Comments	Action/Follow-up (if/as required)
Michael	Behm	Manager of Infrastructure (Acting)	Public Works & Engineering	County of Renfrew	9 International Drive		Pembroke	Ontario	K8A 6W5	(613) 732-4353	478	mebehm@countyofrenfrew.on.ca		
Taylor	Hanrath	Infrastructure Coordinator	Public Works & Engineering	County of Renfrew	9 International Drive		Pembroke	Ontario	K8A 6W5	(613) 281-5090		thanrath@countyofrenfrew.on.ca	2020.06.24 - Received Notice of Study Commencement. Would like to be involved further in the project. See notes on Study Commencement Comment Form. May31-21 - Response recieved Re: Interest in Public Information Centre.	2021.05.31 - GEMPL Response Re: participation in Public Information Centre. 2021.06.14 - GEMPL provided PIC Event link.
Michael	Nolan	Chief, Paramedic Service & Director	Emergency Services	County of Renfrew	9 International Drive		Pembroke	Ontario	K8A 6W5	(613) 735-7288				
Lee	Perkins	Director	Public Works & Engineering	County of Renfrew	9 International Drive		Pembroke	Ontario	K8A 6W5	(613) 732-4353		LPerkins@countyofrenfrew.on.ca		
Kaitlyn	Sarles	Detachment Admin Clerk	OPP Renfrew Detachment	Ontario Provincial Police	410 O'Brien Road		Renfrew	Ontario	K7V 3Z2	(613) 432-3211		Kaitlyn.Sarles@opp.ca	2021.06.02 - Email received with request for electronic versions of Notice of Public Information Centre and Comment Form.	2021.06.14 - GEMPL provided PIC Event link.
Melissa	Botz	Coordinator	Communications & Emergency Preparedness	Renfrew County & District Health Unit	7 International Drive		Pembroke	Ontario	K8A 6W5	(613) 735-8654		media@rcdhu.com		
Robert	Cushman	Local Medical Officer of Health (Acting)		Renfrew County & District Health Unit	7 International Drive		Pembroke	Ontario	K8A 6W5	(613) 732-3629		rcushman@rcdhu.com	2020.06.29 - Received the Notice of Study Commencement. Have no concerns or comments about the project at this time but wish to be kept informed anout the progress of the project.	
Jaimie	Perry	Director of Education		Renfrew County Catholic District School Board	499 Pembroke Street West		Pembroke	Ontario	K8A 5P1	(613) 735-1031		jerry@rcdcsb.edu.on.ca		
Pino	Buffone	Director of Education	Director's Office	Renfrew County District School Board	1270 Pembroke Street West		Pembroke	Ontario	K8A 4G4	(613) 735-0151	2232			
Luke	Desjardins	Manager of Planning and Development	Planning	Township of Greater Madawaska	19 Parnell Street	P.O. Box 180	Calabogie	Ontario	K0J 1H0	(613) 752-2029		ldesjardins@greatermadawaska.com		
Allison	Holtzhauer	CAO/Clerk-Treasurer	Administration	Township of Greater Madawaska	19 Parnell Street	P.O. Box 180	Calabogie	Ontario	K0J 1H0	(613) 752-2240		aholtzhauer@greatermadawaska.com		2021.06.14 - GEMPL provided PIC Event link.
Steve	Inwood	Public Works Manager (Acting)	Public Works	Township of Greater Madawaska	19 Parnell Street	P.O. Box 180	Calabogie	Ontario	K0J 1H0	(613) 752-2222	201	roads@greatermadawaska.com		2021.06.14 - GEMPL provided PIC Event link.
Darryl	Wagner	Fire Chief	Fire Department	Township of Greater Madawaska	19 Parnell Street	P.O. Box 180	Calabogie	Ontario	K0J 1H0	(613) 752-2277		firechief@greatermadawaska.com		



Appendix F - 2d
Public and Private Utilities
Final Project Contact List & Consultation Summary
Project File Report
Municipal Class Environmental Assessment (Schedule B)
Reconstruction of Ferguson Lake Road (Phase 1)
Township of Greater Madawaska

First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Email	Initial Response Date and Comments	Action/Follow-up (if/as required)
Brad	Wilson	Access Network Engineering Specialist		Bell Canada				Ontario		(613) 432-9101		Brad.wilson@bell.ca		
Mathieu	St Louis	Primary Engineering		Bell Canada						cell # (613) 432-0396		Mathieu.stlouis@bell.ca	2020.07.28 - Primary contact for this project for all future communications. 2021.05.31 - Response Re: Interest in Public Information Centre. Public Information Centre Comment Form received. No concerns or comments about the project at this time but wish to be kept informed.	2021.06.14 - GEML provided PIC Event link.
Ashley	Cavanagh	Senior Planning Technician, Eastern Region	Perth Field Business Centre, Distribution Lines Work Management	Hydro One Networks Inc.	99 Drummond Street West		Perth	Ontario	K7H 3E7	(888) 332-2249	3204	ashley.cavanagh@HydroOne.com		
Kyle	Maynard	Supervising Technician		Hydro One Networks Inc.						(613) 623-2577	2216	kyle.maynard@HydroOne.com		
Laurie	Mosley	Area Distribution Engineering Tech	Arnprior Work Centre	Hydro One Networks Inc.						(613) 623-2577	2227	laurie.mosley@hydroone.com		
Kayla	St. Pierre	Lines Customer Support Clerk	Perth Field Business Centre, Distribution Lines Work Management	Hydro One Networks Inc.	99 Drummond Street West		Perth	Ontario	K7H 3E7	888-332-2249	3247	Kayla.St.Pierre@HydroOne.com	2021.01.09 - Primary Contact Re Design & Pole Relocations.	
Cara	Thomson	Lines Customer Support Clerk	Perth Field Business Centre, Distribution Lines Work Management	Hydro One Networks Inc.	99 Drummond Street West		Perth	Ontario	K7H 3E7	888-332-2249		Cara.Thomson@HydroOne.com	2021.05.28 - C. Thomson added to contact list per email received.	2021.06.14 - GEML provided PIC Event link.
				Hydro One Networks Inc.								EasternZonePlanning@hydroone.com		
Michelle	Stanzel	Zone Distribution Planning Tech	Distribution Work Management	Hydro One Networks Inc.						(888) 332-2249	3230	michelle.stanzel@HydroOne.com		



Appendix F - 2e
Stakeholders & Other Interested Parties
Final Project Contact List & Consultation Summary
Project File Report
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First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Email	Initial Response Date and Comments	Action/Follow-up (if/as required)
Lynn	Gavin	President		DACA Community Center	111 Flat Road		Dacre	Ontario	K0J 1N0	(613) 649-2721				
		Owner(s)		Ferguson RV Sales / Ferguson Farm Campground	154 Campground Sideroad		Renfrew	Ontario	K7V 3Z7	(613) 432-5783				
John	Shaw	President		Herb Shaw & Sons Ltd.	31 Sharon Street		Pembroke	Ontario	K8A 7J5	(613) 732-9989		jshaw@shawlumber.ca		
Randy	Clough			Lake Front Cottage	624 Mill Street	P.O. Box 183	Calabogie	Ontario	K0J 1H0	(613) 325-5598				
Nick	Gooderham	General Manager		Ottawa Valley Forest Inc.	195 Brazeau Road		Pembroke	Ontario	K8A 6W4	613-735-1888	201	ngooderham@ovfi.ca		



Appendix F - 2f
Adjacent Property Owners
Final Project Contact List & Consultation Summary
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First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Email	Initial Response Date and Comments	Action/Follow-up (if/as required)
				1270349 Ontario Inc.	306 Montfort Street		Vanier	Ontario	K1L 5N6					
				2480088 Ontario Inc.	105 Turner Court		Erin	Ontario	N0B 1H0					
				2644872 Ontario Inc.	27 Louisburg Crescent		Brampton	Ontario	L6X 3A7					
				8296901 Canada Incorporated	3452 Angel Pass Drive		Mississauga	Ontario	L5M 7N4					
Andrew	Boyd			Integrated Forestry Services Inc. c/o Andrew Boyd	P.O. Box 13593		Kanata	Ontario	K2K 1X6			aboyd@ifsassociates.ca	2020.07.16 - Notice of Study Commencement Received. No concerns or comments about the project at this time but wish to be kept informed about the progress of the project. 2021.05.31 - Response Re: Interest in Public Information Centre. PIC Comment Form received. Will be providing information and/or comment pertaining to this project under separate cover.	2021.05.31 - PIC Event schedule info sent by GEML. 2021.06.14 - GEML provided PIC Event link.
				Jacqstev Holding Inc.	86 Daniel Street South		Arnprior	Ontario	K7S 2L7					
Derek C R	Benoit				188 Arthur Street		Arnprior	Ontario	K7S 1A4					
William Arthur	Blair				1422 Kennelly Mountain Road	R.R. 4	Renfrew	Ontario	K7V 3Z7					
Andrew Kenneth	Boyd				387 Ridgeside Farm Drive		Kanata	Ontario	K2W 1H3					
Sheri	Boyden				259 Flodden Way		Nepean	Ontario	K2G 7E1					
Donald Harold	Burley				96 Rowe Drive		Kanata	Ontario	K2L 3Y9					
Deborah	Charbonneau				260 Brittany Drive, Apartment # 106		Ottawa	Ontario	K1K 4M2					
Wallace Leonard	Chippior				1120 Ferguson Lake Road	R.R. 4	Renfrew	Ontario	K7V 3Z7	613-432-6713			2021.06.13 - Email received Re: Interest in Public Information Centre.	2021.06.14 - GEML provided PIC Event link.
Serge & Nicole	Poirier				682 Ferguson Lake Road		Renfrew	Ontario	K7V 3Z7			sergepoirier007@gmail.com	2020.06.29 - New owner of 682 Ferguson Lake Road. All paperwork sent to new owner on 2020.06.30. 2020.07.28 - Notice of Study Commencement received. Interest to be involved further in the project. Would like to see drainage improvements.	
Marcel & Janice	Ducharme				1039 Megan's Street		Kingston	Ontario	K7P 3E6	613-541-8152		mjducharme@sympatico.ca	2020.07.23 - Notice of Study Commencement received. Interest to be involved further in the project. Drainage / road widening concerns noted. 2021.06.10 - Response Re: Interest in PIC. PIC Comment Form received. Wish to be involved further in the project. Property Info - BLYTHFIELD CON 4 PT LOT 29 RP 49R17343 PART 3 IRREG 13.49 AC.	2021.06.14 - GEML provided PIC Event link.
Kevin	Etmanski				379 Upper Dwyer Hill Road		Ashton	Ontario	K0A 1B0					
Donna Marie	Ferguson				R.R. 34		Renfrew	Ontario	K7V 3Z7					



Appendix F - 2f
Adjacent Property Owners
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First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Email	Initial Response Date and Comments	Action/Follow-up (if/as required)
Jean	Grenon				1466 Tennyson Road		Perth	Ontario	K7H 3C8					
Kevin	Hunt				59 Campground Sideroad		Renfrew	Ontario	K7V 3Z7					
Richard Kent	Irving				714 Ferguson Lake Road		Renfrew	Ontario	K7V 3Z7			RIrving@karson.ca	2021.06.15 - Email received Re: Interest in PIC	2021.06.14 - GEML provided PIC Event link.
Thomas John	Kelly				149 Kellys Road		Renfrew	Ontario	K7V 3Z7					
Thomas Patrick	Lane				142 County Lane West		Kanata	Ontario	K2L 1J7			patrickT_5@sympatica.ca	2020.07.13 - Notice of Study Commencement received. No concerns or comments about the project at this time but wish to be kept informed about the progress of the project.	
Frederick R E	Little				15950 McLaughlin Road		Nestleton	Ontario	L0B 1L0			tlcclayton@hotmail.com	2021.06.16 - Project Comment Form Received. Address update: 1100 Hidden Lane, Renfrew, ON (Partner identified as T.L. Clayton). Unable to attend the PIC event. Would like more info send to them.	2021.06.16 - GEML sent email response with links to Township Website
Clayton	Tara Lee				15950 McLaughlin Road		Nestleton	Ontario	L0B 1L0			tlcclayton@hotmail.com	2021.06.16 - Project Comment Form Received. Address update: 1100 Hidden Lane, Renfrew, ON (Partner identified as Frederick Little). Unable to attend the PIC event. Would like more info send to them.	2021.06.16 - GEML sent email response with links to Township Website
Kerry-Lynn	Mohr				812 Ferguson Lake Road	R.R. 4	Renfrew	Ontario	K7V 3Z7			klmohr17@icloud.com	2020.07.06 - Email received would like to be involved in the MCEA process. Requested information on the design speed, lane widths, shoulder widths and alignment options. Concerns with sight lines along the roadway and drainage. Would like to be kept on the mailing list. Email sent to GEML for reply. 2021.05.31 - Response Re: Interest in PIC.	2021.06.14 - GEML provided PIC Event link.
David	Mohr				812 Ferguson Lake Road	R.R. 4	Renfrew	Ontario	K7V 3Z7			klmohr17@icloud.com	2020.07.06 - Email received would like to be involved in the MCEA process. Requested information on the design speed, lane widths, shoulder widths and alignment options. Concerns with sight lines along the roadway and drainage. Would like to be kept on the mailing list. Email sent to GEML for reply. 2021.05.31 - Response Re: Interest in PIC.	2020.07.13 - GEML sent email requesting the Notice of Study Commencement Comment Form to be included in project file. 2021.05.31 - Would like to participate for the virtual public information centre. Jun16-21 - Info sent by Dan, see COR/OUT.
Donna	Munro				39 Sherk Crescent		Kanata	Ontario	K2K 2L3					
Wilfred	O'Brien				1356 Ferguson Lake Road	R.R. 4	Renfrew	Ontario	K7V 3Z7			obrienwilf@yahoo.ca	2020.07.10 - Notice of Study Commencement received - Interest to be involved further in the project. 2021.06.15 - Notice of Public Information Centre received. Interested to be involved further in the project.	2021.06.15 - Event schedule info sent by GEML. 2021.06.16 - Info sent by GEML.
Sharon	Paterson				772 Ferguson Lake Road		Renfrew	Ontario	K7V 3Z7			sharon.paterson97@gmail.com		2021.06.14 - GEML provided PIC Event link.



Appendix F - 2f
Adjacent Property Owners
Final Project Contact List & Consultation Summary
Project File Report
Municipal Class Environmental Assessment (Schedule B)
Reconstruction of Ferguson Lake Road (Phase 1)
Township of Greater Madawaska

First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Email	Initial Response Date and Comments	Action/Follow-up (if/as required)
Roderick Hugh	Paterson				772 Ferguson Lake Road		Renfrew	Ontario	K7V 3Z7			rodp56@gmail.com	2020.07.06 - Email received would like to be involved in the MCEA process and be kept on the mailing list. Email sent to DMH for reply. 2021.06.01 - Response Re Interest in PIC	2020.07.13 - GEML sent email requesting Project Comment Form so that it could be included it in the project file. 2021.06.01 - Would like to participate for the virtual public information centre. Jun01-21 - Event schedule info sent by Dan. 2021.06.14 - GEML provided PIC Event link.
Andrew	Penny				18 Kingsford Crescent		Kanata	Ontario	K2K 1T4				2021.06.04 - Email received & questions Re: Ferguson Lake Road.	2021.06.04 - GEML sent email to answer questions. 2021.06.14 - GEML provided PIC Event link.
Marnie	Peters				724 Ferguson Lake Road		Renfrew	Ontario	K7V 3Z7			peters.marnie@gmail.com	2020.07.06 - Email received looking for additional information. Email sent to GEML for reply. 2021.06.01 - Response Re: Interest in PIC. PIC Comment Form received. Interested to be involved further in the project. 2021.07.12 - Email received with additional questions/comments.	2020.07.13 - GEML sent email requesting the Notice of Study Commencement Comment Form so that it could be included in the project file. 2021.06.01 - Event schedule info sent by GEML. 2021.06.03 - Email received - Re: Questions and requesting more info for the construction of FLR. 2021.06.04 - GEML sent email to answer questions. 2021.06.14 - GEML provided PIC Event link. 2021.07.14 - GEML sent email response to additional questions/comments.
Allan	Phillips				33 Campground Sideroad		Renfrew	Ontario	K7V 3Z7					
Janie Margaret	Ralph				P.O. Box 88		Richmond	Ontario	K0A 2Z0					
Thomas Clair	Scully				38 Harry Street		Renfrew	Ontario	K7V 3C7					
Garry Martin	Switzer				116 Bonnie Lane		Kinburn	Ontario	K0A 2H0				2020.07.13 - Notice of Study Commencement received. No concerns or comments about the project at this time but wish to be kept informed about the progress of the project.	
Kathleen	Teal				2168 Nature Trail Crescent		Orleans	Ontario	K1W 1E5					
Ashok	Tewary				20 Bedouin Crescent		Brampton	Ontario	L6P 4H3					
Michael William	Thompson				1342 Hanbury Street		Ottawa	Ontario	K2C 2M2			uptohere@hotmail.com	2021.06.03 - Response Re: Interest in PIC	2021.06.14 - GEML provided PIC Event link.
Allan	Tink				2168 Nature Trail Crescent		Orleans	Ontario	K1W 1E5					
Ed	Tink				891 Stones Lake Road		Calabogie	Ontario	K0J 1H0	(613) 282-6883		ed.j.tink@gmail.com	2021.05.31 - Response Re: Interest in PIC	2021.06.14 - GEML provided PIC Event link.
Paul	Vriend				8348 Van Rens Street	R.R. 3	Metcalfe	Ontario	K0A 2P0				2021.06.04 - Response Re: Interest in PIC	2021.06.14 - GEML provided PIC Event link.
Robert	Posteraro											rposter35@hotmail.com	2021.05.31 - Response Re: Interest in PIC	2021.06.14 - GEML provided PIC Event link.
Primrose	Blair											mountainridge1422@hotmail.com	2021.06.03 - Response Re: Interest in PIC.	2021.06.03 - Event schedule info sent by GEML plus more info on the project. 2021.06.14 - GEML provided PIC Event link.
Cheryl	Grass				32 Bartkett Cr.,		London	Ontario	N6K 1W4			cherylgrass@sympatico.ca	2021.06.17 - Received Comment Form - No concerns or comments but would like to be kept informed.	



Appendix F - 2g
Indigenous Communities
Final Project Contact List & Consultation Summary
Project File Report
Municipal Class Environmental Assessment (Schedule B)
Reconstruction of Ferguson Lake Road (Phase 1)
Township of Greater Madawaska

First Name	Last Name	Job Title	Office	Company / Agency	Address (1)	Address (2)	City	Prov	Postal Code	Telephone	Ext.	Website	Email 1	Email 2	Initial Response Date and Comments	Action/Follow-up (if/as required)
Dave	Mowat	Chief		Alderville First Nation	11696 Second Line Road		Roseneath	Ontario	K0K 2X0	(905) 352-2011		https://alderville.ca/	dmowat@alderville.ca	jsmoke@alderville.ca	No response received from any communications	
Janet	Stavinga	Executive Director		Algonquins of Ontario	3 Riverside Drive	Suite 101	Pembroke	Ontario	K8A 8R6	(613) 735-3759		https://www.tanakiwin.com	algonquins@tanakiwin.com	jstavinga@tanakiwin.com	2021.07.15 - Received Comment Form - No comment in response to the reconstruction of FLR.	2021.07.16 - GEML response re: email received on Jul15-21.
Trevor	Parker	Land & Resource Management Strategist		Algonquins of Ontario	3 Riverside Drive	Suite 101	Pembroke	Ontario	K8A 8R6	(613) 735-3759		https://www.tanakiwin.com	tparker@tanakiwin.com		No response received from any communications	
Richard	Zohr	Chief		Bonnechere Algonquin First Nation	57 Bonnechere Street South		Renfrew	Ontario	K7V 1Z2	(613) 433-9085		http://bafn.ca/	bafn@nrtco.net		No response received from any communications	
Emily	Whetung	Chief		Curve Lake First Nation	22 Winookeedaa Road		Curve Lake	Ontario	K0L 1R0	(705) 657-8045		https://www.curvelakefirstnation.ca/	EmilyW@curvelake.ca	GeneralManager@curvelake.ca	No response received from any communications	
Laurie	Carr	Chief		Hiawatha First Nation	123 Paudash Street		Hiawatha	Ontario	K9J 0E6	(705) 295-4421		http://www.hiawathafirstnation.com/	chiefcarr@hiawathafn.ca	info@hiawathafn.ca	No response received from any communications	
Margaret	Froh	President	Head Office - Ottawa	Metis Nation of Ontario	66 Slater Street	Suite 1100	Ottawa	Ontario	K1P 5H1	(613) 798-1488		http://www.metisnation.org/	mno@metisnation.org		No response received from any communications	
Kelly	LaRocca	Chief		Mississaugas of Scugog Island First Nation	22521 Island Road		Port Perry	Ontario	L9L 1B6	(905) 985-3337		https://www.scugogfirstnation.com	info@scugogfirstnation.com	msanford@scugogfirstnation.com	2021.07.21 - Received Comment Form - No comment in response to the reconstruction of FLR.	
Karry	Sandy-McKenzie	Williams Treaty Process Co-ordinator/Negotiator		Williams Treaties First Nation	8 Creswick Court		Barrie	Ontario	L4M 2J7	(705) 792-5087		unknown - online presence not well defined	k.a.sandy-mckenzie@rogers.com		No response received from any communications	



Public Information Centre Contact List for Emailing of Meeting Link
Reconstruction of Ferguson Lake Road Project
Township of Greater Madawaska
102.21.025

Email	First Name	Last Name	Agency / Authority
mountainridge1422@hotmail.com	Primrose	Blair	Adjacent Property Owner
forestry99@gmail.com	Andrew	Boyd	Adjacent Property Owner
wchippior@gmail.com	Wally & Sandra	Chippior	Adjacent Property Owner
miducharme@sympatico.ca	Marcel & Janice	Ducharme	Adjacent Property Owner
RIrving@karson.ca	Richard	Irving	Adjacent Property Owner
klmohr17@icloud.com	Kerry-Lynn	Mohr	Adjacent Property Owner
obrienwlf@yahoo.ca	Wilfred	O'Brien	Adjacent Property Owner
rodp56@gmail.com	Rod	Paterson	Adjacent Property Owner
sharon.paterson97@gmail.com	Sharon	Paterson	Adjacent Property Owner
apenny@kingsfordconsulting.ca	Andrew	Penny	Adjacent Property Owner
peters.marnie@gmail.com	Marnie	Peters	Adjacent Property Owner
uptohere@hotmail.com	Mike	Thompson	Adjacent Property Owner
ed.j.tink@gmail.com	Ed	Tink	Adjacent Property Owner
familyvriend@rogers.com	Paul & Diane	Vriend	Adjacent Property Owner
mathieu.stlouis@bell.ca	Mathieu	St. Louis	Bell Canada
THanrath@countyofrenfrew.on.ca	Taylor	Hanrath	County of Renfrew
laura.e.hatcher@ontario.ca	Laura	Hatcher	Heritage, Sport, Tourism, & Culture Industries
Cara.Thomson@HydroOne.com	Cara	Thomson	Hydro One
Karen.Handford@ontario.ca	Karen	Handford	MNRF - Resources Operations Supervisor - Pembroke
Kaitlyn.Sarles@opp.ca	Kaitlyn	Sarles	OPP - Renfrew Detachment
sinwood@greatermadawaska.com	Steve	Inwood	TGM - Acting Public Works Manager
aholtzhauer@greatermadawaska.com	Allison	Holtzhauer	TGM - CAO/Clerk-Treasurer
lperrier@greatermadawaska.com	Lucie	Perrier	TGM - Councillor Ward 1
crigelhof@greatermadawaska.com	Chuck	Rigelhof	TGM - Councillor Ward 1
jfrost@greatermadawaska.com	John	Frost	TGM - Councillor Ward 2
gmacpherson@greatermadawaska.com	Glen	MacPherson	TGM - Councillor Ward 3
bhunt@greatermadawaska.com	Brian	Hunt	TGM - Mayor
treasurer@greatermadawaska.com	Renee	Mask	TGM - Treasurer - Deputy CAO/Clerk
rpostera35@hotmail.com	Robert	Posteraro	Unknown

Dan Hagan (Greenview)

From: Tyler Peters (Greenview)
Sent: Wednesday, January 8, 2020 12:14 PM
To: Orpana, Jon (MECP)
Cc: Dan Hagan (Greenview)
Subject: Initial MCEA Pre-Consultation for the Rehabilitation of Ferguson Lake Road, Township of Greater Madawaska (102.19.025)

Hi Jon,

Greenview has been retained by the Township of Greater Madawaska as their engineering consultant to undertake the planning and design processes to rehabilitate approximately 5.0km of a municipal road, Ferguson Lake Road (<https://www.google.ca/maps/place/Ferguson+Lake+Rd,+Greater+Madawaska,+ON+K7V+3Z7/@45.302529,-76.8535903,13.75z/data=!4m5!3m4!1s0x4cd3ce280cba9de3:0xbddf40e0a89a3610!8m2!3d45.3003524!4d-76.8551858>), near Calabogie, Ontario.

The overall objective of the project is to upgrade the existing road to a 90 km/h design speed (currently 50-60km/h), with associated road widenings, realignments, and to address associated road safety issues accordingly. The road realignments are expected to encroach on private properties outside of the road right-of-way, and land acquisitions are expected. The very preliminary overall project cost estimate is in the range of \$4.0M.

Considering the above, we are requesting the Ministry's assistance with respect to identifying the applicable Schedule of the MCEA. From our initial review, we are currently noting the following activities may be applicable from the MEA Manual Appendix 1 – Project Schedules: 1, 2, 3, 5, 12, 17, 18, 19, 20 (widenings), 21 (sections), 22 (active transportation), 27, 29, 34, 39, 41.

If you require a formal letter to be submitted in this regard, please advise. Otherwise, we'd appreciate a response at your earliest convenience, and please don't hesitate to contact me with any questions or for clarification.

Cheers,

Tyler Peters, P.Eng.

Project Director



613.332.0057 x 102

greenview-environmental.ca

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Dan Hagan (Greenview)

From: Orpana, Jon (MECP) <Jon.Orpana@ontario.ca>
Sent: Wednesday, January 8, 2020 12:46 PM
To: Tyler Peters (Greenview)
Cc: Dan Hagan (Greenview)
Subject: RE: Initial MCEA Pre-Consultation for the Rehabilitation of Ferguson Lake Road, Township of Greater Madawaska (102.19.025)

Hi Tyler,

Thanks for your email.

But as this is a proponent driven process it is incumbent upon the proponent to determine the appropriate schedule provided the scope and breadth of the project. I not a municipal engineer. Road projects are even more outside our typical knowledge and experience base. If you require guidance regarding the MEA manual I would direct you to the Municipal Engineers Association for clarification or guidance.

Regards,

Jon

Jon Orpana,
Environmental Planner / Environmental Assessment Coordinator
Ontario Ministry of the Environment, Conservation and Parks
1259 Gardiners Road, Unit 3
Kingston, Ontario
K7P 3J6

Cell Ph. 613-561-8250
Phone Number. 613 548-6918
jon.orpana@ontario.ca

From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: January 8, 2020 11:14 AM
To: Orpana, Jon (MECP) <Jon.Orpana@ontario.ca>
Cc: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Subject: Initial MCEA Pre-Consultation for the Rehabilitation of Ferguson Lake Road, Township of Greater Madawaska (102.19.025)

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi Jon,

Greenview has been retained by the Township of Greater Madawaska as their engineering consultant to undertake the planning and design processes to rehabilitate approximately 5.0km of a municipal road, Ferguson Lake Road (<https://www.google.ca/maps/place/Ferguson+Lake+Rd,+Greater+Madawaska,+ON+K7V+3Z7/@45.302529,->

[76.8535903,13.75z/data=!4m5!3m4!1s0x4cd3ce280cba9de3:0xbddf40e0a89a3610!8m2!3d45.3003524!4d-76.8551858](#)), near Calabogie, Ontario.

The overall objective of the project is to upgrade the existing road to a 90 km/h design speed (currently 50-60km/h), with associated road widenings, realignments, and to address associated road safety issues accordingly. The road realignments are expected to encroach on private properties outside of the road right-of-way, and land acquisitions are expected. The very preliminary overall project cost estimate is in the range of \$4.0M.

Considering the above, we are requesting the Ministry's assistance with respect to identifying the applicable Schedule of the MCEA. From our initial review, we are currently noting the following activities may be applicable from the MEA Manual Appendix 1 – Project Schedules: 1, 2, 3, 5, 12, 17, 18, 19, 20 (widenings), 21 (sections), 22 (active transportation), 27, 29, 34, 39, 41.

If you require a formal letter to be submitted in this regard, please advise. Otherwise, we'd appreciate a response at your earliest convenience, and please don't hesitate to contact me with any questions or for clarification.

Cheers,

Tyler Peters, P.Eng.

Project Director



613.332.0057 x 102

greenview-environmental.ca

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Dan Hagan (Greenview)

From: Tyler Peters (Greenview)
Sent: Wednesday, May 20, 2020 10:03 AM
To: Michael Behm; Taylor Hanrath
Cc: Dan Hagan (Greenview); Tyler Casey (Greenview); Lee Perkins; Allison Holtzhauer (aholtzhauer@greatermadawaska.com); Steve Inwood (sinwood@greatermadawaska.com)
Subject: RE: County Pre-Consultation for Ferguson Lake Road Rehabilitation, Twp of Greater Madawaska, ON (102.29.025)
Attachments: Ferguson Lake Road Structures Map.pdf; C058 OSIM 2018.pdf
Importance: High

Good morning, Mike & Taylor;

I trust you are keeping well –

On behalf of the Township of Greater Madawaska, Greenview is proceeding with the Municipal Class EA process for the reconstruction of Ferguson Lake Road. The County will be included as a stakeholder in this process, and will be receiving an initial notice in the near future.

Further to the above, the Township's plan is to proceed with construction of a preferred reconstructed road alignment commencing spring 2021. We share this schedule with the County relative to the information provided below, regarding the twin 3300 culvert replacements on Constant Creek, at approximate station 6+885 (previous County information attached).



Please review and advise on the County's replacement plans with respect to the noted twin culverts for coordination purposes.

Thank you -

Cheers,

Tyler Peters, P.Eng.

From: Michael Behm <MEBehm@countyofrenfrew.on.ca>
Sent: November-19-19 10:01 AM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Cc: Jamie Doering (roads@greatermadawaska.com) <roads@greatermadawaska.com>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Tyler Casey (Greenview) <tyler.casey@greenview-environmental.ca>; Lee Perkins <LPerkins@countyofrenfrew.on.ca>
Subject: RE: County Pre-Consultation for Ferguson Lake Road Rehabilitation, Twp of Greater Madawaska, ON (102.19.021)

Hi Tyler,

I have attached the OSIM inspections for the two County structures. We also have an EA report that was completed when we looking at replacing the bridge. It was decided at that time we would just replace the bridge deck and look at replacing the entire bridge at a later date. The EA document is quite large and we are unable to email it to you. If you would like a copy of it we could courier it to you on a USB stick. Currently the twin culverts are scheduled to be designed in 2020 and replaced in 2021.

If you have any questions please feel free to contact us.

Regards,
Mike

Michael Behm, C.Tech.
Acting Manager of Infrastructure

Public Works & Engineering Department
County of Renfrew
"Experience our History, Share our Future"

9 International Dr.
Pembroke, ON K8A 6W5
Tel: (613) 732-4353 Ext. 478
Toll Free 1-800-273-0183
Fax: (613) 732-0087
mebehm@countyofrenfrew.on.ca

From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: November 19, 2019 9:35 AM
To: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Cc: Jamie Doering (roads@greatermadawaska.com) <roads@greatermadawaska.com>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Michael Behm <MEBehm@countyofrenfrew.on.ca>; Tyler Casey (Greenview) <tyler.casey@greenview-environmental.ca>
Subject: RE: County Pre-Consultation for Ferguson Lake Road Rehabilitation, Twp of Greater Madawaska, ON (102.19.021)

Good morning, Taylor;

I am writing to follow-up on the following items requested from the County. Refer to the attached Figure 2.

1. OSIM structure reports for the twin culverts at Sta 6+900, over constant creek.
2. OSIM structure reports for the bridge over Constant Creek at Sta 5+850.
3. Design and engineering drawings, reports, and related information pertinent to the most recent upgrades to the Constant Creek bridge at Sta 5+850.

Further to the above, we understand that the County may be considering replacement of the twin culverts at Sta 6+900 (item 1 above) in the near future. If this is the case, please advise on this matter as follows:

4. When the replacement is planned to be completed?
5. What is the scope of the replacement? Please provide design and engineering information.

Thank you for your prompt attention to all of the above, we'd appreciate having a complete response by the end of this week for on-going site fieldwork and related considerations.

Please do not hesitate to contact me via email or telephone with any questions.

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Tyler Peters (Greenview)
Sent: November-12-19 9:30 AM
To: Michael Behm <MEBehm@countyofrenfrew.on.ca>; Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Cc: Jamie Doering (roads@greatermadawaska.com) <roads@greatermadawaska.com>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Tyler Casey (Greenview) <tyler.casey@greenview-environmental.ca>
Subject: RE: County Pre-Consultation for Ferguson Lake Road Rehabilitation, Twp of Greater Madawaska, ON (102.19.021)

Good morning, Michael and Taylor;

Thank you for your response.

We look forward to receiving any/all available information the County may have on the 2 noted structures for consideration in our design work now underway.

We will ensure that the County is included in related design consultations for the project.

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Michael Behm <MEBehm@countyofrenfrew.on.ca>
Sent: November-11-19 9:12 PM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Cc: Jamie Doering (roads@greatermadawaska.com) <roads@greatermadawaska.com>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Subject: RE: County Pre-Consultation for Ferguson Lake Road Rehabilitation, Twp of Greater Madawaska, ON (102.19.021)

Hi Tyler,

Sorry for the delay in responding to you and thank you for contacting the County on this project. You are correct that these two structures belong to the County of Renfrew. Taylor Hanrath, our Infrastructure Coordinator, will review and forward any relevant information that you are requesting as soon as practical.

We do note that the County requires that we are provided the opportunity to review the design drawings that will affect our structures,

Regards,
Mike

Michael Behm, C.Tech.
Acting Manager of Infrastructure

Public Works & Engineering Department
County of Renfrew
"Experience our History, Share our Future"

9 International Dr.
Pembroke, ON K8A 6W5
Tel: (613) 732-4353 Ext. 478
Toll Free 1-800-273-0183
Fax: (613) 732-0087
mebehm@countyofrenfrew.on.ca

From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>

Sent: October 25, 2019 10:57 AM

To: Michael Behm <MEBehm@countyofrenfrew.on.ca>

Cc: Jamie Doering (roads@greatermadawaska.com) <roads@greatermadawaska.com>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>

Subject: County Pre-Consultation for Ferguson Lake Road Rehabilitation, Twp of Greater Madawaska, ON (102.19.021)

Importance: High

Good morning, Michael;

On behalf of the Township of Greater Madawaska, we are in the process of initiating planning, design, and engineering for the Township's Ferguson Lake Road Rehabilitation Project. The project's initial rehabilitation phase includes the road section from Cobblestone Lane (Sta 4+450) to the road end at Flat Road (Sta 9+300), as shown in the attached Figure 2. The overall road alignment commences (Sta 0+000) at County Rd 508 (Calabogie Road).

It is our understanding that the County owns and manages the following infrastructure on the subject road section (refer to Figure 2):

1. The existing bridge over Constant Creek at Sta 5+850, plus +/- 30m of road on each side of the bridge.
2. The existing 2, large diameter water crossing culverts over Constant Creek at Sta 6+900.

With the above noted exceptions, all other aspects of the road and any other infrastructure for Ferguson Lake Road are understood to be owned and managed by the Township.

Could you please review your files and confirm the above, and forward a copy of the current OSIM bridge/culvert reports for the above-noted water crossing locations for our review and consideration at your earliest convenience.

Thank you in advance for your prompt attention to this submission. If you have any questions, or would like to have a teleconference or in-person meeting regarding this project, please advise.

Have a great weekend,

Tyler Peters, P.Eng.

Project Director



613.332.0057 x 102

greenview-environmental.ca

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Notice of Study Commencement

Reconstruction of Ferguson Lake Road Project Schedule B - Municipal Class Environmental Assessment

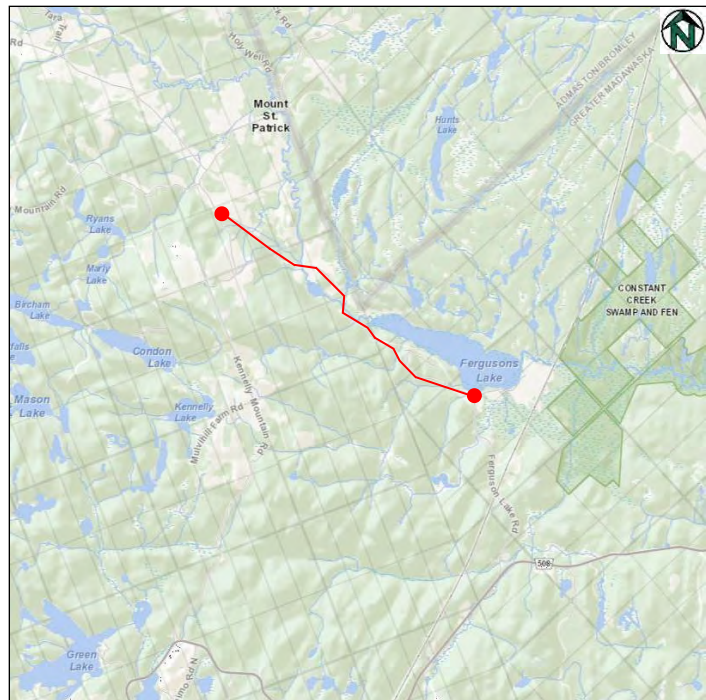
The Township of Greater Madawaska is undertaking a study to determine the most suitable alternative to reconstruct Ferguson Lake Road, from approximately Campground Side Road to Kennelly Mountain Road.

The project is being implemented in order to improve road safety, efficiency, drainage, and active transportation uses.

How Might This Project Impact Me?

The study is being undertaken in accordance with a Schedule B Undertaking of the Municipal Class Environmental Assessment (MCEA, 2015), as amended.

The study will consider and assess reconstruction alternatives, and the associated potential for impacts on the study area from each alternative. Upon careful consideration of the potential impacts, a determination of a preferred alternative will be made inclusive of input from agencies, the public, Indigenous Communities, and other interested parties.



How Can I Get More Information?

A Public Consultation Event (PCE) event is planned for later in 2020, to be held to review and discuss the results of the detailed studies/investigations completed as part of the project, to review the evaluation of the alternative solutions for the project, to discuss potential environmental impacts and their relation to the preferred solution, and to provide an opportunity for additional stakeholder input on the project. For more information on the project and/or the planning process, please contact the following in writing, using the contact information provided below.

Owner:
Township of Greater Madawaska
Allison Holtzhauer
CAO/Clerk-Treasurer
19 Parnell Street
Calabogie, Ontario K0J 1H0
Tel: 613-752-2222
E-mail: cao@greatermadawaska.com

Prime Consultant:
Greenview Environmental Management Limited
Dan Hagan, P.Geo.
Senior Project Manager / Geologist
13 Commerce Court
Bancroft, Ontario K0L 1C0
Tel: 613-332-0057
E-mail: solutions@greenview-environmental.ca

This Notice is Issued June 22, 2020

Allison Holtzhauer

CAO/Clerk-Treasurer, Township of Greater Madawaska

Project Comment Form

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Please refer to the provided information and Notice of Study Commencement associated with the above-noted project.

Name: _____
Agency (if applicable): _____
Address: _____
Email: _____

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☐ I/We wish to be involved further in the project as noted below:

Signature

Please return this completed form by **July 6, 2020** to:

**Mr. Dan Hagan, P.Geo.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057**

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 4:20 PM
To: jshaw@shawlumber.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (HS&SL) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

This e-mail message (including attachments, if any) is confidential and may be privileged. Any unauthorized distribution or disclosure is prohibited. Disclosure to anyone other than the intended recipient does not constitute waiver of privilege. If you have received this e-mail in error, please notify us and delete it and any attachments from your computer system and records.

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Herb Shaw & Sons Ltd.

31 Sharon Street,
Pembroke, Ontario
K8A 7J5
jshaw@shawlumber.ca

Attention: John Shaw
President

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear John Shaw:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 4:21 PM
To: ngooderham@ovfi.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (OVFI) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ottawa Valley Forest Inc.

195 Brazeau Road,
Pembroke, Ontario
K8A 6W4
ngooderham@ovfi.ca

Attention: Nick Gooderham
General Manager

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Nick Gooderham:

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:53 PM
To: mebehm@countyofrenfrew.on.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (COR - MB) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

County of Renfrew
Public Works & Engineering
9 International Drive,
Pembroke, Ontario
K8A 6W5
mebehm@countyofrenfrew.on.ca

Attention: Michael Behm
Manager of Infrastructure (Acting)
Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Dear Michael Behm:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:55 PM
To: LPerkins@countyofrenfrew.on.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (CoR - LP) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

County of Renfrew
Public Works & Engineering
9 International Drive,
Pembroke, Ontario
K8A 6W5
LPerkins@countyofrenfrew.on.ca

Attention: Lee Perkins
Director
Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Dear Lee Perkins:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:54 PM
To: thanrath@countyofrenfrew.on.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (CoR - TH) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

County of Renfrew
Public Works & Engineering
9 International Drive,
Pembroke, Ontario
K8A 6W5
thanrath@countyofrenfrew.on.ca

Attention: Taylor Hanrath
Infrastructure Coordinator
Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Dear Taylor Hanrath:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:56 PM
To: jerry@rccdsb.edu.on.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (RCCDSB) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Renfrew County Catholic District School Board

499 Pembroke Street West,
Pembroke, Ontario
K8A 5P1
jperry@rccdsb.edu.on.ca

Attention: Jaimie Perry
Director of Education

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Jaimie Perry:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:55 PM
To: media@rcdhu.com
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (RCDHU - MB) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

**Renfrew County & District Health Unit
Communications & Emergency Preparedness**

7 International Drive,
Pembroke, Ontario
K8A 6W5
media@rcdhu.com

Attention: Melissa Botz
Coordinator

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Melissa Botz:

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:57 PM
To: aholtzhauer@greatermadawaska.com
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (TGM - AH) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Township of Greater Madawaska

Administration

19 Parnell Street, P.O. Box 180

Calabogie, Ontario

K0J 1H0

aholtzhauer@greatermadawaska.com

Attention: Allison Holtzhauer
CAO/Clerk-Treasurer

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Allison Holtzhauer:

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:59 PM
To: firechief@greatermadawaska.com
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (TGM - DW) - Jun22-20.pdf

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Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Township of Greater Madawaska

Fire Department

19 Parnell Street, P.O. Box 180

Calabogie, Ontario

K0J 1H0

firechief@greatermadawaska.com

Attention: Darryl Wagner
Fire Chief

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Darryl Wagner:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

The Township is planning to reconstruct Ferguson Lake Road to improve road safety, efficiency, drainage, and active transportation uses. The planned reconstruction includes road realignments in an effort to achieve the above noted improvements. It is the Township's intention to proceed with construction of the project as early as spring 2021.


This *Notice of Study Commencement* (Notice) has been provided to you/your agency's attention as part of the project's consultation program. This Notice and related documents have been provided as formal notification of the project and to provide an opportunity for you to comment. If this information should be passed to an alternate contact at your organization, please redirect it accordingly.

Thank you in advance for your consideration of this project with respect to your organization's mandate. Please provide any comments or feedback on the attached *Project Comment Form* (Form) via email or fax addressed to the undersigned, for review and consideration as the project moves forward. Any pertinent review comments are requested by July 6, 2020, for consideration in the next steps of the study.

If you have any questions regarding this submission, we ask that you review the attached Notice, complete the attached Form, and submit the Form for our review and file. At your convenience, please contact the undersigned at solutions@greenview-environmental.ca with any other project-related questions.

All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska



Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:57 PM
To: ldesjardins@greatermadawaska.com
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (TGM - LD) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Township of Greater Madawaska

Planning

19 Parnell Street, P.O. Box 180

Calabogie, Ontario

K0J 1H0

ldesjardins@greatermadawaska.com

Attention: Luke Desjardins

Manager of Planning and Development

Re:

Notice of Study Commencement

Reconstruction of Ferguson Lake Road Project

Municipal Class Environmental Assessment (Schedule B)

Township of Greater Madawaska, County of Renfrew, Ontario

Greenview File: 102.20.025

Dear Luke Desjardins:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:58 PM
To: roads@greatermadawaska.com
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (TGM - SI) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Township of Greater Madawaska

Public Works

19 Parnell Street, P.O. Box 180

Calabogie, Ontario

K0J 1H0

roads@greatermadawaska.com

Attention: Steve Inwood

Public Works Manager (Acting)

Re: Notice of Study Commencement

Reconstruction of Ferguson Lake Road Project

Municipal Class Environmental Assessment (Schedule B)

Township of Greater Madawaska, County of Renfrew, Ontario

Greenview File: 102.20.025

Dear Steve Inwood:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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If you have any questions regarding this submission, we ask that you review the attached Notice, complete the attached Form, and submit the Form for our review and file. At your convenience, please contact the undersigned at solutions@greenview-environmental.ca with any other project-related questions.

All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:26 PM
To: david.ho@infrastructureontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (IO - DH) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:42 PM
To: Shannon.Mooney@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MH - SM) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:42 PM
To: marysia.szymczak@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MH - MS) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:43 PM
To: karla.barboza@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MHSTCI - KB) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:44 PM
To: katherine.cappella@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MHSTCI - KC) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:45 PM
To: james.hamilton@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MHSTCI - JH) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:45 PM
To: kimberly.livingstone@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MHSTCI - KL) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:46 PM
To: emma.jarvis@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MIA - EJ) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:47 PM
To: Sydney.Stonier@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MIA - SS) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:48 PM
To: tom.zach@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MIA - TZ) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:48 PM
To: lisa.legatto@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MI - LL) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:29 PM
To: jon.orpana@ontario.ca
Cc: Solutions - Greenview; EA Notices to ERegion (MECP)
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MECP - JO) - Jun22-20.pdf; 102.20.025 - FLR - MECP Streamlined EA Project Sheet - FINAL - Jun22-20 .xlsx

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:50 PM
To: zach.potashner@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MI - ZP) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:51 PM
To: michael.elms@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MMAH - ME) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:53 PM
To: sean.fraser@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MMAH - SF) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:54 PM
To: linda.hawke@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MMAH - LH) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:55 PM
To: allan.scott@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MMAH - AS) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:56 PM
To: tania.baker@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MNRF - TB) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:57 PM
To: randy.mclaren@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MNRF - RM) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:58 PM
To: kristen.wagner@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MNRF - KW) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

This e-mail message (including attachments, if any) is confidential and may be privileged. Any unauthorized distribution or disclosure is prohibited. Disclosure to anyone other than the intended recipient does not constitute waiver of privilege. If you have received this e-mail in error, please notify us and delete it and any attachments from your computer system and records.

Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:59 PM
To: tracy.hart@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MECP- TH) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:59 PM
To: kathleen.oneill@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MECP - KO) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:35 PM
To: grant.karwacki@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MENDM - GK) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:00 PM
To: peter.g.taylor@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MECP - PT) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:01 PM
To: Gillian.Dagg@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MT - GD) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:01 PM
To: jeff.hudebine@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MT - JH) - Jun22-20.pdf

Good day;

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Celine Boutin

Office Administrator



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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:36 PM
To: john.whytock@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MENDM - JW) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:37 PM
To: jocelyn.beatty@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MAFRA - JB) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:38 PM
To: trisha.gibbons@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MAFRA - TG) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:39 PM
To: thom.hagerty@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MAFRA - TH) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:40 PM
To: nina.aron@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MH -NA) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 2:41 PM
To: travis.kann@ontario.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MH - TK) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

**Ontario Ministry of Health
Communications Branch**
438 University Avenue, 8th Floor
Toronto, Ontario
M7A 1N3
marysia.szymczak@ontario.ca

Attention: Marysia Szymczak
Director (Acting)
**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Marysia Szymczak:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

The Township is planning to reconstruct Ferguson Lake Road to improve road safety, efficiency, drainage, and active transportation uses. The planned reconstruction includes road realignments in an effort to achieve the above noted improvements. It is the Township's intention to proceed with construction of the project as early as spring 2021.

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Thank you in advance for your consideration of this project with respect to your organization's mandate. Please provide any comments or feedback on the attached *Project Comment Form* (Form) via email or fax addressed to the undersigned, for review and consideration as the project moves forward. Any pertinent review comments are requested by July 6, 2020, for consideration in the next steps of the study.

If you have any questions regarding this submission, we ask that you review the attached Notice, complete the attached Form, and submit the Form for our review and file. At your convenience, please contact the undersigned at solutions@greenview-environmental.ca with any other project-related questions.

All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Health
Health Protection and Surveillance Policy and Programs Branch
393 University Avenue, 21st Floor
Toronto, Ontario
M7A 2S1
nina.arron@ontario.ca

Attention: Nina Arron
Director
Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Dear Nina Arron:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Heritage, Sport, Tourism and Culture Industries

Heritage Planning Unit

401 Bay Street,

Toronto, Ontario

M7A 0A7

james.hamilton@ontario.ca

Attention: James Hamilton
Manager

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear James Hamilton:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Heritage, Sport, Tourism and Culture Industries

Archaeology Program Unit

401 Bay Street, Suite 1700

Toronto, Ontario

M7A 0A7

katherine.cappella@ontario.ca

Attention: Katherine Cappella
Manager

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Katherine Cappella:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geol.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

**Ontario Ministry of Heritage, Sport, Tourism and Culture Industries
Heritage Planning Unit**

401 Bay Street,
Toronto, Ontario
M7A 0A7
kimberly.livingstone@ontario.ca

Attention: Kimberly Livingstone
Heritage Planner (Acting)
**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Kimberly Livingstone:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

**Ontario Ministry of Indigenous Affairs
Communications Services Branch - Director's Office**

160 Bloor Street East, Suite 400

Toronto, Ontario

M7A 2E6

tom.zach@ontario.ca

Attention: Tom Zach

Director (Acting)

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Tom Zach:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Infrastructure Ontario
Procurement & Program Management
24, 1 Dundas Street West,
Toronto, Ontario
M5G 1Z3
david.ho@infrastructureontario.ca

Attention: David Ho
Executive Vice-President
Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Dear David Ho:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Agriculture, Food and Rural Affairs

Land Use Policy & Stewardship

6484 Wellington Road 7,

Elora, Ontario

N0B 1S0

jocelyn.beatty@ontario.ca

Attention: Jocelyn Beatty

Rural Planner, Central-East & Northwestern Ontario

Re: Notice of Study Commencement

Reconstruction of Ferguson Lake Road Project

Municipal Class Environmental Assessment (Schedule B)

Township of Greater Madawaska, County of Renfrew, Ontario

Greenview File: 102.20.025

Dear Jocelyn Beatty:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Agriculture, Food and Rural Affairs

Environmental Management Branch

1 Stone Road West, 3rd Floor

Guelph, Ontario

N1G 4Y2

trisha.gibbons@ontario.ca

Attention: Trisha Gibbons

Branch Administrative Coordinator

Re:

Notice of Study Commencement

Reconstruction of Ferguson Lake Road Project

Municipal Class Environmental Assessment (Schedule B)

Township of Greater Madawaska, County of Renfrew, Ontario

Greenview File: 102.20.025

Dear Trisha Gibbons:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Agriculture, Food and Rural Affairs

Environmental Management Branch

1 Stone Road West, 3rd Floor

Guelph, Ontario

N1G 4Y2

thom.hagerty@ontario.ca

Attention: Thom Hagerty
Director

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Thom Hagerty:

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Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

**Ontario Ministry of the Environment, Conservation, and Parks
Environmental Assessment Branch (Eastern Region)**

1259 Gardiners Road, Unit 3

Kingston, Ontario

K7P 3J6

jon.orpana@ontario.ca

Attention: Jon Orpana

Environmental Planner & EA Coordinator

Re:

Notice of Study Commencement

Reconstruction of Ferguson Lake Road Project

Municipal Class Environmental Assessment (Schedule B)

Township of Greater Madawaska, County of Renfrew, Ontario

Greenview File: 102.20.025

Dear Jon Orpana:

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Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

**Ontario Ministry of the Environment, Conservation, and Parks
Environmental Assessment Branch**

135 St Clair Avenue West,
Toronto, Ontario
M4V 1P5
kathleen.oneill@ontario.ca

Attention: Kathleen O'Neill
Director, Environmental Assessment
**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Kathleen O'Neill:

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Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

**Ontario Ministry of the Environment, Conservation, and Parks
Eastern Region**

1259 Gardiners Road, Unit 3
Toronto, Ontario
K7P 3J6
peter.g.taylor@ontario.ca

Attention: Peter Taylor
Director (Acting)
**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Peter Taylor:

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of the Environment, Conservation, and Parks

Ottawa District Office

2430 Don Reid Drive, Unit 103

Ottawa, Ontario

K1H 1E1

tracy.hart@ontario.ca

Attention: Tracy Hart
Manager

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Tracy Hart:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

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Dan Hagan, P.Geol.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Energy, Northern Development and Mines

Corporate Policy Secretariat

99 Wellesley Street West, 5th Floor

Toronto, Ontario

M7A 1W3

grant.karwacki@ontario.ca

Attention: Grant Karwacki
Director (Acting)

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Grant Karwacki:

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Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Energy, Northern Development and Mines

Communications Branch

77 Grenville Street, 7th Floor

Toronto, Ontario

M7A 2C1

john.whytock@ontario.ca

Attention: John Whytock

Director, Communications

Re: Notice of Study Commencement

Reconstruction of Ferguson Lake Road Project

Municipal Class Environmental Assessment (Schedule B)

Township of Greater Madawaska, County of Renfrew, Ontario

Greenview File: 102.20.025

Dear John Whytock:

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Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Health
CCAC Renfrew, Central East Field Office
490 Raglan Street North,
Renfrew, Ontario
K7V 1P5
Shannon.Mooney@ontario.ca

Attention: Shannon Mooney
Manager (Acting)
Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Dear Shannon Mooney:

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Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Health
Minister's Office
777 Bay Street, College Park 5th Floor
Toronto, Ontario
M7A 2J3
travis.kann@ontario.ca

Attention: Travis Kann
Director, Communications
Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Dear Travis Kann:

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Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Heritage, Sport, Tourism and Culture Industries

Heritage Planning Unit

401 Bay Street,

Toronto, Ontario

M7A 0A7

karla.barboza@ontario.ca

Attention: Karla Barboza

Team Lead, Heritage (Acting)

Re: Notice of Study Commencement

Reconstruction of Ferguson Lake Road Project

Municipal Class Environmental Assessment (Schedule B)

Township of Greater Madawaska, County of Renfrew, Ontario

Greenview File: 102.20.025

Dear Karla Barboza:

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Greenview Environmental Management Limited



Dan Hagan, P. Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

**Ontario Ministry of Infrastructure
Communications Branch - Deputy Minister's Office**

777 Bay Street, 4th Floor

Toronto, Ontario

M5G 2E5

lisa.legatto@ontario.ca

Attention: Lisa Legatto

Director (Acting)

Re: Notice of Study Commencement

Reconstruction of Ferguson Lake Road Project

Municipal Class Environmental Assessment (Schedule B)

Township of Greater Madawaska, County of Renfrew, Ontario

Greenview File: 102.20.025

Dear Lisa Legatto:

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Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Infrastructure

Minister's Office

777 Bay Street, 5th Floor

Toronto, Ontario

M7A 2J3

zach.potashner@ontario.ca

Attention: Zach Potashner
Director of Policy

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Zach Potashner:

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Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Indigenous Affairs

Deputy Minister's Office

160 Bloor Street East, Suite 400

Toronto, Ontario

M7A 2E6

emma.jarvis@ontario.ca

Attention: Emma Jarvis
Senior Policy & Strategic Advisor (Acting)

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Emma Jarvis:

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Indigenous Affairs

Minister's Office

160 Bloor Street East, Suite 400

Toronto, Ontario

M7A 2E6

Sydney.Stonier@ontario.ca

Attention: Sydney Stonier

Director of Communications

Re: Notice of Study Commencement

Reconstruction of Ferguson Lake Road Project

Municipal Class Environmental Assessment (Schedule B)

Township of Greater Madawaska, County of Renfrew, Ontario

Greenview File: 102.20.025

Dear Sydney Stonier:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geol.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Municipal Affairs & Housing

Eastern Municipal Services Office

8 Estate Lane,
Kingston, Ontario
K7M 9A8
allan.scott@ontario.ca

Attention: Allan Scott

Regional Director

Re:

Notice of Study Commencement

Reconstruction of Ferguson Lake Road Project

Municipal Class Environmental Assessment (Schedule B)

Township of Greater Madawaska, County of Renfrew, Ontario

Greenview File: 102.20.025

Dear Allan Scott:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

**Ontario Ministry of Municipal Affairs & Housing
Communications Branch - Deputy Minister's Office**

777 Bay Street, 17th Floor

Toronto, Ontario

M7A 2J3

linda.hawke@ontario.ca

Attention: Linda Hawke
Director

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Linda Hawke:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Municipal Affairs & Housing
Community Planning & Development, Eastern Municipal Services Office
8 Estate Lane,
Kingston, Ontario
K7M 9A8
michael.elms@ontario.ca

Attention: Michael Elms
Manager
Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Dear Michael Elms:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

**Ontario Ministry of Municipal Affairs & Housing
Provincial Planning Policy Branch**

777 Bay Street, 13th Floor

Toronto, Ontario

M7A 2J3

sean.fraser@ontario.ca

Attention: Sean Fraser

Director (Acting)

Re: Notice of Study Commencement

Reconstruction of Ferguson Lake Road Project

Municipal Class Environmental Assessment (Schedule B)

Township of Greater Madawaska, County of Renfrew, Ontario

Greenview File: 102.20.025

Dear Sean Fraser:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geol.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Natural Resources and Forestry

Pembroke District

31 Riverside Drive,
Pembroke, Ontario
K8A 8R6
kristen.wagner@ontario.ca

Attention: Kristen Wagner
District Planner

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Kristen Wagner:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Natural Resources and Forestry

Pembroke District

31 Riverside Drive,
Pembroke, Ontario
K8A 8R6
randy.mclaren@ontario.ca

Attention: Randy McLaren
District Manager

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Randy McLaren:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Natural Resources and Forestry

Pembroke District

31 Riverside Drive,
Pembroke, Ontario
K8A 8R6
tania.baker@ontario.ca

Attention: Tania Baker
Management Biologist
Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Dear Tania Baker:

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Transportation

Eastern Region

1355 John Counter Boulevard, PO Box 4000

Kingston, Ontario

K7L 5A3

Gillian.Dagg@ontario.ca

Attention: Gillian Dagg

Head - Environmental

Re: Notice of Study Commencement

Reconstruction of Ferguson Lake Road Project

Municipal Class Environmental Assessment (Schedule B)

Township of Greater Madawaska, County of Renfrew, Ontario

Greenview File: 102.20.025

Dear Gillian Dagg:

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Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ontario Ministry of Transportation

Eastern Region

1355 John Counter Boulevard, PO Box 4000

Kingston, Ontario

K7L 5A3

jeff.hudebine@ontario.ca

Attention: Jeff Hudebine
Regional Director (Acting)

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Jeff Hudebine:

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska



Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 4:08 PM
To: Brad.wilson@bell.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (BC - BW) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

This e-mail message (including attachments, if any) is confidential and may be privileged. Any unauthorized distribution or disclosure is prohibited. Disclosure to anyone other than the intended recipient does not constitute waiver of privilege. If you have received this e-mail in error, please notify us and delete it and any attachments from your computer system and records.

Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 4:09 PM
To: est.reg.crossing@enbridge.com
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (EI) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 4:10 PM
To: est.reg.crossing@enbridge.com
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (EPI -JH) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 4:11 PM
To: ashley.cavanagh@HydroOne.com
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (HO - AC) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 4:11 PM
To: kyle.maynard@HydroOne.com
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (HO - KM) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 4:12 PM
To: laurie.mosley@hydroone.com
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (HO - LM) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 4:14 PM
To: betty.roberts@hydroone.com
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (HO - BR) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

This e-mail message (including attachments, if any) is confidential and may be privileged. Any unauthorized distribution or disclosure is prohibited. Disclosure to anyone other than the intended recipient does not constitute waiver of privilege. If you have received this e-mail in error, please notify us and delete it and any attachments from your computer system and records.

Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 4:15 PM
To: michelle.stanzel@HydroOne.com
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (HO - MS) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Bell Canada

, Ontario

Brad.wilson@bell.ca

Attention: Brad Wilson
Access Network Engineering Specialist
Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Dear Brad Wilson:

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Enbridge Inc.

Eastern Region Lands Department, Enbridge Gas Head Office, Toronto

500 Consumers Road,

North York, Ontario

M2J 1P8

est.reg.crossing@enbridge.com

Attention:

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

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Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Hydro One Networks Inc.
Perth Field Business Centre, Distribution Lines Work Management
99 Drummond Street West,
Perth, Ontario
K7H 3E7
ashley.cavanagh@HydroOne.com

Attention: Ashley Cavanagh
Senior Planning Technician, Eastern Region
Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Dear Ashley Cavanagh:

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Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Enbridge Pipelines Inc.

, Ontario

est.reg.crossing@enbridge.com

Attention: Jonathan Hale
Land Advisor

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Jonathan Hale:

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Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Hydro One Networks Inc.
Perth Field Business Centre, Distribution Lines Work Management
99 Drummond Street West,
Perth, Ontario
K7H 3E7
betty.roberts@hydroone.com

Attention: Betty Roberts
Planning Tech - Arnprior & Vankleek Hill
Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Dear Betty Roberts:

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Hydro One Networks Inc.

kyle.maynard@HydroOne.com

Attention: Kyle Maynard
Supervising Technician

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Kyle Maynard:

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Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

**Hydro One Networks Inc.
Arnprior Work Centre**

laurie.mosley@hydroone.com

Attention: Laurie Mosley
Area Distribution Engineering Tech
**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Laurie Mosley:

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Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Hydro One Networks Inc.
Distribution Work Management

michelle.stanzel@HydroOne.com

Attention: Michelle Stanzel
Zone Distribution Planning Tech
Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Dear Michelle Stanzel:

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Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Frederick R E Little
15950 McLaughlin Road,
Nestleton, Ontario
L0B 1L0

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

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Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Paul Vriend
8348 Van Rens Street, R.R. 3
Metcalf, Ontario
K0A 2P0

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
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Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Thomas John Kelly
149 Kellys Road,
Renfrew, Ontario
K7V 3Z7

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

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Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

William Murray Burns
3 Mount St., Patrick Road,
Dacre, Ontario
K0J 1N0

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

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Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

David Mohr
812 Ferguson Lake Road, R.R. 4
Renfrew, Ontario
K7V 3Z7

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

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Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Donna Munro
39 Sherk Crescent,
Kanata, Ontario
K2K 2L3

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

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Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Roderick Hugh Paterson
772 Ferguson Lake Road,
Renfrew, Ontario
K7V 3Z7

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Marnie Peters
724 Ferguson Lake Road,
Renfrew, Ontario
K7V 3Z7

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

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Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Integrated Forestree Services Inc. c/o Andrew Boyd
P.O. Box 13593,
Kanata, Ontario
K2K 1X6

**Re: Notice of Study Commencement
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Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
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Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

1270349 Ontario Inc.
306 Montfort Street,
Vanier, Ontario
K1L 5N6

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Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
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Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

2480088 Ontario Inc.
105 Turner Court,
Erin, Ontario
N0B 1H0

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Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
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Attachments

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Thomas Patrick Lane
142 County Lane West,
Kanata, Ontario
K2L 1J7

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
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Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Wallace Leonard Chippior
1120 Ferguson Lake Road, R.R. 4
Renfrew, Ontario
K7V 3Z7

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

8296901 Canada Incorporated
3452 Angel Pass Drive,
Mississauga, Ontario
L5M 7N4

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Reconstruction of Ferguson Lake Road Project
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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Deborah Charbonneau
260 Brittany Drive, Apartment # 106,
Ottawa, Ontario
K1K 4M2

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BY REGULAR OR ELECTRONIC MAIL

Jacqstev Holding Inc.
86 Daniel Street South,
Arnprior, Ontario
K7S 2L7

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Derek C R Benoit
188 Arthur Street,
Arnprior, Ontario
K7S 1A4

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June 22, 2020

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William Arthur Blair
1422 Kennelly Mountain Road, R.R. 4
Renfrew, Ontario
K7V 3Z7

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June 22, 2020

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Andrew Kenneth Boyd
387 Ridgeside Farm Drive,
Kanata, Ontario
K2W 1H3

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Sheri Boyden
259 Flodden Way,
Nepean, Ontario
K2G 7E1

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Donald Harold Burley
96 Rowe Drive,
Kanata, Ontario
K2L 3Y9

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Andrew Penny
18 Kingsford Crescent,
Kanata, Ontario
K2K 1T4

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Bernadette Marie Culhane
1159 Upper Dwyer Hill Road,
Carp, Ontario
K0A 1L0

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Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Madam / Sir:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

2644872 Ontario Inc.
27 Louisburg Crescent,
Brampton, Ontario
L6X 3A7

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
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Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Janie Margaret Ralph
P.O. Box 88,
Richmond, Ontario
K0A 2Z0

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Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Wilfred O'Brien
1356 Ferguson Lake Road, R.R. 4
Renfrew, Ontario
K7V 3Z7

**Re: Notice of Study Commencement
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Attachments

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Allan Tink
2168 Nature Trail Crescent,
Orleans, Ontario
K1W 1E5

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Senior Project Manager / Geologist

Attachments

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Thomas Clair Scully
38 Harry Street,
Renfrew, Ontario
K7V 3C7

**Re: Notice of Study Commencement
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Attachments

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Garry Martin Switzer
116 Bonnie Lane,
Kinburn, Ontario
K0A 2H0

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Attachments

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Kathleen Teal
2168 Nature Trail Crescent,
Orleans, Ontario
K1W 1E5

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Ashok Tewary
20 Bedouin Crescent,
Brampton, Ontario
L6P 4H3

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BY REGULAR OR ELECTRONIC MAIL

Michael William Thompson
1342 Hanbury Street,
Ottawa, Ontario
K2C 2M2

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Marcel Ducharme
1039 Megan's Street,
Kingston, Ontario
K7P 3E6

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Kevin Etmanski
379 Upper Dwyer Hill Road,
Ashton, Ontario
K0A 1B0

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Donna Marie Ferguson
R.R. 34,
Renfrew, Ontario
K7V 3Z7

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Jean Grenon
1466 Tennyson Road,
Perth, Ontario
K7H 3C8

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Kevin Hunt
59 Campground Sideroad,
Renfrew, Ontario
K7V 3Z7

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June 22, 2020

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Allan Phillips
33 Campground Sideroad,
Renfrew, Ontario
K7V 3Z7

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:31 PM
To: info@otc-cta.gc.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (CTA) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

This e-mail message (including attachments, if any) is confidential and may be privileged. Any unauthorized distribution or disclosure is prohibited. Disclosure to anyone other than the intended recipient does not constitute waiver of privilege. If you have received this e-mail in error, please notify us and delete it and any attachments from your computer system and records.

Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:37 PM
To: dominic.cliche@tc.gc.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (TC) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:49 PM
To: marissa.owen@canada.ca
Cc: Solutions - Greenview
Subject: FW: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (INAC - TG) - Jun22-20.pdf

If you have any questions regarding this message, please contact me.

Thank you and have a great day,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>

Sent: June-22-20 2:36 PM

To: tina.gallinger2@canada.ca

Cc: Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:32 PM
To: rob.dobos@canada.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (ECCC - RD) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:32 PM
To: wesley.plant@canada.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (ECCC - WP) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:33 PM
To: greg.carreau@canada.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (HC- GC) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:34 PM
To: david.mcgovern@canada.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (IAAC - DM) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:34 PM
To: anjala.puvananathan@canada.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (IAAC - AP) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:35 PM
To: jeremy.schultz@canada.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (IAAC - JS) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:36 PM
To: sunil.bajaj@canada.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (INAC - SB) - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Monday, June 22, 2020 3:36 PM
To: tina.gallinger2@canada.ca
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement Letter (INAC - TG) - Jun22-20.pdf

Good day;

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Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Canadian Transportation Agency

Ottawa, Ontario
K1A 0N9
info@otc-cta.gc.ca

Attention:

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear :

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

The Township is planning to reconstruct Ferguson Lake Road to improve road safety, efficiency, drainage, and active transportation uses. The planned reconstruction includes road realignments in an effort to achieve the above noted improvements. It is the Township's intention to proceed with construction of the project as early as spring 2021.

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Thank you in advance for your consideration of this project with respect to your organization's mandate. Please provide any comments or feedback on the attached *Project Comment Form* (Form) via email or fax addressed to the undersigned, for review and consideration as the project moves forward. Any pertinent review comments are requested by July 6, 2020, for consideration in the next steps of the study.

If you have any questions regarding this submission, we ask that you review the attached Notice, complete the attached Form, and submit the Form for our review and file. At your convenience, please contact the undersigned at solutions@greenview-environmental.ca with any other project-related questions.

All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

**Environment and Climate Change Canada
Environmental Protection Operations - Ontario**

867 Lakeshore Road, Office L509, 5th Floor
Burlington, Ontario
L7S 1A1
rob.dobos@canada.ca

Attention: Rob Dobos
Manager

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Rob Dobos:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

**Environment and Climate Change Canada
Environmental Protection Operations - Ontario**

4905 Dufferin Street, 2nd Floor

Toronto, Ontario

M3H 5T4

wesley.plant@canada.ca

Attention: Wesley Plant
Manager, Environmental Assessment Section - Ontario

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Wesley Plant:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

**Health Canada
Safe Environments Directorate**

greg.carreau@canada.ca

Attention: Greg Carreau
A/Director General

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Greg Carreau:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Impact Assessment Agency of Canada

Ontario Regional Office

600-55 York Street,

Toronto, Ontario

M5J 1R7

anjala.puvananathan@canada.ca

Attention: Anjala Puvananathan
Director

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Anjala Puvananathan:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Impact Assessment Agency of Canada

Headquarters

160 Elgin Street, 22nd Floor

Ottawa, Ontario

K1A 0H3

david.mcgovern@canada.ca

Attention: David McGovern
President

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear David McGovern:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Impact Assessment Agency of Canada

Ontario Regional Office

55 York Street, 6th Floor,

Toronto, Ontario

M5J 1R7

jeremy.schultz@canada.ca

Attention: Jeremy Schultz
Administrative Officer

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Jeremy Schultz:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Indigenous and Northern Affairs Canada
Environment, Lands & Economic Development, Ontario Region
655 Bay Street, Suite 700, 8th Floor
Toronto, Ontario
M5G 2K4
sunil.bajaj@canada.ca

Attention: Sunil Bajaj
Manager
Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Dear Sunil Bajaj:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

Indigenous and Northern Affairs Canada
Regional Director General Office, Ontario Region
655 Bay Street, Suite 700, 9th Floor
Toronto, Ontario
M5G 2K4
tina.gallinger2@canada.ca

Attention: Tina Gallinger
Chief of Staff
Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Dear Tina Gallinger:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

The Township is planning to reconstruct Ferguson Lake Road to improve road safety, efficiency, drainage, and active transportation uses. The planned reconstruction includes road realignments in an effort to achieve the above noted improvements. It is the Township's intention to proceed with construction of the project as early as spring 2021.

This *Notice of Study Commencement* (Notice) has been provided to you/your agency's attention as part of the project's consultation program. This Notice and related documents have been provided as formal notification of the project and to provide an opportunity for you to comment. If this information should be passed to an alternate contact at your organization, please redirect it accordingly.

Thank you in advance for your consideration of this project with respect to your organization's mandate. Please provide any comments or feedback on the attached *Project Comment Form* (Form) via email or fax addressed to the undersigned, for review and consideration as the project moves forward. Any pertinent review comments are requested by July 6, 2020, for consideration in the next steps of the study.

If you have any questions regarding this submission, we ask that you review the attached Notice, complete the attached Form, and submit the Form for our review and file. At your convenience, please contact the undersigned at solutions@greenview-environmental.ca with any other project-related questions.

All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

June 22, 2020

BY REGULAR OR ELECTRONIC MAIL

**Transport Canada
Environmental Programs**

330 Sparks Street,
Ottawa, Ontario
K1A 0N5
dominic.cliche@tc.gc.ca

Attention: Dominic Cliche
Director, Environmental Management
**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Dominic Cliche:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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Thank you in advance for your consideration of this project with respect to your organization's mandate. Please provide any comments or feedback on the attached *Project Comment Form* (Form) via email or fax addressed to the undersigned, for review and consideration as the project moves forward. Any pertinent review comments are requested by July 6, 2020, for consideration in the next steps of the study.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

Dan Hagan (Greenview)

From: Info <Info@otc-cta.gc.ca>
Sent: Monday, June 22, 2020 3:31 PM
To: Celine Boutin (Greenview)
Subject: Accusé de réception de l'Office des transports du Canada / Acknowledgement of receipt from the Canadian Transportation Agency

English follows French

Nous vous remercions d'avoir communiqué avec l'Office des transports du Canada. Votre demande est importante pour nous. Nous vous répondrons dans les plus brefs délais. Suite à votre demande, une réponse additionnelle suivra.

Thank you for contacting the Canadian Transportation Agency. Your inquiry is important to us. We will get back to you as soon as possible. An additional response to your inquiry will follow accordingly.

Dan Hagan (Greenview)

From: betty.roberts@HydroOne.com
Sent: Monday, June 22, 2020 4:22 PM
To: Celine Boutin (Greenview); EasternRegionPlanning@HydroOne.com
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, TGM, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22....pdf; 102.20.025 - Notice of Study Commencement Letter (HO - BR) - Jun22-20.pdf

Hi Celine, thank you for your email. I am redirecting your email to our central mailbox EasternZonePlanning@hydroone.com as I no longer work the Arnprior area. The person who currently looks after this area will be in touch.

Please use our central mailbox for future correspondence, that way if roles/responsibility changes, someone will be able to work it.

Thank you.

Betty Roberts
Planning Tech- Picton , Tweed and Campbellford
Perth FBC
Dx Lines Work Management
Hydro One Networks Inc. PH1
99 Drummond St. W.
Perth, ON K7H 3E7
Tel: 1-888-332-2249 or 613-267-6473 (ext 3223)
Fax: 613-264-9115
email: betty.roberts@hydroone.com

For Family. For Life. ☺

From: Celine Boutin (Greenview) [mailto:celine.boutin@greenview-environmental.ca]
Sent: Monday, June 22, 2020 3:14 PM
To: ROBERTS Betty
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

*** Exercise caution. This is an EXTERNAL email. DO NOT open attachments or click links from unknown senders or unexpected email. ***

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin



613.332.0057 x 101

<https://ddei3-0-ctp.trendmicro.com:443/wis/clicktime/v1/query?url=www.greenview%2denvironmental.ca&umid=104585C1-A8B1-0D05-928B-84E6AA22B8F6&auth=7c4ba316753dc19277b4cd0bdedce6f0c8e9311b-19f234a2ca3923ee1258985d26a9620f3b6ee1b9>

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Dan Hagan (Greenview)

From: Hotrum, Katherine (IO) <Katherine.Hotrum@infrastructureontario.ca>
Sent: Monday, June 22, 2020 11:16 PM
To: Celine Boutin (Greenview); Solutions - Greenview
Cc: Pojasok, Anton (IO); Myslicki, Lisa (IO)
Subject: FW: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good evening,

Please be advised that the appropriate contact for EA notices is:

Lisa Myslicki, M. Env. SC (she, her)
Infrastructure Ontario
Environmental Specialist, Environmental Management

lisa.myslicki@infrastructureontario.ca

Mobile: 416-557-3116 | Office: 647-264-4653

Thank you and regards,



Katherine Hotrum (she, her)
Infrastructure Ontario
Manager-Environmental Projects

katherine.hotrum@infrastructureontario.ca

Mobile: 416-568-4585 | Office: 647-264-4573

www.infrastructureontario.ca

Follow IO at:   

From: Celine Boutin (Greenview) [<mailto:celine.boutin@greenview-environmental.ca>]

Sent: Monday, June 22, 2020 1:26 PM

To: Ho, David <David.Ho@infrastructureontario.ca>

Cc: Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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This email, including any attachments, is intended for the personal and confidential use of the recipient(s) named above. If you are not the intended recipient of the email, you are hereby notified that any dissemination or copying of this email and/or any attachment files is strictly prohibited. If you have received this e-mail in error, please immediately notify the sender and arrange for the return of any and all copies and the permanent deletion of this message including any attachments, without reading it or making a copy. Thank you.

Dan Hagan (Greenview)

From: Tyler Peters (Greenview)
Sent: Tuesday, June 23, 2020 6:21 PM
To: Celine Boutin (Greenview); Dan Hagan (Greenview)
Subject: FW: Reconstruction of Ferguson Lake Road Project
Attachments: Renfrew County Planning Response.pdf

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenviiew-environmental.ca

From: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Sent: June 23, 2020 5:14 PM
To: Tyler Peters (Greenview) <tyler.peters@greenviiew-environmental.ca>
Subject: FW: Reconstruction of Ferguson Lake Road Project

Please see below

From: Ed Tink <ed.j.tink@gmail.com>
Sent: June 23, 2020 5:07 PM
To: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Subject: Reconstruction of Ferguson Lake Road Project

Hi Allison,

I am interested in more information on the planning for this project.

In particular, our family has a pending severance in the area of concern at 660 Ferguson Lake Road. An application was submitted to the county last year. The county response and associated map is attached.

I want to make sure that this project is aware of this plan.

Regards,

Ed Tink
891 Stones Lake Road
Calabogie, ON
K0J 1H0
613-282-6883



Dan Hagan (Greenview)

From: Eastern Region Crossing <est.reg.crossing@enbridge.com>
Sent: Tuesday, June 23, 2020 12:42 PM
To: Celine Boutin (Greenview)
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, TGM, ON (102.20.025)

Enbridge pipelines Inc does not have any assets in the area
Thank you

From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Sent: Monday, June 22, 2020 3:09 PM
To: Eastern Region Crossing <est.reg.crossing@enbridge.com>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: [External] Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

EXTERNAL: PLEASE PROCEED WITH CAUTION.

This e-mail has originated from outside of the organization. Do not respond, click on links or open attachments unless you recognize the sender or know the content is safe.

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Cappella, Katherine (MHSTCI) <Katherine.Cappella@ontario.ca>
Sent: Tuesday, June 23, 2020 10:01 AM
To: Celine Boutin (Greenview)
Cc: Solutions - Greenview
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MHSTCI - KC) - Jun22-20.pdf

Good morning Celine,

Thank you for this email. The Archaeology Program Unit oversees the licensing and fieldwork of archaeologists. I have forwarded your email to my colleagues in the ministry's Heritage Planning Unit who will be in touch shortly with a response.

Kind regards,
Katherine Cappella
Manager, Archaeology Program Unit
Ministry of Heritage, Sport, Tourism and Culture Industries
Heritage, Tourism and Culture Division | Programs and Services Branch
Office Tel: 416-314-7132
Mobile: 647-248-9147

From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Sent: Monday, June 22, 2020 1:44 PM
To: Cappella, Katherine (MHSTCI) <Katherine.Cappella@ontario.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin
Office Administrator



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Dan Hagan (Greenview)

From: Barboza, Karla (MHSTCI) <Karla.Barboza@ontario.ca>
Sent: Tuesday, June 23, 2020 12:38 PM
To: Celine Boutin (Greenview)
Cc: Livingstone, Kimberly (MHSTCI); Harvey, Joseph (MHSTCI); Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, TGM, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MHSTCI - KB) - Jun22-20.pdf

Hi Celine,

Thanks for sending the notice of commencement for the above-referenced project to the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI).

Please continue to send any notices, documentation and information about this project to both Kimberly Livingstone and I. You can remove James Hamilton and Katherine Cappella from your contact list.

We will review the documentation sent and will provide preliminary comments by July 20.

Let us know if you have any questions in the meantime.

Thanks again,
Karla

Karla Barboza MCIP, RPP, CAHP | (A) Team Lead, Heritage
Ministry of Heritage, Sport, Tourism and Culture Industries
Heritage, Tourism and Culture Division | Programs and Services Branch | Heritage Planning Unit
T. 416.314.7120 | Email: karla.barboza@ontario.ca

From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Sent: June-22-20 1:43 PM
To: Barboza, Karla (MHSTCI) <Karla.Barboza@ontario.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin
Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Owen, Marissa (AADNC/AANDC) <marissa.owen@canada.ca>
Sent: Wednesday, June 24, 2020 12:52 PM
To: Celine Boutin (Greenview)
Cc: Solutions - Greenview
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good morning Celine,

I am confirming receipt and will contact you should we have any questions.

Thank you,

Marissa Owen

Senior Executive Assistant
Regional Director General's Office
Indigenous Services Canada
655 Bay Street, Suite 700, Toronto, Ontario M5G 2K4
marissa.owen@canada.ca
Office: 416-952-7340
Mobile: 647-391-5686
Fax: 416-954-4326

From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Sent: Monday, June 22, 2020 2:49 PM
To: Owen, Marissa (AADNC/AANDC) <marissa.owen@canada.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: FW: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

If you have any questions regarding this message, please contact me.

Thank you and have a great day,

Celine Boutin

Office Administrator



613.332.0057 x 101
www.greenview-environmental.ca

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From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>

Sent: June-22-20 2:36 PM

To: tina.gallinger2@canada.ca

Cc: Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: EnviroOnt <EnviroOnt@tc.gc.ca>
Sent: Wednesday, June 24, 2020 3:25 PM
To: Celine Boutin (Greenview)
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, TGM, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22....pdf; 102.20.025 - Notice of Study Commencement Letter (TC) - Jun22-20.pdf

Hello,

This is a request to please remove Transport Canada contact Dominic Cliche (dominic.cliche@tc.gc.ca) from your mailing list and please send all future EA related inquiries in Ontario region to EnviroOnt@tc.gc.ca.

Please note Transport Canada **does not** require receipt of all individual or Class EA related notifications. We are requesting project proponents to self-assess if their project:

1. Will interact with a federal property and/or waterway by reviewing the Directory of Federal Real Property, available at www.tbs-sct.gc.ca/dfrp-rbif/; and
2. Will require approval and/or authorization under any Acts administered by Transport Canada* available at <http://www.tc.gc.ca/eng/acts-regulations/menu.htm>.

Projects that will occur on federal property prior to exercising a power, performing a function or duty in relation to that project, will be subject to a determination of the likelihood of significant adverse environmental effects, per Section 82 of the *Impact Assessment Act, 2019*.

If the aforementioned does not apply, the Environmental Assessment program should not be included in any further correspondence and future notifications will not receive a response. If there is a role under the program, correspondence should be forwarded *electronically* to: EnviroOnt@tc.gc.ca with a **brief description of Transport Canada's expected role**.

*Below is a summary of the most common Acts that have applied to projects in an Environmental Assessment context:

- **Canadian Navigable Waters Act (CNWA)** – the Act applies primarily to works constructed or placed in, on, over, under, through, or across navigable waters set out under the Act. The Navigation Protection Program administers the CNWA through the review and authorization of works affecting navigable waters. Information about the Program, CNWA and approval process is available at: <http://www.tc.gc.ca/eng/programs-621.html>. Enquiries can be directed to NPPONT-PPNONT@tc.gc.ca or by calling (519) 383-1863.
- **Railway Safety Act (RSA)** – the Act provides the regulatory framework for railway safety, security, and some of the environmental impacts of railway operations in Canada. The Rail Safety Program develops and enforces regulations, rules, standards and procedures governing safe railway operations. Additional information about the Program is available at: <https://www.tc.gc.ca/eng/railsafety/menu.htm>. Enquiries can be directed to RailSafety@tc.gc.ca or by calling (613) 998-2985.
- **Transportation of Dangerous Goods Act (TDGA)** – the transportation of dangerous goods by air, marine, rail and road is regulated under the TDGA. Transport Canada, based on risks, develops safety standards and regulations, provides oversight and gives expert advice on dangerous goods to promote public safety. Additional information

about the transportation of dangerous goods is available at: <https://www.tc.gc.ca/eng/tdg/safety-menu.htm>. Enquiries can be directed to TDG-TMDOntario@tc.gc.ca or by calling (416) 973-1868.

- **Aeronautics Act** – Transport Canada has sole jurisdiction over aeronautics, which includes aerodromes and all related buildings or services used for aviation purposes. Aviation safety in Canada is regulated under this Act and the Canadian Aviation Regulations (CARs). Elevated Structures, such as wind turbines and communication towers, would be examples of projects that must be assessed for lighting and marking requirements in accordance with the CARs. Transport Canada also has an interest in projects that have the potential to cause interference between wildlife and aviation activities. One example would be waste facilities, which may attract birds into commercial and recreational flight paths. The *Land Use In The Vicinity of Aerodromes* publication recommends guidelines for and uses in the vicinity of aerodromes, available at: <https://www.tc.gc.ca/eng/civilaviation/publications/tp1247-menu-1418.htm>. Enquires can be directed to at tc.aviationservicesont-servicesaviationont.tc@tc.gc.ca or by calling 1 (800) 305-2059 / (416) 952-0230.

Please advise if additional information is needed.

Thank you,

Environmental Assessment Program, Ontario Region

Transport Canada / Government of Canada / 4900 Yonge St., Toronto, ON M2N 6A5
EnviroOnt@tc.gc.ca / Facsimile : (416) 952-0514 / TTY: 1-888-675-6863

Programme d'évaluation environnementale, Région de l'Ontario

Transports Canada / Gouvernement du Canada / 4900, rue Yonge, Toronto, ON, M2N 6A5
EnviroOnt@tc.gc.ca / télécopieur: (416) 952-0514

From: Celine Boutin (Greenview) [<mailto:celine.boutin@greenview-environmental.ca>]

Sent: Monday, June 22, 2020 2:37 PM

To: Cliche, Dominic <dominic.cliche@tc.gc.ca>

Cc: Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Sent: Wednesday, June 24, 2020 2:23 PM
To: Solutions - Greenview
Cc: Lee Perkins; Michael Behm; Celine Boutin (Greenview)
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - CoR Project Comment Form.pdf

Good afternoon Mr. Dan Hagan,

Please see attached Project Comment Form from the County of Renfrew for Reconstruction of Ferguson Lake Road Project.

Please do not hesitate to contact should you have any questions or require further information from the County of Renfrew.

Regards,

Taylor Hanrath
Infrastructure Coordinator

Department of Public Works & Engineering
County of Renfrew
9 International Drive
Pembroke, ON K8A 6W5
Phone 613 732 4353 x457
Fax 613 732 0087
thanrath@countyofrenfrew.on.ca



From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Sent: June 22, 2020 2:54 PM
To: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

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The information in this email and any accompanying document(s) are intended solely for the addressee(s) named, and is confidential. Any other distribution, disclosure or copying is strictly prohibited. If you have received this communication in error, please reply by email to the sender and delete or destroy all copies of this message with all attached document(s).

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Project Comment Form

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Please refer to the provided information and Notice of Study Commencement associated with the above-noted project.

Name: Taylor Hanrath
Agency (if applicable): County of Renfrew
Address: 9 International Drive, Pembroke, ON K8A 6W5
Email: thanrath@countyofrenfrew.on.ca

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☒ I/We wish to be involved further in the project as noted below:

County Structures C058 (Constant Creek Culverts) and B053 (Constant Creek Bridge) are located along Ferguson Lake Road. In 2012, the County had a Class C Municipal Class Environmental Assessment completed for B053, a copy is available upon request for consideration. Replacement of B053 is currently scheduled for 2028. Replacement of C058 is currently scheduled for 2021 and preliminary design has been initiated. Design of C058 will require input from the design of Ferguson Lake Road over it; anticipated road alignment and elevation must be incorporated into the design of C058. Should construction proceed as planned for Ferguson Lake Road, the County may request a partnership with the Township of Greater Madawaska to include the replacement of C058 in the road project.



Signature

Please return this completed form by **July 6, 2020** to:

**Mr. Dan Hagan, P.Geo.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057**

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

June 24, 2020

BY REGULAR AND ELECTRONIC MAIL

Ed Tink
891 Stones Lake Road
Calabogie, ON
K0J 1H0
ed.j.tink@gmail.com

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Mr. Tink:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

The Township is planning to reconstruct Ferguson Lake Road to improve road safety, efficiency, drainage, and active transportation uses. The planned reconstruction includes road realignments in an effort to achieve the above noted improvements. It is the Township's intention to proceed with construction of the project as early as spring 2021.

This *Notice of Study Commencement* (Notice) has been provided to you as part of the project's consultation program. This Notice and related documents have been provided as formal notification of the project and to provide an opportunity for you to comment.

Thank you in advance for your consideration of this project. Please provide any comments or feedback on the attached *Project Comment Form* (Form) via email or fax addressed to the undersigned, for review and consideration as the project moves forward. Any pertinent review comments are requested by July 6, 2020, for consideration in the next steps of the study.

If you have any questions regarding this submission, we ask that you review the attached Notice, complete the attached Form, and submit the Form for our review and file. At your convenience, please contact the undersigned at solutions@greenview-environmental.ca with any other project-related questions.

All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Wednesday, June 24, 2020 2:48 PM
To: ed.j.tink@gmail.com
Cc: Allison Holtzhauer (TGM); Tyler Peters (GEML); Celine Boutin (GEML)
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - FLR - Notice of Study Commencement - Letter (E. Tink) - FINAL - Jun24-20.pdf; 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf
Importance: High

Dear Mr. Tink –

On behalf of the Township of Greater Madawaska (Township), Greenview Environmental Management Limited (Greenview) is pleased to contact you today with respect to the *Notice of Study Commencement* (Notice) for the Township's Reconstruction of Ferguson Lake Road Project.

We are contacting you directly today with the attached Notice documents in response to your email inquiry to the CAO/Clerk-Treasurer, Ms. Allison Holtzhauer, dated June 23, 2020.

Additionally, a hardcopy of this electronic submission will be sent to your noted place of residence (81 Stones Lake Road, Calabogie, Ontario, K0J 1H0).

Please note that as part of the original mail out of the Notice of Study Commencement on Monday June 22, 2019, hardcopies of this same Notice were sent to the primary contact names for all adjacent properties along Ferguson Lake Road in the study. From this municipal list, three (3) properties were identified by the Township with which your name was associated – two (2) properties where Kathleen Teal was identified as the primary contact, and one (1) property where Allan Tink was identified as the primary contact. All three (3) properties had the mailing address "2168 Nature Trail Crescent, Orleans, Ontario, K1W 1E5" associated with them. We expect that Ms. Kathleen Teal and Mr. Allan Tink will receive their hardcopies of the attached submission at the 2168 Nature Trail Crescent location later this week. A hardcopy with your name will follow, a short time later. In the interim, we have provided you with this electronic submission for your use.

We encourage all stakeholders to fill out and submit to us a copy of the *Project Comment Form* (attached) to assist us in this project. We look forward working with you on this very important infrastructure improvement project for the Township of Greater Madawaska.

Thank you and have a great day -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Thursday, June 25, 2020 1:48 PM
To: Dan Hagan (Greenview)
Subject: FW: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Hi Dan,

Could you please reply to this email, I think it would be better coming from you.

If you have any questions regarding this message, please contact me.

Thank you and have a great day,

Celine Boutin

Office Administrator



613.332.0057 x 101

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From: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>
Sent: June-25-20 11:55 AM
To: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Thank you, Celine. I will have this reviewed.

I'm not sure if I should be speaking with you about this, or if there is someone you can direct me to. I am currently in the process of wrapping up files before I start mat leave (mid-next week). As of now I don't have a replacement.

Is there any leniency on July 6 as a hard deadline for comments? Our Ministry is still working remotely, so it has caused some delays in our ability to review.

Please let me know the best person to speak to about this, as we are interested in providing comments – my situation just makes it a little tricky.

Thanks!

Kristen Wagner, B.Sc.
District Planner

Ministry of Natural Resources & Forestry | Pembroke District
31 Riverside Dr.
Pembroke, ON K8A 8R6

kristen.wagner@ontario.ca | Phone: (613) 732-5522 | Fax: (613) 732-2972



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From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>

Sent: June-22-20 1:58 PM

To: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>

Cc: Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

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Cc: Tyler Peters (GEML); Celine Boutin (GEML)
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good afternoon, Ms. Wagner –

Thanks for reaching out to us about this project. My name is Dan Hagan, and I will be performing the function of Project Manager on this project for the Township of Greater Madawaska.

First off - I want to wish you the best of luck as you head toward maternity leave – congratulations!

With respect to the timing on the Ontario Ministry of Natural Resources and Forestry's (MNRF) review and response regarding our project, we can 100% work with you. We expect that the MNRF's input on this project to be one of the most important voices of all the agencies involved. With that in mind, would it be possible for the MNRF Pembroke Office to provide us with comments for the end of July 2020?

Whatever the case, myself, Greenview, and the Township of Greater Madawaska are prepared to work with you and your colleagues at the MNRF Pembroke Office in any way we can.

You can reach me via this email address at your convenience.

Thank you again, and we look forward to speaking with you further.

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Ministry of Natural Resources & Forestry | Pembroke District
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Pembroke, ON K8A 8R6

kristen.wagner@ontario.ca | Phone: (613) 732-5522 | Fax: (613) 732-2972



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Celine Boutin
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Dan Hagan (Greenview)

From: Tyler Peters (Greenview)
Sent: Monday, June 29, 2020 4:20 PM
To: Dan Hagan (Greenview)
Cc: Celine Boutin (Greenview)
Subject: FW: Reconstruction of Ferguson Lake Road Project. Attn: Dan Hagan
Attachments: 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; Tink-Teal Severance.zip

FYI...

Celine has/will save on server...

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Ed Tink <ed.j.tink@gmail.com>
Sent: June 29, 2020 2:39 PM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Reconstruction of Ferguson Lake Road Project. Attn: Dan Hagan

Mr. Hagan,

Please find attached a comment for requesting further involvement in the project and relevant severance information that should be helpful in understanding our concerns.

Please feel free to ask any questions that you may have.

Regards,

Ed Tink

891 Stones Lake Road
Calabogie, ON
K0J 1H0
613-282-6883

Dan Hagan (Greenview)

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Sent: Monday, June 29, 2020 2:25 PM
To: Dan Hagan (Greenview)
Cc: Tyler Peters (Greenview); Celine Boutin (Greenview); Trute, Lauren (MNRF)
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, TGM, ON (102.20.025)

Thank you so much for working with us on this one, Dan. I have cc'd Lauren Trute on this email. She is the Management Biologist who will be reviewing this file.

At this time I still do not have a name for my replacement; if things do not change, you might see comments coming directly from Lauren.

Thanks again!

Kristen Wagner, B.Sc.
District Planner

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First off - I want to wish you the best of luck as you head toward maternity leave – congratulations!

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You can reach me via this email address at your convenience.

Thank you again, and we look forward to speaking with you further.

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Thank you,

Celine Boutin

Office Administrator



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Cc: Tyler Peters (Greenview); Celine Boutin (Greenview); Trute, Lauren (MNRF)
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good afternoon, Kristen –

Best of luck with everything! I'm looking forward to working with Lauren and any other representatives from the MNRF Pembroke District Office on this project.

Please contact me at any time, and be well.

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



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Thanks again!

Kristen Wagner, B.Sc.
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Ministry of Natural Resources & Forestry | Pembroke District
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Dan Hagan (Greenview)

From: Trute, Lauren (MNRF) <Lauren.Trute@ontario.ca>
Sent: Monday, June 29, 2020 11:24 PM
To: Dan Hagan (Greenview); Wagner, Kristen (MNRF)
Cc: Tyler Peters (Greenview); Celine Boutin (Greenview)
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lk Rd, TGM, ON (102.20.025)

Hello Dan et al,

I just want to flag for you the importance of connecting with MECP regarding species at risk as soon as possible, especially if there will any field work involved. There are 2 SAR plant species (Butternut and Panax – please note data sensitivity for that species) confirmed along and immediately adjacent to the road, along with Blanding's turtle.

Given that the work is proposed to begin next year, do you have any additional information on water crossings (type, location, sizing), and anything else that will help me better provide you with the information you need (fisheries, SWH, etc).

Thanks,
Lauren

From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
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District Planner

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Good afternoon, Ms. Wagner –

Thanks for reaching out to us about this project. My name is Dan Hagan, and I will be performing the function of Project Manager on this project for the Township of Greater Madawaska.

First off - I want to wish you the best of luck as you head toward maternity leave – congratulations!

With respect to the timing on the Ontario Ministry of Natural Resources and Forestry's (MNRF) review and response regarding our project, we can 100% work with you. We expect that the MNRF's input on this project to be one of the most important voices of all the agencies involved. With that in mind, would it be possible for the MNRF Pembroke Office to provide us with comments for the end of July 2020?

Whatever the case, myself, Greenview, and the Township of Greater Madawaska are prepared to work with you and your colleagues at the MNRF Pembroke Office in any way we can.

You can reach me via this email address at your convenience.

Thank you again, and we look forward to speaking with you further.

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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From: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>
Sent: June-25-20 11:55 AM
To: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Thank you, Celine. I will have this reviewed.

I'm not sure if I should be speaking with you about this, or if there is someone you can direct me to. I am currently in the process of wrapping up files before I start mat leave (mid-next week). As of now I don't have a replacement.

Is there any leniency on July 6 as a hard deadline for comments? Our Ministry is still working remotely, so it has caused some delays in our ability to review.

Please let me know the best person to speak to about this, as we are interested in providing comments – my situation just makes it a little tricky.

Thanks!

Kristen Wagner, B.Sc.
District Planner

Ministry of Natural Resources & Forestry | Pembroke District
31 Riverside Dr.
Pembroke, ON K8A 8R6

kristen.wagner@ontario.ca | Phone: (613) 732-5522 | Fax: (613) 732-2972



"As part of providing [accessible customer service](#), please let me know if you have any accommodation needs or require communication supports or alternate formats."

From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Sent: June-22-20 1:58 PM
To: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Marilyn Halko <mhalko@rcdhu.com>
Sent: Monday, June 29, 2020 11:09 AM
To: Solutions - Greenview
Cc: Dr Robert Cushman; David Tantalo
Subject: Notice of Study Commencement--Reconstruction of Ferguson Lake Road Project--Greenview File: 102.20.025
Attachments: Project Comment Form--Notice of Study Commencement--Ferguson Lake Road Project.pdf
Importance: High

On behalf of Dr. Robert Cushman:

Good morning Mr. Hagan,

Please find attached the *Project Comment Form—Notice of Study Commencement* for the Reconstruction of Ferguson Lake Road Project.

Marilyn Halko

Marilyn Halko
Executive Assistant, Medical Officer of Health



Renfrew County and District Health Unit
7 International Drive
Pembroke, ON K8A 6W5

Telephone : 613-735-8650 Ext. 505
Fax : 613-735-3067
www.rcdhu.com

"Optimal Health for All in Renfrew County and District"



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Project Comment Form

Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Please refer to the provided information and Notice of Study Commencement associated with the above-noted project.

Name: Dr. Robert Cushman
Agency (if applicable): Renfrew County and District Health Unit
Address: 7 International Drive, Pembroke, ON K8A 6W5
Email: rcushman@rcdhu.com

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☒ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☐ I/We wish to be involved further in the project as noted below:



Signature

Please return this completed form by **July 6, 2020** to:

Mr. Dan Hagan, P.Geo.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

June 29, 2020

BY REGULAR MAIL

Serge Poirier & Nicole Desbiens-Poirier
682 Ferguson Lake Road
Renfrew, ON
K7V 3Z7

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Serge & Nicole:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

The Township is planning to reconstruct Ferguson Lake Road to improve road safety, efficiency, drainage, and active transportation uses. The planned reconstruction includes road realignments in an effort to achieve the above noted improvements. It is the Township's intention to proceed with construction of the project as early as spring 2021.

This *Notice of Study Commencement* (Notice) has been provided to you as part of the project's consultation program. This Notice and related documents have been provided as formal notification of the project and to provide an opportunity for you to comment.

Thank you in advance for your consideration of this project. Please provide any comments or feedback on the attached *Project Comment Form* (Form) via email or fax addressed to the undersigned, for review and consideration as the project moves forward. Any pertinent review comments are requested by July 6, 2020, for consideration in the next steps of the study.

If you have any questions regarding this submission, we ask that you review the attached Notice, complete the attached Form, and submit the Form for our review and file. At your convenience, please contact the undersigned at solutions@greenview-environmental.ca with any other project-related questions.

All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Monday, June 29, 2020 5:08 PM
To: Celine Boutin (Greenview)
Cc: Tyler Peters (Greenview)
Subject: New Contact Information - 682 Ferguson Lk Rd - Ferguson Lk Rd Rehabilitation Project (102.20.025)

Hi Celine –

Could you please update the Contact Spreadsheet and prepare a hardcopy Notice of Study Commencement (and related documents) for the following new property owners and send it out via regular mail, please and thank you???

Serge Poirier & Nicole Desbiens-Poirier
682 Ferguson Lake Road
Renfrew, ON K7V 3Z7

Cheers –

D.

Sincerely,

Dan Hagan, P. Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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From: Township Of Greater Madawaska <admin@greatermadawaska.com>
Sent: Monday, June 29, 2020 3:54 PM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Cathy Appleyard <cappleyard@greatermadawaska.com>
Cc: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Subject: RE: New Contact Information - 682 Ferguson Lake Road - Ferguson Lake Road Rehabilitation Project (102.20.025)

Hi Dan,

It looks like they are permanent residents at the address below.

Jess

From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Sent: June 29, 2020 3:52 PM
To: Township Of Greater Madawaska <admin@greatermadawaska.com>; Cathy Appleyard <cappleyard@greatermadawaska.com>
Cc: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Subject: RE: New Contact Information - 682 Ferguson Lake Road - Ferguson Lake Road Rehabilitation Project (102.20.025)

Thanks Jessica –

Any chance you know if they have another address for mailings? Or are they permanent residents at 682 Ferguson Lake Road?

Thanks!

Dan.

Sincerely,

Dan Hagan, P.Geol.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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From: Township Of Greater Madawaska <admin@greatermadawaska.com>
Sent: Monday, June 29, 2020 2:53 PM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Cathy Appleyard <cappleyard@greatermadawaska.com>
Cc: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Subject: RE: New Contact Information - 682 Ferguson Lake Road - Ferguson Lake Road Rehabilitation Project (102.20.025)

Hi Dan,

Please see information below regarding new ownership:

Serge Poirier & Nicole Desbiens-Poirier
682 Ferguson Lake Road
Renfrew, ON K7V 3Z7

Regards,

Jessica Schroeder
Clerk-Receptionist

From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Sent: June 29, 2020 2:43 PM
To: Cathy Appleyard <cappleyard@greatermadawaska.com>; Township Of Greater Madawaska <admin@greatermadawaska.com>
Cc: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Subject: New Contact Information - 682 Ferguson Lake Road - Ferguson Lake Road Rehabilitation Project (102.20.025)

Good afternoon, Cathy and Jessica –

I'm hoping one of you can help us...

We have received a response to the *Notice of Study Commencement* from Ms. Bernadette Culhane, now the former owner of 682 Ferguson Lake Road, noting that she has sold the property as of May 15, 2020.

Would the Township of Greater Madawaska happen to have any contact details on the new owners of that property? Unfortunately, Ms. Culhane does not know the new owners names, and we would like to make sure that we send out the *Notice of Study Commencement* (Notice #1) to the new owners as soon as possible.

Any information you may be able to assist with would be much appreciated.

Thanks and have a great evening -

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: P mountainridge <mountainridge1422@hotmail.com>
Sent: Tuesday, June 30, 2020 10:30 AM
To: Solutions - Greenview
Subject: Attention: Mr. Dan Hagan - Re: Notice of study commencement - reconstruction of Ferguson Road Project
Attachments: 1.jpeg; 2.jpeg

Dear Mr. Hagan,

Please find attached signed copies of the Project Comment Forms.

We would like to be kept informed regarding project proposals relating to the development of the Ferguson Lake Road.

Yours truly,
William and Primrose Blair

1422 Kennelly Mountain Road
Renfrew, Ontario
K7V 3Z7
613-432-2735
613-570-0308

Project Comment Form

Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Please refer to the provided information and Notice of Study Commencement associated with the above-noted project.

Name: JOA BLAIR
Agency (if applicable): _____
Address: 1422 KENNELLY MTN. ROAD - RENFREW ONT
Email: MOUNTAINRIDGE1422@HOTMAIL.COM.

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☒ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☒ I/We wish to be involved further in the project as noted below:

WE EXPECT TO SEE ALL DEVELOPMENT PLANS IN ADVANCE
OF THIS PROJECT'S COMMENCEMENT.
Thank you

JOA Blair
Signature

Please return this completed form by July 6, 2020 to:

Mr. Dan Hagan, P.Geo.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

See letter from June 30 - 3 min re survey study

June 22, 2020

BY REGULAR MAIL

Indigenous and Northern Affairs Canada
655 Bay Street, Suite 700, 9th Floor
Toronto, ON
M5G 2K4

Attention: Shawn Green
Environmental Officer

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Shawn Green:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

The Township is planning to reconstruct Ferguson Lake Road to improve road safety, efficiency, drainage, and active transportation uses. The planned reconstruction includes road realignments in an effort to achieve the above noted improvements. It is the Township's intention to proceed with construction of the project as early as spring 2021.

This *Notice of Study Commencement* (Notice) has been provided to you as part of the project's consultation program. This Notice and related documents have been provided as formal notification of the project and to provide an opportunity for you to comment.

Thank you in advance for your consideration of this project. Please provide any comments or feedback on the attached *Project Comment Form* (Form) via email or fax addressed to the undersigned, for review and consideration as the project moves forward. Any pertinent review comments are requested by July 6, 2020, for consideration in the next steps of the study.

If you have any questions regarding this submission, we ask that you review the attached Notice, complete the attached Form, and submit the Form for our review and file. At your convenience, please contact the undersigned at solutions@greenview-environmental.ca with any other project-related questions.

All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

Dan Hagan (Greenview)

From: Marnie Peters <peters.marnie@gmail.com>
Sent: Monday, July 6, 2020 3:51 PM
To: Solutions - Greenview; cao@greatermadawaska.com
Subject: Redevelopment of Ferguson Lake Rd

Hello,

Just wondering if there is any additional information that you can send to me regarding the redevelopment of Ferguson Lake Rd.

Many thanks
Cheers
Marnie

--

Marnie Peters

Dan Hagan (Greenview)

From: Kerry-Lynn Mohr <klmohr17@icloud.com>
Sent: Monday, July 6, 2020 10:34 AM
To: Solutions - Greenview
Cc: cao@greatermadawaska.com; Dave Mohr; Jo Coughlin; Sharon Paterson; emilyjmeyers@hotmail.com
Subject: Ferguson Lake Road EA

Dear Mr. Hagan,

My husband and I reside at 812 Ferguson Lake Road. We are very interested in the EA being conducted for our roadway. We wish to be involved in the EA process. Please keep us on the mailing list.

Can you provide any information on the design speed, lane widths, shoulder widths and alignment options? We do have concerns with sight lines along the roadway and drainage.

I have copied my neighbours on the email to ensure they are aware of the EA.

Thank you,

Kerry-Lynn Mohr

Sent from my iPad

Dan Hagan (Greenview)

From: Sharon Paterson <sharon.paterson97@gmail.com>
Sent: Monday, July 6, 2020 10:40 AM
To: Kerry-Lynn Mohr
Cc: Solutions - Greenview; cao@greatermadawaska.com; Dave Mohr; Jo Coughlin; emilyjmeyers@hotmail.com
Subject: Re: Ferguson Lake Road EA

Hello Mr Hagan

We are at 772 Ferguson Lake Road

We as well wish to be involved in the EA process and would like to be kept in the mailing list Regards Sharon Paterson

Sent from my iPhone

> On Jul 6, 2020, at 9:34 AM, Kerry-Lynn Mohr <klmohr17@icloud.com> wrote:

>

>

> Dear Mr. Hagan,

>

> My husband and I reside at 812 Ferguson Lake Road. We are very interested in the EA being conducted for our roadway. We wish to be involved in the EA process. Please keep us on the mailing list.

>

> Can you provide any information on the design speed, lane widths, shoulder widths and alignment options? We do have concerns with sight lines along the roadway and drainage.

>

> I have copied my neighbours on the email to ensure they are aware of the EA.

>

> Thank you,

>

> Kerry-Lynn Mohr

>

> Sent from my iPad

Dan Hagan (Greenview)

From: Harvey, Joseph (MHSTCI) <Joseph.Harvey@ontario.ca>
Sent: Thursday, July 9, 2020 6:44 PM
To: Solutions - Greenview
Cc: Livingstone, Kimberly (MHSTCI); Barboza, Karla (MHSTCI); Celine Boutin (Greenview);
cao@greatermadawaska.com
Subject: Reconstruction of Ferguson Lake Road Project Schedule B - Municipal Class Environmental
Assessment
Attachments: 2020-07-09_FergusonLakeRdMHSTCI-Ltr.pdf

Dan Hagan,

Please find attached MHSTCI's comments for this project. Contact Kimberly Livingstone with any further questions or concerns.

Joseph Harvey

On behalf of

Kimberly Livingstone
Heritage Planner (A)
Heritage Planning Unit
Kimberly.Livingstone@ontario.ca

**Ministry of Heritage, Sport,
Tourism and Culture Industries**

Programs and Services Branch
401 Bay Street, Suite 1700
Toronto, ON M7A 0A7
Tel: 416.314.7133

**Ministère des Industries du Patrimoine,
du Sport, du Tourisme et de la Culture**

Direction des programmes et des services
401, rue Bay, Bureau 1700
Toronto, ON M7A 0A7
Tél: 416.314.7133



July 9th, 2020

EMAIL ONLY

Dan Hagan, P. Geo.
Senior Project Manager
Greenview Environmental Management Ltd.
13 Commerce Court
Bancroft, Ontario K0L 1C0
solutions@greenview-environmental.ca

MHSTCI File : 0012627
Proponent : Township of Greater Madawaska
Subject : Notice of Study Commencement
Project : Reconstruction of Ferguson Lake Road Project
Location : Township of Greater Madawaska

Dear Allison Holtzhauer:

Thank you for providing the Ministry of Heritage, Sport, Tourism and Culture Industries (MHSTCI) with the Notice of Study Commencement for the above-referenced project. MHSTCI's interest in this Environmental Assessment (EA) project relates to its mandate of conserving Ontario's cultural heritage, which includes:

- Archaeological resources, including land and marine;
- Built heritage resources, including bridges and monuments; and,
- Cultural heritage landscapes.

Under the EA process, the proponent is required to determine a project's potential impact on cultural heritage resources. If any municipal bridges may be impacted by this project, we can provide additional screening documentation as formulated by the Municipal Engineers Association in consultation with MHSTCI.

Project Summary

The Township of Greater Madawaska is undertaking a study to determine the most suitable alternative to reconstruct Ferguson Lake Road, from approximately Campground Side Road to Kennelly Mountain Road. The study is being undertaken in accordance with a Schedule B Undertaking of the Municipal Class Environmental Assessment (MCEA, 2015), as amended.

Identifying Cultural Heritage Resources

While some cultural heritage resources may have already been formally identified, others may be identified through screening and evaluation. Indigenous communities may have knowledge that can contribute to the identification of cultural heritage resources, and we suggest that any engagement with Indigenous communities includes a discussion about known or potential cultural heritage resources that are of value to these communities. Municipal Heritage Committees, historical societies and other local heritage organizations may also have knowledge that contributes to the identification of cultural heritage resources.

Archaeological Resources

This EA project may impact archaeological resources and should be screened using the MHSTCI [Criteria for Evaluating Archaeological Potential](#) and [Criteria for Evaluating Marine Archaeological Potential](#) to determine if an archaeological assessment is needed. MHSTCI archaeological sites data are available at archaeology@ontario.ca. If the EA project area exhibits archaeological potential, then an archaeological assessment (AA) should be undertaken by an archaeologist licenced under the OHA, who is responsible for submitting the report directly to MHSTCI for review.

Built Heritage and Cultural Heritage Landscapes

The MHSTCI [Criteria for Evaluating Potential for Built Heritage Resources and Cultural Heritage Landscapes](#) should be completed to help determine whether this EA project may impact cultural heritage resources. If potential or known heritage resources exist, MHSTCI recommends that a Heritage Impact Assessment (HIA), prepared by a qualified consultant, should be completed to assess potential project impacts. Our Ministry's [Info Sheet #5: Heritage Impact Assessments and Conservation Plans](#) outlines the scope of HIAs. Please send the HIA to MHSTCI for review, and make it available to local organizations or individuals who have expressed interest in review.

Environmental Assessment Reporting

All technical cultural heritage studies and their recommendations are to be addressed and incorporated into EA projects. Please advise MHSTCI whether any technical cultural heritage studies will be completed for this EA project, and provide them to MHSTCI before issuing a Notice of Completion or commencing any work on the site. If screening has identified no known or potential cultural heritage resources, or no impacts to these resources, please include the completed checklists and supporting documentation in the EA report or file.

Thank you for consulting MHSTCI on this project and please continue to do so throughout the EA process. If you have any questions or require clarification, do not hesitate to contact Kimberly Livingstone.

Sincerely,

Joseph Harvey
On behalf of

Kimberly Livingstone
Heritage Planner (A)
Heritage Planning Unit
Kimberly.Livingstone@ontario.ca

Copied to: Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska
Celine Boutin, Administrator, Greenview Environmental Management Ltd.

It is the sole responsibility of proponents to ensure that any information and documentation submitted as part of their EA report or file is accurate. MHSTCI makes no representation or warranty as to the completeness, accuracy or quality of the any checklists, reports or supporting documentation submitted as part of the EA process, and in no way shall MHSTCI be liable for any harm, damages, costs, expenses, losses, claims or actions that may result if any checklists, reports or supporting documents are discovered to be inaccurate, incomplete, misleading or fraudulent.

Please notify MHSTCI if archaeological resources are impacted by EA project work. All activities impacting archaeological resources must cease immediately, and a licensed archaeologist is required to carry out an archaeological assessment in accordance with the *Ontario Heritage Act* and the *Standards and Guidelines for Consultant Archaeologists*.

If human remains are encountered, all activities must cease immediately and the local police as well as the Registrar, Burials of the Ministry of Government and Consumer Services (416-326-8800) must be contacted. In situations where human remains are associated with archaeological resources, MHSTCI should also be notified to ensure that the site is not subject to unlicensed alterations which would be a contravention of the *Ontario Heritage Act*.

Dan Hagan (Greenview)

From: Samantha Wilson <wilson.s@ainleygroup.com>
Sent: Friday, July 10, 2020 2:15 PM
To: lauren.trute@ontario.ca
Cc: 'Scott Reynolds'; Dan Hagan (Greenview); David Davison
Subject: Information Request - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska
Attachments: Study Area Figure.pdf; Fisheries Table for Information Request - Ferguson Lake Road.xlsx

Hi Lauren,

We are working with Greenview Environmental to complete a Natural Heritage and Environmental Impact Study on Ferguson Lake Road from Kennelly Mountain Road to 200 m south of Campground Side Road.

We have determined that there are eight (8) locations within the study area which are interpreted to represent fish habitat. We are requesting any available fisheries information on these eight locations, which I have identified in the attached table. We also request any additional information available from MNRF within the identified study limits pertaining to natural heritage features such as ANSI's, PSW's, significant woodlands, significant wildlife habitat, etc.

Please let me know if you require any additional information or if you have any questions.

Thanks,

Sam Wilson, B.Sc.
Environmental Technician



Ainley Graham & Associates Limited
2724 Fenton Road
Ottawa, Ontario, K1T 3T7
Tel: (613) 822-1052 ext. 223
Fax: (613) 822-1573
Cell: (613) 848-5888
wilson.s@ainleygroup.com

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From: Trute, Lauren (MNRF) <Lauren.Trute@ontario.ca>
Sent: June 29, 2020 10:24 PM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>
Cc: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Hello Dan et al,

I just want to flag for you the importance of connecting with MECP regarding species at risk as soon as possible, especially if there will any field work involved. There are 2 SAR plant species (Butternut and Panax – please note data sensitivity for that species) confirmed along and immediately adjacent to the road, along with Blanding's turtle.

Given that the work is proposed to begin next year, do you have any additional information on water crossings (type, location, sizing), and anything else that will help me better provide you with the information you need (fisheries, SWH, etc).

Thanks,
Lauren

From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Sent: June-29-20 1:58 PM
To: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>
Cc: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>; Trute, Lauren (MNRF) <Lauren.Trute@ontario.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Good afternoon, Kristen –

Best of luck with everything! I'm looking forward to working with Lauren and any other representatives from the MNRF Pembroke District Office on this project.

Please contact me at any time, and be well.

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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From: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>
Sent: Monday, June 29, 2020 1:25 PM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Cc: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>; Trute, Lauren (MNRF) <Lauren.Trute@ontario.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Thank you so much for working with us on this one, Dan. I have cc'd Lauren Trute on this email. She is the Management Biologist who will be reviewing this file.

At this time I still do not have a name for my replacement; if things do not change, you might see comments coming directly from Lauren.

Thanks again!

Kristen Wagner, B.Sc.
District Planner

Ministry of Natural Resources & Forestry | Pembroke District
31 Riverside Dr.
Pembroke, ON K8A 8R6

kristen.wagner@ontario.ca | Phone: (613) 732-5522 | Fax: (613) 732-2972



"As part of providing [accessible customer service](#), please let me know if you have any accommodation needs or require communication supports or alternate formats."

From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Sent: June-25-20 1:05 PM
To: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>
Cc: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Good afternoon, Ms. Wagner –

Thanks for reaching out to us about this project. My name is Dan Hagan, and I will be performing the function of Project Manager on this project for the Township of Greater Madawaska.

First off - I want to wish you the best of luck as you head toward maternity leave – congratulations!

With respect to the timing on the Ontario Ministry of Natural Resources and Forestry's (MNRF) review and response regarding our project, we can 100% work with you. We expect that the MNRF's input on this project to be one of the most important voices of all the agencies involved. With that in mind, would it be possible for the MNRF Pembroke Office to provide us with comments for the end of July 2020?

Whatever the case, myself, Greenview, and the Township of Greater Madawaska are prepared to work with you and your colleagues at the MNRF Pembroke Office in any way we can.

You can reach me via this email address at your convenience.

Thank you again, and we look forward to speaking with you further.

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

From: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>

Sent: June-25-20 11:55 AM

To: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>

Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Thank you, Celine. I will have this reviewed.

I'm not sure if I should be speaking with you about this, or if there is someone you can direct me to. I am currently in the process of wrapping up files before I start mat leave (mid-next week). As of now I don't have a replacement.

Is there any leniency on July 6 as a hard deadline for comments? Our Ministry is still working remotely, so it has caused some delays in our ability to review.

Please let me know the best person to speak to about this, as we are interested in providing comments – my situation just makes it a little tricky.

Thanks!

Kristen Wagner, B.Sc.
District Planner

Ministry of Natural Resources & Forestry | Pembroke District
31 Riverside Dr.
Pembroke, ON K8A 8R6

kristen.wagner@ontario.ca | Phone: (613) 732-5522 | Fax: (613) 732-2972



"As part of providing accessible customer service, please let me know if you have any accommodation needs or require communication supports or alternate formats."

From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>

Sent: June-22-20 1:58 PM

To: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>

Cc: Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

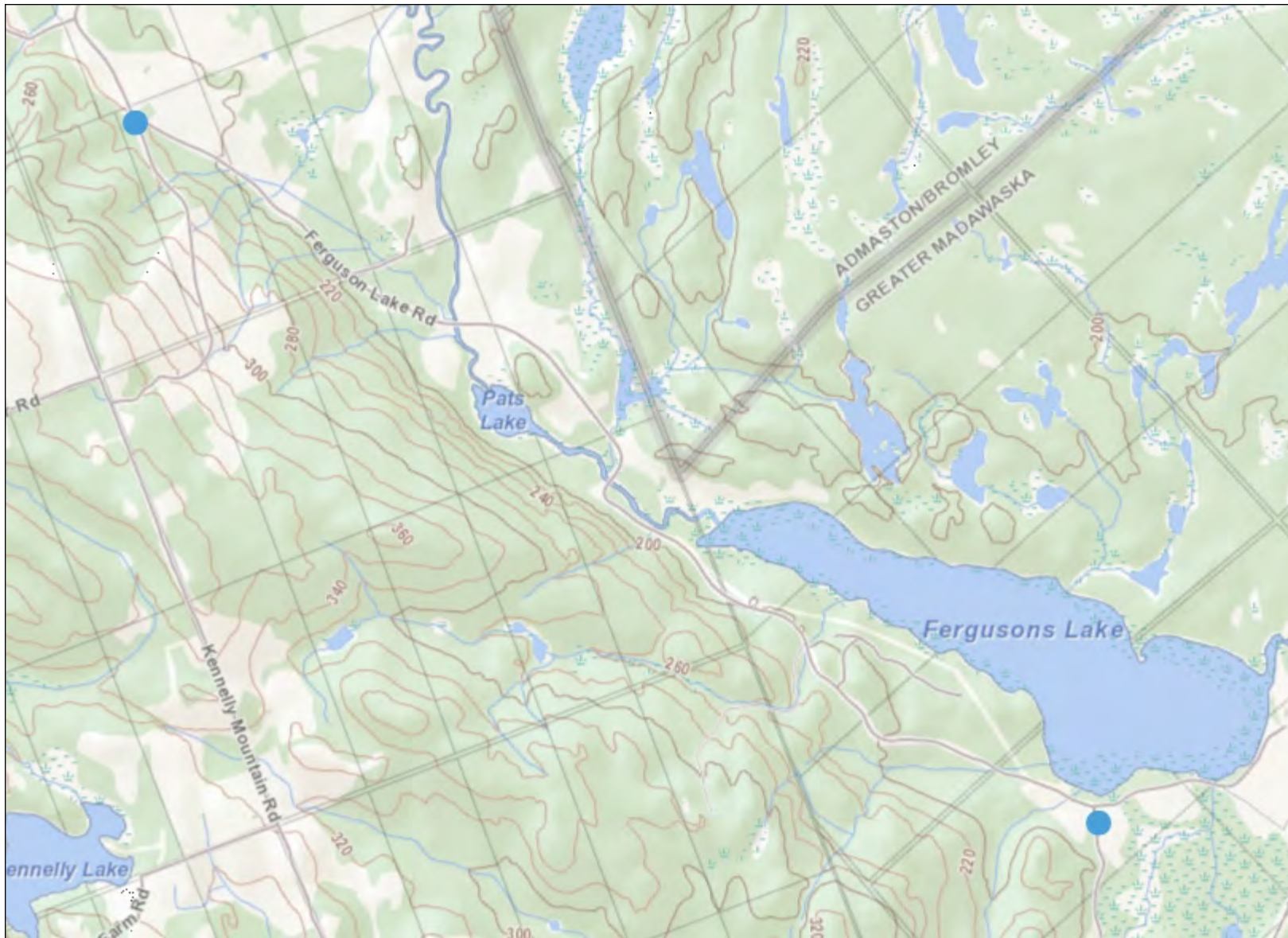
Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Legend

- Assessment Parcel
- Woodland
- Conservation Reserve
- Provincial Park
- Natural Heritage System
- Ecoregion
- Wetland**
 - Provincially Significant Wetland Evaluated
 - Non - Provincially Significant Wetland Evaluated
 - Unevaluated Wetland
- Area of Natural Heritage & Scientific Interest (ANSI)**
 - Provincially Significant Life Science ANSI
 - Provincially Significant Earth Science ANSI
- Greenbelt Plan**
 - Boundary
 - Greenbelt External Connections
- Land Use Designations**
 - Protected Countryside
 - Greenbelt Towns and Villages
 - Greenbelt Hamlets
 - Urban River Valley
 - Greenbelt Specialty Crop Area
- Niagara Escarpment Plan (NEP)**
 - Boundary
 - Parks and Open Space System
- Land Use Designations**
 - Escarpment Natural Area
 - Escarpment Protection Area
 - Escarpment Rural Area
 - Mineral Resource Extraction Area
 - Escarpment Recreation Area
 - Urban Area
 - Minor Urban Centre
- Oak Ridges Moraine Conservation Plan (ORM)**
 - Boundary
- Land Use Designations**
 - Natural Core Area
 - Natural Linkage Area
 - Countryside Area
 - Rural Settlement
 - Palgrave Estates Residential Community
 - Settlement Area

1.3 0 0.65 1.3 Kilometers



This map should not be relied on as a precise indicator of routes or locations, nor as a guide to navigation. The Ontario Ministry of Natural Resources and Forestry (OMNRF) shall not be liable in any way for the use of, or reliance upon, this map or any information on this map.

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EIS FOR ROAD REHABILITATION ON FERGUSON LAKE ROAD

Ferguson Lake Road - Kennelly Mountain Road to 200 m South of Campground Side Road

Fish and Fish Habitat Information Request

No.	Location ID / Water Feature Name	Location (UTM)	Fish Species Expected
1	Station 7+865 / Unnamed tributary of Constant Creek	18T 352279, 5020052	
2	Station 6+875 / Adjacent to an unnamed tributary of Constant Creek	18T 353048, 5019505	
3	Station 6+020 / Unnamed tributary of Constant Creek	18T 353713, 5019007	
4	Station 5+718 / Roadside drainage to Constant Creek	18T 353699, 5018738	
5	Station 5+515 / Unnamed tributary of Constant Creek	18T 353883, 5018616	
6	Station 4+625 / Unnamed tributary of Ferguson Lake	18T 354524, 5018099	
7	Station 4+000 / Roadside drainage	18T 354915, 5017705	
8	Station 3+590 / Unnamed tributary of Ferguson Lake	18T 355298, 5017572	

**Habitat information /
locations (fish passage
barriers, known spawning
habitats etc.)**

**Historical data on fish
species present, including
whether the subject
waterbody(s) are considered
to support any vulnerable,
threatened or endangered
aquatic species.**

**MNR fisheries management
objectives, if applicable.**

**MNR interpretation of fish
and fish habitat sensitivity
(scale of high, moderate,
low or unknown as per
DFO's Risk Management
Framework).**

**In-water timing windows for
construction.**

Dan Hagan (Greenview)

From: Guy Lafrance <guy.lafrance@cogeco.com>
Sent: Friday, July 10, 2020 11:04 AM
To: Solutions - Greenview
Cc: Guy Lafrance
Subject: Reconstruction of Ferguson Lake road
Attachments: Scanned from a Xerox Multifunction Printer.pdf

Hi

Cogeco has no plant in the area outlined on your plan.

If you require additional information please contact me.

Regards,

GUY LAFRANCE

Lead, OSP, Customer Network Delivery

C 613 330 0308 | F 613 932 5882

517 Pitt Street
Cornwall, Ontario K6J 3R4 Canada
guy.lafrance@cogeco.com



Project Comment Form

Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Please refer to the provided information and Notice of Study Commencement associated with the above-noted project.

Name: Will O'Brien
Agency (if applicable):
Address: 1356 Ferguson Lake Rd Renfrew On K7V3Z7
Email: obrienwill@ yahoo.ca

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☒ I/We wish to be involved further in the project as noted below:

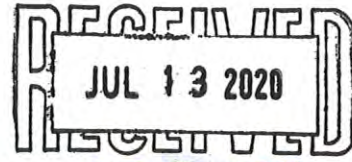
Your letter states "The study will consider and assess
"reconstruction alternatives". I would like to know
what these could amount to & to be informed

Will O'Brien
Signature

Please return this completed form by July 6, 2020 to:

Mr. Dan Hagan, P.Geo.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.



Project Comment Form

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Please refer to the provided information and Notice of Study Commencement associated with the above-noted project.

Name: PATRICK LANE
Agency (if applicable): _____
Address: 142 COUNTRY LANE KANATA ONT K2L1J7
Email: patrickT-5@SYMPATICO.CA

Based on the provided information, please advise as follows:

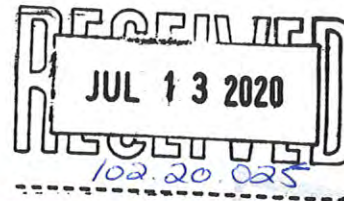
- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☒ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☐ I/We wish to be involved further in the project as noted below:


Signature

Please return this completed form by **July 6, 2020** to:

**Mr. Dan Hagan, P. Geo.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057**

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.



Project Comment Form

Re: **Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Please refer to the provided information and Notice of Study Commencement associated with the above-noted project.

Name: Garry Switzer
Agency (if applicable): _____
Address: 116 Bonnie L. RR2 Kinburn Ont. K0A 2H0
Email: _____

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☒ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☐ I/We wish to be involved further in the project as noted below:


Signature

Please return this completed form by **July 6, 2020** to:

**Mr. Dan Hagan, P.Geo.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057**

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Monday, July 13, 2020 9:29 AM
To: klmohr17@icloud.com
Cc: Allison Holtzhauer (TGM); Tyler Peters (GEML); Solutions - Greenview
Subject: RE: Ferguson Lake Road EA (102.20.025)

Tracking:	Recipient	Delivery
	klmohr17@icloud.com	
	Allison Holtzhauer (TGM)	
	Tyler Peters (GEML)	Delivered: 7/13/2020 9:29 AM
	Solutions - Greenview	

Dear Ms. Mohr:

Thank you for your recent response to the *Notice of Study Commencement* for the Township of Greater Madawaska's (Township's) Schedule B Municipal Class Environmental Assessment (MCEA) process, related to the reconstruction of Ferguson Lake Road.

Your input is important and has been documented accordingly for consideration in next steps in the process.

On behalf of the Township, we will keep you informed as the study progresses.

Please continue to submit any additional input to solutions@greenview-environmental.ca. Additionally, if you have not already done so, we ask that you please complete and submit a copy of the *Project Comment Form* (attached) related to the Notice of Study Commencement so that we can include it in the project file.

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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-----Original Message-----

From: Kerry-Lynn Mohr <klmohr17@icloud.com>
Sent: July 6, 2020 9:34 AM
To: solutions@greenview-environmental.ca
Cc: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>; Dave Mohr <mohr812@mail.com>; Jo Coughlin <j.coughlin@live.com>; Sharon Paterson <sharon.paterson97@gmail.com>; emilyjmeyers@hotmail.com
Subject: Ferguson Lake Road EA

Dear Mr. Hagan,

My husband and I reside at 812 Ferguson Lake Road. We are very interested in the EA being conducted for our roadway. We wish to be involved in the EA process. Please keep us on the mailing list.

Can you provide any information on the design speed, lane widths, shoulder widths and alignment options? We do have concerns with sight lines along the roadway and drainage.

I have copied my neighbours on the email to ensure they are aware of the EA.

Thank you,

Kerry-Lynn Mohr

Sent from my iPad

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Monday, July 13, 2020 9:36 AM
To: sharon.paterson97@gmail.com
Cc: Allison Holtzhauer (TGM); Tyler Peters (GEML); Solutions - Greenview
Subject: RE: Ferguson Lake Road EA (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf

Tracking:	Recipient	Delivery
	sharon.paterson97@gmail.com	
	Allison Holtzhauer (TGM)	
	Tyler Peters (GEML)	Delivered: 7/13/2020 9:37 AM
	Solutions - Greenview	

Dear Ms. Paterson:

Thank you for your recent response to the *Notice of Study Commencement* for the Township of Greater Madawaska's (Township's) Schedule B Municipal Class Environmental Assessment (MCEA) process, related to the reconstruction of Ferguson Lake Road.

Your input is important and has been documented accordingly for consideration in next steps in the process.

On behalf of the Township, we will keep you informed as the study progresses.

Please continue to submit any additional input to solutions@greenview-environmental.ca. Additionally, if you have not already done so, we ask that you please complete and submit a copy of the *Project Comment Form* (attached) related to the Notice of Study Commencement so that we can include it in the project file.

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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-----Original Message-----

From: Sharon Paterson <sharon.paterson97@gmail.com>

Sent: July 6, 2020 9:40 AM

To: Kerry-Lynn Mohr <klmohr17@icloud.com>

Cc: solutions@greenview-environmental.ca; Allison Holtzhauer <aholtzhauer@greatermadawaska.com>; Dave Mohr <mohr812@mail.com>; Jo Coughlin <j.coughlin@live.com>; emilyjmeyers@hotmail.com

Subject: Re: Ferguson Lake Road EA

Hello Mr Hagan

We are at 772 Ferguson Lake Road

We as well wish to be involved in the EA process and would like to be kept in the mailing list Regards Sharon Paterson

Sent from my iPhone

> On Jul 6, 2020, at 9:34 AM, Kerry-Lynn Mohr <klmohr17@icloud.com> wrote:

>

>

> Dear Mr. Hagan,

>

> My husband and I reside at 812 Ferguson Lake Road. We are very interested in the EA being conducted for our roadway. We wish to be involved in the EA process. Please keep us on the mailing list.

>

> Can you provide any information on the design speed, lane widths, shoulder widths and alignment options? We do have concerns with sight lines along the roadway and drainage.

>

> I have copied my neighbours on the email to ensure they are aware of the EA.

>

> Thank you,

>

> Kerry-Lynn Mohr

>

> Sent from my iPad

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Monday, July 13, 2020 9:38 AM
To: peters.marnie@gmail.com
Cc: Allison Holtzhauer (TGM); Tyler Peters (GEML); Solutions - Greenview
Subject: RE: Redevelopment of Ferguson Lake Rd (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf

Tracking:	Recipient	Delivery
	peters.marnie@gmail.com	
	Allison Holtzhauer (TGM)	
	Tyler Peters (GEML)	Delivered: 7/13/2020 9:39 AM
	Solutions - Greenview	

Dear Ms. Peters:

Thank you for your recent response to the *Notice of Study Commencement* for the Township of Greater Madawaska's (Township's) Schedule B Municipal Class Environmental Assessment (MCEA) process, related to the reconstruction of Ferguson Lake Road.

Your input is important and has been documented accordingly for consideration in next steps in the process.

On behalf of the Township, we will keep you informed as the study progresses.

Please continue to submit any additional input to solutions@greenview-environmental.ca. Additionally, if you have not already done so, we ask that you please complete and submit a copy of the *Project Comment Form* (attached) related to the Notice of Study Commencement so that we can include it in the project file.

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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From: Marnie Peters <peters.marnie@gmail.com>
Sent: July 6, 2020 2:51 PM
To: solutions@greenview-environmental.ca; Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Subject: Redevelopment of Ferguson Lake Rd

Hello,

Just wondering if there is any additional information that you can send to me regarding the redevelopment of Ferguson Lake Rd.

Many thanks
Cheers
Marnie

--

Marnie Peters

Dan Hagan (Greenview)

From: Andrew Boyd <aboyd@ifsassociates.ca>
Sent: Thursday, July 16, 2020 10:10 PM
To: Solutions - Greenview
Subject: Re. Ferguson Lake Road Project
Attachments: Notice of Study - Ferguson Lake Road (Greenview File 10220025).pdf

Hello,
Please find the attached form indicating my desire to be kept informed about the progress of this project.
Thank you.
Andrew Boyd
613-838-5717

Project Comment Form

Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Please refer to the provided information and Notice of Study Commencement associated with the above-noted project.

Name: Andrew Boyd
Agency (if applicable): Integrated Forestry Services Inc.
Address: P.O. Box 13593
Email: aboyle@ifassociates.ca

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☒ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☐ I/We wish to be involved further in the project as noted below:



Signature

Please return this completed form by **July 6, 2020** to:

Mr. Dan Hagan, P. Geo.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Dan Hagan (Greenview)

From: Ann Newman <ann.newman@enbridge.com>
Sent: Wednesday, July 22, 2020 3:13 PM
To: Solutions - Greenview
Cc: pubwks@twp.tweed.on.ca; cao@greatermadawaska.com
Subject: Env. Study - Enbridge Pipelines Inc. comments - Hastings & Renfrew Counties

Good day, I am in receipt of 2 notices of study.
Enbridge Pipelines Inc. does not have any facilities impacted by either project.

1. Replacement of Geatrix Bridge, Tweed, Hastings County
2. Reconstruction of Ferguson Lake Road, Twp of Greater Madawaska, County of Renfrew.

These notices were sent to Enbridge Pipelines Inc. – this is the company that owns and operates the crude oil transportation system across Canada.

There is a 30" dia. Crude oil pipeline running parallel to Hwy 401 in these counties.

Enbridge Gas Distribution Inc. is the natural gas distribution company that could also be impacted by these projects.
Enbridge Gas is a separate operating company from Enbridge Pipelines Inc.

To obtain feedback with regards to natural gas facilities you can direct your questions to mark-ups@enbridge.com
If these areas were serviced by legacy Union Gas, also now Enbridge Gas Distribution Inc. the inquiries will be forwarded to the proper person internally for review.

The company continues to work through the harmonization of the gas distribution companies.

If you have any questions please let me know.
Thank you

Ann Newman, CET SRWA
Supervisor
Lands & Right-of-Way, Eastern Canada

ENBRIDGE
TEL: 519-339-0503 | CELL: 519-490-5013 | FAX: 519-339-0510 | ann.newman@enbridge.com
Western Research Park, 1086 Modeland Rd, Bldg 1050, Sarnia, ON N7S 6L2
enbridge.com
Safety. Integrity. Respect.

Dan Hagan (Greenview)

From: Celine Boutin (Greenview)
Sent: Wednesday, July 22, 2020 4:40 PM
To: mark-ups@enbridge.com
Cc: Solutions - Greenview
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - FLR - Notice of Study Commencement - Letter (Enbridge Gas Distribution Inc.) - Jul22-20.docx.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Jun22-20.pdf

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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July 22, 2020

BY ELECTRONIC MAIL

Enbridge Gas Distribution Inc.

mark-ups@enbridge.com

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Enbridge Gas Distribution Inc.:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

The Township is planning to reconstruct Ferguson Lake Road to improve road safety, efficiency, drainage, and active transportation uses. The planned reconstruction includes road realignments in an effort to achieve the above noted improvements. It is the Township's intention to proceed with construction of the project as early as spring 2021.

This *Notice of Study Commencement* (Notice) has been provided to you as part of the project's consultation program. This Notice and related documents have been provided as formal notification of the project and to provide an opportunity for you to comment.

Thank you in advance for your consideration of this project. Please provide any comments or feedback on the attached *Project Comment Form* (Form) via email or fax addressed to the undersigned, for review and consideration as the project moves forward. Any pertinent review comments are requested by July 6, 2020, for consideration in the next steps of the study.

If you have any questions regarding this submission, we ask that you review the attached Notice, complete the attached Form, and submit the Form for our review and file. At your convenience, please contact the undersigned at solutions@greenview-environmental.ca with any other project-related questions.

All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

Dan Hagan (Greenview)

From: mjducharme@sympatico.ca
Sent: Thursday, July 23, 2020 11:45 AM
To: Solutions - Greenview
Cc: marcelinktown@hotmail.com; marcel.ducharme@forces.gc.ca
Subject: Reconstruction of Ferguson Lake Road Project
Attachments: Ferguson Lake Rd Feedback Form_Ducharme.pdf

Mr. Hagan,

Please find attached the project comment form regarding the notice of study commencement for subject project. Please be advised that your letter did not reach us until after the request return date likely due to COVID-19 mail issues, so we appreciate you respecting our request to be involved in this project with respect to the following (as per the signed letter):

- Any potential widening of the road along our property
- Any impact on accessing our property (e.g. blockage of our main access road)
- Any environmental impact on the creek that runs through our property that crosses under Ferguson Lake road (note: this creek is right next to the entrance to our 13.5 acres of land that is adjacent to Ferguson Lake Road)

To avoid any delays in future communications please feel free to use this email.

Regards,

Marcel and Janice Ducharme

Project Comment Form

Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Please refer to the provided information and Notice of Study Commencement associated with the above-noted project.

Name: Marcel and Janice Ducharme
Agency (if applicable): _____
Address: 1039 Megan's St, Kingston ON K7P 3E6
Email: mjducharme@sympatico.ca

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☒ I/We wish to be involved further in the project as noted below:

- ① Any ~~imp~~ potential widening of road along our property
- ② Any impact on accessing our property (e.g. Main access road) ^{blockage of our}
- ③ Any impact ~~on~~ environmental impact on the creek that runs through our property that crosses Ferguson Lake Road.

M. Ducharme
Signature

Please return this completed form by **July 6, 2020** to:

Mr. Dan Hagan, P. Geo.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Project Comment Form

Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025

Please refer to the provided information and Notice of Study Commencement associated with the above-noted project.

Name: Serge Poirier
Agency (if applicable):
Address: 682 Ferguson Lake Rd
Email: sergepoirier007@gmail.com

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☒ I/We wish to be involved further in the project as noted below:

Drainage
Large culvert drain into our property
and flood in spring.
We would like to see proper drainage
of the culvert to the lake.


Signature

Please return this completed form by **July 6, 2020** to:

Mr. Dan Hagan, P.Geo.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Tuesday, July 28, 2020 11:01 AM
To: jon.orpana@ontario.ca
Cc: Solutions - Greenview; EA Notices to ERegion (MECP); Tyler Peters (GEML)
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - Notice of Study Commencement - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement - Project Comment Form - Jun22-20.pdf; 102.20.025 - Notice of Study Commencement (MECP - JO) - Jun22-20.pdf; 102.20.025 - FLR - MECP Streamlined EA Project Sheet - FINAL - Jun22-20 .xlsx

Importance: High

Good morning, Jon –

I'm following up this morning with respect to our communication to your office dated June 22, 2020, regarding the issuance of the *Notice of Study Commencement* (attached), relative to the Municipal Class Environmental Assessment (MCEA) Schedule B process for the Township of Greater Madawaska's Reconstruction of Ferguson Lake Road Project.

Based on this June 22, 2020 submission to your office, we are requesting an update on your review process and timeline for the MECP to provide us with the list of relevant First Nations Communities who are required to be contacted as part of the MCEA process. We would really like to proceed to provide relevant First Nation Communities with their copies of the Notice of Study Commencement as soon as possible, to satisfy the requirements of the MCEA process for Mandatory Point of Contact #1.

Thank you in advance for your time – if you have any questions regarding this communication, please feel free to contact me at your convenience.

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Sent: Monday, June 22, 2020 1:29 PM
To: jon.orpana@ontario.ca
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; EA Notices to ERegion (MECP) <eanotification.eregion@ontario.ca>
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: EA Notices to ERegion (MECP) <eanotification.eregion@ontario.ca>
Sent: Tuesday, July 28, 2020 11:10 AM
To: Dan Hagan (Greenview)
Cc: Solutions - Greenview; Tyler Peters (Greenview)
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Hello Dan,

I am followed up with our staff person and it appears she is on compassionate leave. Her files have been reassigned to another staff person to complete. I will touch base with her. Apologies for the delay.

Jon

Jon Orpana,
Environmental Planner / Environmental Assessment Coordinator
Ontario Ministry of the Environment, Conservation and Parks
Environmental Assessment and Permissions Division
Environmental Assessment Branch
1259 Gardiners Road, Unit 3
Kingston, Ontario
K7P 3J6

Cell Ph. 613-561-8250
Phone Number. 613 548-6918
jon.orpana@ontario.ca

From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Sent: July 28, 2020 10:01 AM
To: Orpana, Jon (MECP) <Jon.Orpana@ontario.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; EA Notices to ERegion (MECP) <eanotification.eregion@ontario.ca>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Importance: High

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Good morning, Jon –

I'm following up this morning with respect to our communication to your office dated June 22, 2020, regarding the issuance of the *Notice of Study Commencement* (attached), relative to the Municipal Class Environmental Assessment (MCEA) Schedule B process for the Township of Greater Madawaska's Reconstruction of Ferguson Lake Road Project.

Based on this June 22, 2020 submission to your office, we are requesting an update on your review process and timeline for the MECP to provide us with the list of relevant First Nations Communities who are required to be contacted as part of the MCEA process. We would really like to proceed to provide relevant First Nation Communities with their copies of the

Notice of Study Commencement as soon as possible, to satisfy the requirements of the MCEA process for Mandatory Point of Contact #1.

Thank you in advance for your time – if you have any questions regarding this communication, please feel free to contact me at your convenience.

Sincerely,

Dan Hagan, P. Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>

Sent: Monday, June 22, 2020 1:29 PM

To: jon.orpana@ontario.ca

Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; EA Notices to ERegion (MECP) <eanotification.eregion@ontario.ca>

Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Tuesday, July 28, 2020 11:25 AM
To: EA Notices to ERegion (MECP); Orpana, Jon (MECP)
Cc: Solutions - Greenview; Tyler Peters (Greenview)
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Hi Jon –

Thank you for your quick reply, and our condolences to your associate at the MECP Kingston. We are here to answer any questions you may have, and wish everyone in your office to be well in these difficult times.

Have a good day, sir -

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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From: EA Notices to ERegion (MECP) <eanotification.eregion@ontario.ca>
Sent: Tuesday, July 28, 2020 10:10 AM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Hello Dan,

I am followed up with our staff person and it appears she is on compassionate leave. Her files have been reassigned to another staff person to complete. I will touch base with her. Apologies for the delay.

Jon

Jon Orpana,
Environmental Planner / Environmental Assessment Coordinator
Ontario Ministry of the Environment, Conservation and Parks
Environmental Assessment and Permissions Division
Environmental Assessment Branch

1259 Gardiners Road, Unit 3
Kingston, Ontario
K7P 3J6

Cell Ph. 613-561-8250
Phone Number. 613 548-6918
jon.orpana@ontario.ca

From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Sent: July 28, 2020 10:01 AM
To: Orpana, Jon (MECP) <Jon.Orpana@ontario.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; EA Notices to ERegion (MECP) <eanotification.eregion@ontario.ca>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Importance: High

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Good morning, Jon –

I'm following up this morning with respect to our communication to your office dated June 22, 2020, regarding the issuance of the *Notice of Study Commencement* (attached), relative to the Municipal Class Environmental Assessment (MCEA) Schedule B process for the Township of Greater Madawaska's Reconstruction of Ferguson Lake Road Project.

Based on this June 22, 2020 submission to your office, we are requesting an update on your review process and timeline for the MECP to provide us with the list of relevant First Nations Communities who are required to be contacted as part of the MCEA process. We would really like to proceed to provide relevant First Nation Communities with their copies of the Notice of Study Commencement as soon as possible, to satisfy the requirements of the MCEA process for Mandatory Point of Contact #1.

Thank you in advance for your time – if you have any questions regarding this communication, please feel free to contact me at your convenience.

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



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From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Sent: Monday, June 22, 2020 1:29 PM
To: jon.orpana@ontario.ca
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; EA Notices to ERegion (MECP) <eanotification.eregion@ontario.ca>

Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Ontario Region / Region d'Ontario (IAAC/AEIC) <iaac.ontarioregion-regiondontario.aeic@canada.ca>
Sent: Wednesday, August 12, 2020 3:45 PM
To: Celine Boutin (Greenview)
Subject: RE: DUTY OFFICER: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: Letter A Reply - Agency to Greenview - Ferguson Lake Road Project.pdf

Hello Celine,

Please see reply to the above mentioned project.

Thank you,

Emily Webb

Administrative Clerk, Ontario Region Office
Impact Assessment Agency of Canada / Government of Canada
Emily.webb@canada.ca / Cell: 416-702-6202 Office: 416-952-1576

Commis Administrative, Bureau regional de L'Ontario
Agence d'évaluation d'impact du Canada / Gouvernement du Canada
Emily.webb@canada.ca / Cell: 416-702-6202 Office: 416-952-1576

From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Sent: June 22, 2020 2:35 PM
To: Schultz, Jeremy (IAAC/AEIC) <jeremy.schultz@canada.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101
www.greenview-environmental.ca

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Impact Assessment
Agency of Canada

Ontario Region
600-55 York Street
Toronto ON M5J 1R7

Agence d'évaluation
d'impact du Canada

Région de l'Ontario
600-55 rue York
Toronto ON M5J 1R7

August 12, 2020

Sent by email

Dan Hagan
Senior Project Manager
Greenview Environmental Management Limited
13 Commerce Court
Bancroft ON K0L 1C0
solutions@greenview-environmental.ca

Dear Dan Hagan:

Subject: Non-applicability of the *Impact Assessment Act* to the proposed Reconstruction of Ferguson Lake Road Project

Thank you for your correspondence, dated June 23, 2020, regarding the proposed Reconstruction of Ferguson Lake Road Project.

The *Impact Assessment Act* (IAA) outlines a process for assessing the impacts of certain major projects, including the assessment of positive and negative environmental, economic, health and social effects that are within the legislative authority of the Parliament of Canada. The *Physical Activities Regulations* (also known as the Project List) describe those projects that have the greatest potential to cause adverse effects in those areas and are subject to the requirements of IAA. Proponents of those projects are required to submit an Initial Project Description to the Impact Assessment Agency of Canada (the Agency).

Based on the information available to the Agency, your project does not appear to be described on the Project List. **Kindly review the requirements of IAA, including the Project List.**

If you believe that your project is not subject to IAA, and do not intend to submit an Initial Project Description, we kindly request that you remove the Agency from your distribution list.

.../2



- 2 -

If you have any questions, please feel free to contact us at
iaac.ontarioregion-regiondontario.aeic@canada.ca.

The attachment that follows provides web links to useful legislation, regulation,
and guidance documents.

Sincerely,

Anjala Puvananathan
Director, Ontario Region

Enclosure: Useful Legislation, Regulation, and Guidance Documents

Attachment – Useful Legislation, Regulation, and Guidance Documents

For more information on the *Impact Assessment Act*, please refer to the following links:

Legislation and Regulations:

<https://www.canada.ca/en/impact-assessment-agency/corporate/acts-regulations/legislation-regulations.html>

Impact Assessment Process Overview:

<https://www.canada.ca/en/impact-assessment-agency/services/policy-guidance/impact-assessment-process-overview.html>

Practitioner's Guide to Federal Impact Assessments under the *Impact Assessment Act*:

<https://www.canada.ca/en/impact-assessment-agency/services/policy-guidance/practitioners-guide-impact-assessment-act.html>

Compendium of Policies and Guidance Documents:

<https://www.canada.ca/en/impact-assessment-agency/services/policy-guidance.html>

Government of Canada News Release dated August 8, 2019:

<https://www.canada.ca/en/impact-assessment-agency/news/2019/08/better-rules-for-impact-assessments-come-into-effect-this-month.html>

Dan Hagan (Greenview)

From: Orpana, Jon (MECP) <Jon.Orpana@ontario.ca>
Sent: Wednesday, August 12, 2020 2:50 PM
To: Tyler Peters (Greenview)
Cc: Dan Hagan (Greenview); cao@greatermadawaska.com
Subject: RE: Ferguson Lake Reconstruction - Township of Greater Madawaska
Attachments: MEA_Ferguson Lake Reconstruction_Twp. Greater Madawaska.pdf

Hello Tyler,

As discussed please find the appropriate indigenous community list attached.

Apologies for any confusion and thanks for pointing out my cut and paste slip!

Regards,

Jon

Jon Orpana,
Environmental Planner / Environmental Assessment Coordinator
Ontario Ministry of the Environment, Conservation and Parks
Environmental Assessment and Permissions Division
Environmental Assessment Branch
1259 Gardiners Road, Unit 3
Kingston, Ontario
K7P 3J6

Cell Ph. 613-561-8250
Phone Number. 613 548-6918
jon.orpana@ontario.ca

From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: August 12, 2020 12:20 PM
To: Orpana, Jon (MECP) <Jon.Orpana@ontario.ca>
Cc: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Primeau, Charlie (MECP) <Charlie.Primeau@ontario.ca>; cao@greatermadawaska.com
Subject: RE: Ferguson Lake Reconstruction - Township of Greater Madawaska
Importance: High

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Hello Jon,

Please review and confirm the Indigenous communities list you have provided.

It is our understanding that this project's extents are solely within the Algonquin Land Claim area.

Your prompt attention to this is appreciated.

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Orpana, Jon (MECP) <Jon.Orpana@ontario.ca>

Sent: August 12, 2020 11:02 AM

To: cao@greatermadawaska.com

Cc: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Primeau, Charlie (MECP) <Charlie.Primeau@ontario.ca>

Subject: Ferguson Lake Reconstruction - Township of Greater Madawaska

Hello Dan,

Again, apologies for the delay. Please find MECP's preliminary comments on this project.

The indigenous community consultation list is included.

Have a great day.

Jon

Jon Orpana,
Environmental Planner / Environmental Assessment Coordinator
Ontario Ministry of the Environment, Conservation and Parks
Environmental Assessment and Permissions Division
Environmental Assessment Branch
1259 Gardiners Road, Unit 3
Kingston, Ontario
K7P 3J6

Cell Ph. 613-561-8250
Phone Number. 613 548-6918
jon.orpana@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
Téléc. : 416 314-8452

By email only

August 12, 2020

Attention: Ms. Allison Holtzer
cao@greatermadawaska.com

Dear Ms. Holtzer,

Reg.: Reconstruction of Ferguson Lake Road Project Schedule B – Municipal Class
Environmental Assessment

Thank you for providing the Notice of Study Commencement by email on June 22, 2020. The Notice indicates that the project is being planned as a schedule B activity under the Municipal Class Environmental Assessment (Class EA).

Here are MECP preliminary comments on the project. Please consider these comments as you proceed through the Class EA process. The comments are grouped under these headings:

- Class EA process,
- MECP technical review issues,
- Aboriginal consultation.

Class Environmental Assessment Process

Notification

- Please provide copies of all notices by email (pdf) to ClassEAnotices@ontario.ca and to my regional email contact below. Notices of Completion must be sent to the ministry in accordance with section 15.1 (1) of the amended *Environmental Assessment Act*.
- Please provide scanned copies of the notices as they appear in newspapers and confirm the dates of publication.

As the Regional EA Coordinator for this project, I will be responsible for circulating project notices. I am a mandatory contact for all Notices issued for the project.

My preferred methods of correspondence are email for notices, It is helpful to provide scanned copies of the notices as they appear in newspapers, and confirm the dates of publication.

My contact information is:

Jon Orpana, Environmental Assessment Coordinator
Ministry of the Environment, Conservation and Parks
1259 Gardiners Road
P.O. Box 22032
Kingston, Ontario
K7M 8S5
email: jon.orpana@ontario.ca

Consultation with Review Agencies

In addition to public consultation, consultation with review agencies is an important component of the Class EA process. Please ensure that you contact review agencies directly to determine their interest in the project at the Notice of Commencement stage.

The MECP Regional office is a mandatory contact for all notices (please refer to contact information above). In addition, other ministries and agencies that may have an interest in the project are listed in section A.3.6 and Appendices 3 and 7. The provincial ministries that are most often involved in Class EA project review include the Ministry of Municipal Affairs (for example, expansion of settlement boundaries, consistency with Growth Plan), Ministry of Natural Resources and Forestry (for example, significant wetlands), Ministry of Tourism, Culture and Sport (for example, cultural heritage or archaeological resources), and Ministry of Transportation (projects located on MTO property, projects impacting provincial highways).

The final report should include information on correspondence with review agencies, issues raised by reviewers, and how these issues will be addressed. This could include technical studies or other information, and commitments to obtain specific approvals or permits.

Schedule B Process

Your notice indicates that the you will be following the Schedule B process for the project. In accordance with the Municipal Class EA, Schedule B projects require that a Project File be prepared. The Project File shall be organized in such a way as to clearly demonstrate that the appropriate steps in Phases 1 and 2 have been followed and explain the following:

- background to the project and earlier studies;
- the nature and extent of the problem or opportunity, to explain the source of the concern or issue;
- description/inventory of the environment;
- the alternative solutions considered and the evaluation process followed to select the preferred solution;
- follow-up commitments, including any monitoring necessary; and,
- the public consultation program employed and how concerns raised have been addressed.

The Project File must contain a complete record of all activities associated with the planning of the Project and shall include:

- correspondence;
- copies of notices, letters, bulletins relating to public consultation;
- memoranda to file explaining the proponent's rationale in developing stages of the project; and,
- copies of reports prepared by consultants and others.

The project documentation must be maintained in such a way that it is suitable for easy review by the public at any time.

Notice of Completion

Once the Project File is finalized, the proponent must issue a Notice of Completion providing a minimum 30-day period during which documentation may be reviewed and comment and input can be submitted to the Proponent.

Please ensure that the Notice of Completion advises that outstanding concerns are to be directed to the proponent for a response, and that in the event there are outstanding concerns regarding potential adverse impacts to constitutionally protected Aboriginal

and treaty rights, Part II Order requests on those matters should be addressed in writing to:

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

and

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

Please note the Proponent cannot proceed with the project until at least 30 days after the end of the comment period provided for in the Notice of Completion.

Further, the Proponent may not proceed after this time if:

- a Part II Order request has been submitted to the ministry regarding potential adverse impacts to constitutionally protected Aboriginal and treaty rights, or
- the Director has issued a Notice of Proposed order regarding the project.

The public has the ability to request a higher level of assessment on a project if they are concerned about potential adverse impacts to constitutionally protected Aboriginal and treaty rights. In addition, the Minister may issue an order on his or her own initiative within a specified time period. The Director will issue a Notice of Proposed Order to the [Proponent] if the Minister is considering an order for the project within 30 days after the conclusion of the comment period on the Notice of Completion. At this time, the Director may request additional information from the proponent.

Once the requested information has been received, the Minister will have 30 days within which to make a decision or impose conditions on your project.

MECP Technical Review

This Ministry's interest in road projects includes:

- impacts to groundwater and surface water quality and quantity due to construction (for example, water crossings, dewatering, control of erosion and sedimentation, spill control),
- potential for encountering landfill sites, contaminated soil, contaminated sediment or groundwater,
- management of excess materials, waste, contaminated soil and groundwater,
- noise and air quality impacts to nearby residents or planned subdivisions,

- Species at Risk,
- stormwater management.

These environmental issues, and appropriate mitigation measures, should be addressed during the Class EA process.

We recommend that you contact this office as soon as possible during the environmental assessment process if you become aware of:

- contaminated sites in the study area or influence area of the project,
- a source water protection vulnerable area in the vicinity of the project, or
- issues that are contentious to the general public, aboriginal communities or review agencies.

The following comments are standard MECP comments and may not all apply to the proposed project.

Water Resources

We recommend that the proponent consider development of Dewatering and Excess Water Management Plans for collection, assessment, classification, conveyance, treatment and discharge of ground, surface and storm water encountered within the study area during construction.

We recommend that the proponent develop an Excavation and Sediment Control Plan and a Spill Prevention and Contingency Plan for the project. Spills should be reported to the Spills Action Centre at 1-800-268-6060.

If construction involves taking, dewatering, storage or diversion of water in excess of 50,000 litres per day, the activity may be required to be registered on the Environmental Activity and Sector Registry (EASR) or may require a Permit To Take Water. The process to be used depends on the source of the water, the quantity of water taken, and the type of construction activity. EASR requirements for water takings for road construction and construction dewatering are prescribed in Ontario Regulation 63/16 under the Environmental Protection Act. The Permit To Take Water requirements are prescribed in Section 34, Ontario Water Resources Act.

Guidance on nearshore construction and dredging may be obtained from the following MECP guidelines:

- *B-6 Guidelines for Evaluating Construction Activities Impacting on Water Resources,*
- *Evaluating Construction Activities Impacting on Water Resources, Part III A, Part III B, and Part III C (dredging handbook) and accompanying Appendix A Provincial Sediment Quality Guidelines,*

- *Guidelines for Identifying, Assessing and Managing Contaminated Sediments in Ontario: An Integrated Approach.*

Stormwater management should be in accordance with the MECP *Stormwater Management Planning and Design Manual*. Stormwater infrastructure requires approval under section 53 of the Ontario Water Resources Act.

MECP has concerns with the use of a cured-in-place process (CIPP) for culverts. Styrene released into the environment can result in harm to fish.

Source Protection

Proponents undertaking a Municipal Class EA project must identify early in the process whether a project is occurring within a source water protection vulnerable area. This must be clearly documented in a Master Plan, Project File report or Environmental Study Report. If the project is occurring in a vulnerable area, then there may be policies in the local Source Protection Plan (SPP) that need to be addressed (requirements under the Clean Water Act). The proponent should contact and consult with the appropriate Conservation Authority/Source Protection Authority (CA/SPA) to discuss potential considerations and policies in the SPP that apply to the project.

Please include a section in the report on Source Water Protection. Specifically, it should discuss whether or not the project is located in a vulnerable area or changes or creates new vulnerable areas, and provide applicable details about the area. If located in a vulnerable area, proponents should document whether any project activities are a prescribed drinking water threat and thus pose a risk to drinking water (please consult with the appropriate CA/SPA). Where an activity poses a risk to drinking water, the proponent must document and discuss in the report how the project adheres to or has regard to applicable policies in the local SPP. If creating or changing a vulnerable area, proponents should document whether any existing uses or activities may potentially be affected by the implementation of source protection policies. This section should then be used to inform and should be reflected in other sections of the report, such as the identification of net positive/ negative effects of alternatives, mitigation measures, evaluation of alternatives etc. Even if the project activities in a vulnerable area are deemed to not to be a drinking water risk, there may be other policies that apply, so consultation with the local CA/SPA is important.

Species at Risk

The Ministry of the Environment, Conservation and Parks has now assumed responsibility of Ontario's Species at Risk program. For any questions considering

species at risk and subsequent permit requirements, please contact SAROntario@ontario.ca

Contaminated Sites and Waste Management

The proponent should consider the potential that the project may be constructed in an area of contamination. If an area of contamination is present, the EA should determine the appropriate management of contaminated soil, sediment and groundwater as well as consider health and safety measures.

Waste, including contaminated soil, must be managed in accordance with MECP standards. The *Environmental Protection Act* (EPA) and Regulation 347 require waste to be classified and disposed of appropriately. When determining the waste category, the proponent must ensure compliance with Schedule 4 of Regulation 347.

Where the removal and movement of soils is required for the project, we recommend that you refer to the MECP document *Management of Excess Soil – A Guide for Best Management Practices*.

We recommend that the proponent consider development of an Excess Materials Management Plan for identification, assessment, excavation, conveyance, treatment, staging, grading and/or off-site disposal/re-use of soils and aggregates generated within the study area during construction.

The Waste Disposal Site Inventory, dated June 1991, may be helpful in identifying the locations of open and closed waste disposal sites in Ontario.

Noise and Vibration

The final report should include commitments to comply with municipal noise bylaws, implement general noise control measures, investigate noise complaints, and comply with MECP sound level criteria for construction equipment.

Where there is a potential for permanent noise increases from projects, a noise study should be completed as part of the Class EA process to assess impacts on residences, proposed residential development, or other sensitive land uses. This noise assessment should be available to the public during the Class EA process.

If blasting is required, pre-blast surveys are recommended, and the proponent should establish protocols for notifying residents and addressing blasting complaints. Noise, dust and flyrock should be controlled.

Consultation with First Nation and Métis Communities

The Crown has a legal duty to consult Aboriginal communities when it has knowledge, real or constructive, of the existence or potential existence of an Aboriginal or treaty right and contemplates conduct that may adversely impact that right. Before you can proceed with this project, the Crown must ensure that its duty to consult has been fulfilled, where such a duty is triggered. Although the duty to consult with Aboriginal peoples is a duty of the Crown, the Crown may delegate procedural aspects of this duty to project proponents while retaining oversight of the process.

Your proposed project may have the potential to affect Aboriginal or treaty rights protected under Section 35 of Canada's *Constitution Act* 1982. Where the Crown's duty to consult is triggered in relation to your proposed project, **the MECP is delegating the procedural aspects of rights-based consultation to you through this letter.** The Crown intends to rely on the delegated consultation process in discharging its duty to consult and maintains the right to participate in the consultation process as it sees fit.

Based on information you have provided to date and the Crown's preliminary assessment you are required to consult with the following Aboriginal communities who have been identified as potentially affected by your proposed project:

- Algonquins of Ontario

The following Williams Treaties Communities (with a copy to the Williams Treaties Coordinator Karry Sandy-Mackenzie):

- Hiawatha First Nation
- Curve Lake First Nation
- Alderville First Nation
- Mississauga's of Scugog Island First Nation

Steps that you may need to take in relation to Aboriginal consultation for your proposed project are outlined in the "Code of Practice for Consultation in Ontario's Environmental Assessment Process" which can be found at the following link:

<https://www.ontario.ca/document/consultation-ontarios-environmental-assessment-process>

Additional information related to Ontario's Environmental Assessment Act is available online at: www.ontario.ca/environmentalassessments

You must contact the Director of Environmental Assessment Branch under the following circumstances subsequent to initial discussions with the communities identified by MECP:

- Aboriginal or treaty rights impacts are identified to you by the communities

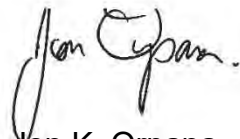
- You have reason to believe that your proposed project may adversely affect an Aboriginal or treaty right
- Consultation with Indigenous communities or other stakeholders has reached an impasse
- A Part II Order request is expected on the basis of impacts to Aboriginal or treaty rights

The ministry will then assess the extent of any Crown duty to consult for the circumstances and will consider whether additional steps should be taken, including what role you will be asked to play should additional steps and activities be required.

Thank you for your notification regarding this project and your ongoing care of the environment.

Should you or any members of your project team have any questions regarding the material above, please contact me at (613) 613 548 6918.

Regards,



Jon K. Orpana
Environmental Planner & Environmental Assessment Coordinator
Ministry of the Environment, Conservation and Parks
Kingston Regional Office
PO Box 22032, 1259 Gardiners Road
Kingston, Ontario
K7M 8S5

Phone: (613) 548-6918
Fax: (613) 548-6908
Email: jon.orpana@ontario.ca

cc: Dan Hagan, P. Geo. Senior Project Manager/Geologist, Greenview
Environmental Management Limited
solutions@greenview-environmental.ca

Charlie Primeau, Supervisor, MECP Ottawa District Office

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, August 13, 2020 2:04 PM
To: dmowat@alderville.ca; js smoke@alderville.ca
Cc: Solutions - Greenview; Allison Holtzhauer (TGM)
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - FLR - Notice of Study Commencement (FN) - Letter (Alderville FN) - FINAL - Aug13-20.pdf; 102.20.025 - FLR - Notice of Study Commencement (FN) - Notice - FINAL - Aug13-20.pdf; 102.20.025 - FLR - Notice of Study Commencement (FN) - Project Comment Form - FINAL - Aug13-20.pdf

Dear Chief Mowat, Alderville First Nation –

On behalf of the Township of Greater Madawaska (Township), Greenview Environmental Management Limited (Greenview) is pleased to contact you today with respect to the *Notice of Study Commencement* (Notice) for the Township's Reconstruction of Ferguson Lake Road Project. This Notice of Study Commencement (Notice) has been provided to you as part of the project's consultation program, and in accordance with contact information provided by the Crown and the Ontario Ministry of the Environment, Conservation, and Parks (MECP) regarding the Township's duty to consult with First Nation and Métis Communities, dated August 12, 2020. This Notice and related documents have been provided as formal notification of the project and to provide an opportunity for you to comment.

Additionally, a hardcopy of this electronic submission will be sent to your office for your file.

We encourage all stakeholders to fill out and submit to us a copy of the *Project Comment Form* (attached) to assist us in this project. We look forward working with you on this very important infrastructure improvement project for the Township of Greater Madawaska.

Thank you and have a great day -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, August 13, 2020 2:08 PM
To: algonquins@tanakiwin.com
Cc: Solutions - Greenview; Allison Holtzhauer (TGM)
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - FLR - Notice of Study Commencement (FN) - Letter (Algonquins of Ontario) - FINAL - Aug13-20.pdf; 102.20.025 - FLR - Notice of Study Commencement (FN) - Notice - FINAL - Aug13-20.pdf; 102.20.025 - FLR - Notice of Study Commencement (FN) - Project Comment Form - FINAL - Aug13-20.pdf

Dear Algonquins of Ontario –

On behalf of the Township of Greater Madawaska (Township), Greenview Environmental Management Limited (Greenview) is pleased to contact you today with respect to the *Notice of Study Commencement* (Notice) for the Township's Reconstruction of Ferguson Lake Road Project. This Notice of Study Commencement (Notice) has been provided to you as part of the project's consultation program, and in accordance with contact information provided by the Crown and the Ontario Ministry of the Environment, Conservation, and Parks (MECP) regarding the Township's duty to consult with First Nation and Métis Communities, dated August 12, 2020. This Notice and related documents have been provided as formal notification of the project and to provide an opportunity for you to comment.

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Thank you and have a great day -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, August 13, 2020 2:11 PM
To: bafn@nrtco.net
Cc: Solutions - Greenview; Allison Holtzhauer (TGM)
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - FLR - Notice of Study Commencement (FN) - Letter (Bonnechere Algonquin FN) - FINAL - Aug13-20.pdf; 102.20.025 - FLR - Notice of Study Commencement (FN) - Notice - FINAL - Aug13-20.pdf; 102.20.025 - FLR - Notice of Study Commencement (FN) - Project Comment Form - FINAL - Aug13-20.pdf

Dear Chief Zohr, Bonnechere Algonquin First Nation:

On behalf of the Township of Greater Madawaska (Township), Greenview Environmental Management Limited (Greenview) is pleased to contact you today with respect to the *Notice of Study Commencement* (Notice) for the Township's Reconstruction of Ferguson Lake Road Project. This Notice of Study Commencement (Notice) has been provided to you as part of the project's consultation program, and in accordance with contact information provided by the Crown and the Ontario Ministry of the Environment, Conservation, and Parks (MECP) regarding the Township's duty to consult with First Nation and Métis Communities, dated August 12, 2020. This Notice and related documents have been provided as formal notification of the project and to provide an opportunity for you to comment.

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Thank you and have a great day -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, August 13, 2020 2:15 PM
To: EmilyW@curvelake.ca; GeneralManager@curvelake.ca
Cc: Solutions - Greenview; Allison Holtzhauer (TGM)
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - FLR - Notice of Study Commencement (FN) - Letter (Curve Lake FN) - FINAL - Aug13-20.pdf; 102.20.025 - FLR - Notice of Study Commencement (FN) - Notice - FINAL - Aug13-20.pdf; 102.20.025 - FLR - Notice of Study Commencement (FN) - Project Comment Form - FINAL - Aug13-20.pdf

Dear Chief Whetung, Curve Lake First Nation:

On behalf of the Township of Greater Madawaska (Township), Greenview Environmental Management Limited (Greenview) is pleased to contact you today with respect to the *Notice of Study Commencement* (Notice) for the Township's Reconstruction of Ferguson Lake Road Project. This Notice of Study Commencement (Notice) has been provided to you as part of the project's consultation program, and in accordance with contact information provided by the Crown and the Ontario Ministry of the Environment, Conservation, and Parks (MECP) regarding the Township's duty to consult with First Nation and Métis Communities, dated August 12, 2020. This Notice and related documents have been provided as formal notification of the project and to provide an opportunity for you to comment.

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Thank you and have a great day -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, August 13, 2020 2:19 PM
To: chiefcarr@hiawathafn.ca; info@hiawathafn.ca
Cc: Solutions - Greenview; Allison Holtzhauer (TGM)
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - FLR - Notice of Study Commencement (FN) - Letter (Hiawatha FN) - FINAL - Aug13-20.pdf; 102.20.025 - FLR - Notice of Study Commencement (FN) - Notice - FINAL - Aug13-20.pdf; 102.20.025 - FLR - Notice of Study Commencement (FN) - Project Comment Form - FINAL - Aug13-20.pdf

Dear Chief Carr, Hiawatha First Nation:

On behalf of the Township of Greater Madawaska (Township), Greenview Environmental Management Limited (Greenview) is pleased to contact you today with respect to the *Notice of Study Commencement* (Notice) for the Township's Reconstruction of Ferguson Lake Road Project. This Notice of Study Commencement (Notice) has been provided to you as part of the project's consultation program, and in accordance with contact information provided by the Crown and the Ontario Ministry of the Environment, Conservation, and Parks (MECP) regarding the Township's duty to consult with First Nation and Métis Communities, dated August 12, 2020. This Notice and related documents have been provided as formal notification of the project and to provide an opportunity for you to comment.

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Thank you and have a great day -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, August 13, 2020 2:22 PM
To: mno@metisnation.org
Cc: Solutions - Greenview; Allison Holtzhauer (TGM)
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - FLR - Notice of Study Commencement (FN) - Letter (Metis Nation of Ontario) - FINAL - Aug13-20.pdf; 102.20.025 - FLR - Notice of Study Commencement (FN) - Notice - FINAL - Aug13-20.pdf; 102.20.025 - FLR - Notice of Study Commencement (FN) - Project Comment Form - FINAL - Aug13-20.pdf

Dear Margaret Froh, President – Métis Nation of Ontario:

On behalf of the Township of Greater Madawaska (Township), Greenview Environmental Management Limited (Greenview) is pleased to contact you today with respect to the *Notice of Study Commencement* (Notice) for the Township's Reconstruction of Ferguson Lake Road Project. This Notice of Study Commencement (Notice) has been provided to you as part of the project's consultation program, and in accordance with contact information provided by the Crown and the Ontario Ministry of the Environment, Conservation, and Parks (MECP) regarding the Township's duty to consult with First Nation and Métis Communities, dated August 12, 2020. This Notice and related documents have been provided as formal notification of the project and to provide an opportunity for you to comment.

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Thank you and have a great day -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, August 13, 2020 2:27 PM
To: info@scugogfirstnation.com
Cc: Solutions - Greenview; Allison Holtzhauer (TGM)
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - FLR - Notice of Study Commencement (FN) - Letter (Mississaugas of Scugog Island FN) - FINAL - Aug13-20.pdf; 102.20.025 - FLR - Notice of Study Commencement (FN) - Notice - FINAL - Aug13-20.pdf; 102.20.025 - FLR - Notice of Study Commencement (FN) - Project Comment Form - FINAL - Aug13-20.pdf

Dear Chief LaRocca, Mississaugas of Scugog Island First Nation:

On behalf of the Township of Greater Madawaska (Township), Greenview Environmental Management Limited (Greenview) is pleased to contact you today with respect to the *Notice of Study Commencement* (Notice) for the Township's Reconstruction of Ferguson Lake Road Project. This Notice of Study Commencement (Notice) has been provided to you as part of the project's consultation program, and in accordance with contact information provided by the Crown and the Ontario Ministry of the Environment, Conservation, and Parks (MECP) regarding the Township's duty to consult with First Nation and Métis Communities, dated August 12, 2020. This Notice and related documents have been provided as formal notification of the project and to provide an opportunity for you to comment.

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Thank you and have a great day -

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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, August 13, 2020 3:48 PM
To: k.a.sandy-mckenzie@rogers.com
Cc: Solutions - Greenview; Allison Holtzhauer (TGM)
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)
Attachments: 102.20.025 - FLR - Notice of Study Commencement (FN) - Letter (Williams Treaties FN) - FINAL - Aug13-20.pdf; 102.20.025 - FLR - Notice of Study Commencement (FN) - Notice - FINAL - Aug13-20.pdf; 102.20.025 - FLR - Notice of Study Commencement (FN) - Project Comment Form - FINAL - Aug13-20.pdf

Dear Karry Sandy-McKenzie, Williams Treaties First Nation:

On behalf of the Township of Greater Madawaska (Township), Greenview Environmental Management Limited (Greenview) is pleased to contact you today with respect to the *Notice of Study Commencement* (Notice) for the Township's Reconstruction of Ferguson Lake Road Project. This Notice of Study Commencement (Notice) has been provided to you as part of the project's consultation program, and in accordance with contact information provided by the Crown and the Ontario Ministry of the Environment, Conservation, and Parks (MECP) regarding the Township's duty to consult with First Nation and Métis Communities, dated August 12, 2020. This Notice and related documents have been provided as formal notification of the project and to provide an opportunity for you to comment.

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Thank you and have a great day -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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August 13, 2020

BY REGULAR AND ELECTRONIC MAIL

Chief Dave Mowat
Alderville First Nation
11696 Second Line Road
Roseneath, ON
K0K 2X0
dmowat@alderville.ca

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Chief Mowat:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

The Township is planning to reconstruct Ferguson Lake Road to improve road safety, efficiency, drainage, and active transportation uses. The planned reconstruction includes road realignments in an effort to achieve the above noted improvements. It is the Township's intention to proceed with construction of the project as early as spring 2021.

This *Notice of Study Commencement* (Notice) has been provided to you as part of the project's consultation program, and in accordance with contact information provided by the Crown and the Ontario Ministry of the Environment, Conservation, and Parks (MECP) regarding the Township's duty to consult with First Nation and Métis Communities, dated August 12, 2020. This Notice and related documents have been provided as formal notification of the project and to provide an opportunity for you to comment.

Thank you in advance for your consideration of this project. Please provide any comments or feedback on the attached *Project Comment Form* (Form) via email or fax addressed to the undersigned, for review and consideration as the project moves forward. Any pertinent review comments are requested by September 04, 2020, for consideration in the next steps of the study.

If you have any questions regarding this submission, we ask that you review the attached Notice, complete the attached Form, and submit the Form for our review and file. At your convenience, please contact the undersigned at solutions@greenview-environmental.ca with any other project-related questions.

All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

August 13, 2020

BY REGULAR AND ELECTRONIC MAIL

Algonquins of Ontario
3 Riverside Drive
Suite 101
Pembroke, ON
K8A 8R6
algonquins@tanakiwin.com

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Algonquins of Ontario:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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Thank you in advance for your consideration of this project. Please provide any comments or feedback on the attached *Project Comment Form* (Form) via email or fax addressed to the undersigned, for review and consideration as the project moves forward. Any pertinent review comments are requested by September 04, 2020, for consideration in the next steps of the study.

If you have any questions regarding this submission, we ask that you review the attached Notice, complete the attached Form, and submit the Form for our review and file. At your convenience, please contact the undersigned at solutions@greenview-environmental.ca with any other project-related questions.

All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

August 13, 2020

BY REGULAR AND ELECTRONIC MAIL

Chief Richard Zohr
Bonnechere Algonquin First Nation
57 Bonnechere Street South
Renfrew, ON
K7V 1Z2
bafn@nrtco.net

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Chief Zohr:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

August 13, 2020

BY REGULAR AND ELECTRONIC MAIL

Chief Emily Whetung
Curve Lake First Nation
22 Winookeedaa Road
Curve Lake, ON
K0L 1R0
EmilyW@curvelake.ca

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Chief Whetung:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

August 13, 2020

BY REGULAR AND ELECTRONIC MAIL

Chief Laurie Carr
Hiawatha First Nation
123 Paudash Street
Hiawatha, ON
K9J 0E6
chiefcarr@hiawathafn.ca

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Chief Carr:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

August 13, 2020

BY REGULAR AND ELECTRONIC MAIL

Margaret Froh, President
Métis Nation of Ontario
66 Slater Street
Suite 1100
Ottawa, ON
K1P 5H1
mno@metisnation.org

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Margaret Froh:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

August 13, 2020

BY REGULAR AND ELECTRONIC MAIL

Chief Kelly LaRocca
Mississaugas of Scugog Island First Nation
22521 Island Road
Port Perry, ON
L9L 1B6
info@scugogfirstnation.com

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Chief LaRocca:

Greenview Environmental Management Limited (Greenview) has been retained by the Township of Greater Madawaska (Township) to provide consulting services associated with the proposed reconstruction of Ferguson Lake Road, from Station 2+825 (south of Campground Side Road) to Station 8+520 (Kennelly Mountain Road). The Township has initiated this project as a Municipal Class Environmental Assessment Schedule B Undertaking.

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If you have any questions regarding this submission, we ask that you review the attached Notice, complete the attached Form, and submit the Form for our review and file. At your convenience, please contact the undersigned at solutions@greenview-environmental.ca with any other project-related questions.

All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geo.
Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

August 13, 2020

BY REGULAR AND ELECTRONIC MAIL

Karry Sandy-McKenzie
Williams Treaty First Nation
8 Creswick Court
Barrie, ON
L4M 2J7
k.a.sandy-mckenzie@rogers.com

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Dear Karry Sandy-McKenzie:

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We note for your records that similar submissions were also provided today by email and regular mail to the following First Nation Communities, based on the information provided by the Crown and the MECP:

- Alderville First Nation
- Bonnechere Algonquin First Nation
- Hiawatha First Nation
- Mississaugas of Scugog Island First Nation
- Algonquins of Ontario
- Curve Lake First Nation
- Métis Nation of Ontario

Thank you in advance for your consideration of this project. Please provide any comments or feedback on the attached *Project Comment Form* (Form) via email or fax addressed to the undersigned, for review and consideration as the project moves forward. Any pertinent review comments are requested by September 04, 2020, for consideration in the next steps of the study.

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All respectfully submitted by,

Greenview Environmental Management Limited



Dan Hagan, P.Geol.

Senior Project Manager / Geologist

Attachments

c.c. Allison Holtzhauer, CAO/Clerk-Treasurer, Township of Greater Madawaska

Dan Hagan (Greenview)

From: Marnie Peters <peters.marnie@gmail.com>
Sent: Thursday, August 13, 2020 4:56 PM
To: Dan Hagan (Greenview)
Cc: Allison Holtzhauer (TGM); Tyler Peters (Greenview); Solutions - Greenview
Subject: Re: Redevelopment of Ferguson Lake Rd (102.20.025)
Attachments: Greenview file 102.20.025 Comments from MarniePETERS 2020 08 13.pdf

Hi Dan,

Please find attached my comments, sorry for being late.

Marnie Peters
724 Ferguson Lake Rd, Renfrew, ON K7V 3Z7

Cheers
Marnie
613 433 3270

On Mon, Jul 13, 2020 at 8:37 AM Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca> wrote:

Dear Ms. Peters:

Thank you for your recent response to the *Notice of Study Commencement* for the Township of Greater Madawaska's (Township's) Schedule B Municipal Class Environmental Assessment (MCEA) process, related to the reconstruction of Ferguson Lake Road.

Your input is important and has been documented accordingly for consideration in next steps in the process.

On behalf of the Township, we will keep you informed as the study progresses.

Please continue to submit any additional input to solutions@greenview-environmental.ca. Additionally, if you have not already done so, we ask that you please complete and submit a copy of the *Project Comment Form* (attached) related to the Notice of Study Commencement so that we can include it in the project file.

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

This e-mail message (including attachments, if any) is confidential and may be privileged. Any unauthorized distribution or disclosure is prohibited. Disclosure to anyone other than the intended recipient does not constitute waiver of privilege. If you have received this e-mail in error, please notify us and delete it and any attachments from your computer system and records.

From: Marnie Peters <peters.marnie@gmail.com>

Sent: July 6, 2020 2:51 PM

To: solutions@greenview-environmental.ca; Allison Holtzhauer <aholtzhauer@greatermadawaska.com>

Subject: Redevelopment of Ferguson Lake Rd

Hello,

Just wondering if there is any additional information that you can send to me regarding the redevelopment of Ferguson Lake Rd.

Many thanks

Cheers

Marnie

--

Marnie Peters

--

Marnie Peters

www.marniepeters.com



Project Comment Form

**Re: Notice of Study Commencement
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.20.025**

Please refer to the provided information and Notice of Study Commencement associated with the above-noted project.

Name:

Agency (if applicable):

Address:

Email:

Marnie Peters

724 Ferguson Lake Rd

peters.marnie@gmail.com

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☒ I/We wish to be involved further in the project as noted below:

As a resident living on the road, I can attest to the very poor condition of the road starting @ the 508

There are issues related to blind corner, particularly an older section of the road that are very narrow and very limited, very soft shoulder.

Heavy trucks (logging + gravel) should no longer be permitted to use the road as a through road (unless the road is sufficiently reconstructed to the standard to support their weight).

Please return this completed form by **July 6, 2020** to:

**Mr. Dan Hagan, P.Geo.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057**

I am interested in being contacted directly in regards to this matter.

Sincerely, Marnie Peters

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, August 14, 2020 9:07 AM
To: Marnie Peters
Cc: Allison Holtzhauer (TGM); Tyler Peters (Greenview); Solutions - Greenview
Subject: RE: Redevelopment of Ferguson Lake Rd (102.20.025)
Attachments: Greenview file 102.20.025 Comments from MarniePETERS 2020 08 13.pdf

Good morning, Marnie –

Thank you for your submission. Your comments will be reviewed and considered as part of the road reconstruction project.

We can confirm that issues like addressing sightlines, road lane width, and road shoulders are being considered as part of the road reconstruction planning process.

Have a great Friday -

Sincerely,

Dan Hagan, P.Geol.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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From: Marnie Peters <peters.marnie@gmail.com>
Sent: Thursday, August 13, 2020 3:56 PM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Cc: Allison Holtzhauer (TGM) <aholtzhauer@greatermadawaska.com>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Re: Redevelopment of Ferguson Lake Rd (102.20.025)

Hi Dan,

Please find attached my comments, sorry for being late.

Marnie Peters
724 Ferguson Lake Rd, Renfrew, ON K7V 3Z7

Cheers
Marnie
613 433 3270

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Dear Ms. Peters:

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Your input is important and has been documented accordingly for consideration in next steps in the process.

On behalf of the Township, we will keep you informed as the study progresses.

Please continue to submit any additional input to solutions@greenview-environmental.ca. Additionally, if you have not already done so, we ask that you please complete and submit a copy of the *Project Comment Form* (attached) related to the Notice of Study Commencement so that we can include it in the project file.

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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From: Marnie Peters <peters.marnie@gmail.com>

Sent: July 6, 2020 2:51 PM

To: solutions@greenview-environmental.ca; Allison Holtzhauer <aholtzhauer@greatermadawaska.com>

Subject: Redevelopment of Ferguson Lake Rd

Hello,

Just wondering if there is any additional information that you can send to me regarding the redevelopment of Ferguson Lake Rd.

Many thanks

Cheers

Marnie

--

Marnie Peters

--

Marnie Peters

www.marniepeters.com



Dan Hagan (Greenview)

From: David Davison <davison@ainleygroup.com>
Sent: Tuesday, August 18, 2020 2:19 PM
To: 'Species at Risk (MECP)'; carolyn.hann@ontario.ca
Cc: 'Scott Reynolds'; Dan Hagan (Greenview); Tyler Peters (Greenview)
Subject: 20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints
Attachments: 20501-1 - Ferguson Lake Rd. - Preliminary Env. Constraints - Updated.pdf

Hi Carolyn,

As you are aware from some of our previous correspondence, Ainley Group is completing a natural heritage study for proposed upgrades to Ferguson Lake Road in the township of Greater Madawaska, within Renfrew County. These upgrades are proposed to take place along Ferguson Lake Road between Kennelly Mountain Road and 200 m south of Campground Side Road (approximate distance of 5.7 km).

Field surveys were completed by Ainley Group during June and July 2020, with the intention of identifying a list of environmental constraints within the study limits that will be used to assist in the selection of a preferred road alignment alternative. To date we have prepared a preliminary list of constraints, which we have attached for your review. Our intention is to submit the full Natural Heritage Study report to MECP by mid-September of this year.

Please let us know if you have any preliminary feedback or thoughts regarding forthcoming environmental approvals or any questions or concerns with the above or attached.

Regards,

David Davison, B.Sc. (Env)
Environmental Planner



Ainley Graham & Associates Limited
139 Front Street, Unit 100
Belleville, Ontario, K8N 2Y6
Tel: (613) 966-4243 ext. 109
Fax: (613) 966-1168
Cell: (613) 242-0283
davison@ainleygroup.com

CAUTION: The information contained in and/or attached to this transmission is solely for the use of the intended recipient. Any copying, distribution or use by others, without the express written consent of the Ainley Group, is strictly prohibited. The recipient is responsible for confirming the accuracy and completeness of the information with the originator. Please advise the sender if you believe this message has been received by you in error.

From: Species at Risk (MECP) [mailto:SAROntario@ontario.ca]
Sent: July-08-20 10:18 AM
To: David Davison <davison@ainleygroup.com>; Species at Risk (MECP) <SAROntario@ontario.ca>
Cc: 'Scott Reynolds' <reynolds@ainleygroup.com>
Subject: 2020-07-08_20501-1 - Ferguson Lake Road Reconstruction - Request for MECP Data

Hi David,

If you are looking for element occurrence information you will need to get that directly from the Natural Heritage Information Centre. They house the data and so requests need to go directly to them. You can send them an email to the following address: nhicrequests@ontario.ca

I have attached the preliminary screening guide as well. If you have completed a screening please feel free to send in what you have found and MECP can review and provide and additional species occurrences that may be available.

Best,

Carolyn Hann

Management Biologist | Permissions and Compliance Section | Ontario Ministry of Environment, Conservation and Parks | 10-1 Campus Drive, Kemptville, Ontario, K0G 1J0 | PH: 613.355.7312 | Email: carolyn.hann@ontario.ca

From: David Davison <davison@ainleygroup.com>
Sent: July-07-20 10:17 AM
To: Species at Risk (MECP) <SAROntario@ontario.ca>
Cc: 'Scott Reynolds' <reynolds@ainleygroup.com>
Subject: 20501-1 - Ferguson Lake Road Reconstruction - Request for MECP Data

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Good Morning,

Ainley Group is a sub-consultant working on a natural heritage study for upgrades to Ferguson Lake Road in the Township of Greater Madawaska, within Renfrew County. The Township is working through the Municipal Class Environmental Assessment process for upgrades to Ferguson Lake Road between Kennelly Mountain Road and 200 m south of Campground Side Road (approximate distance of 5.7 km). The review of road upgrades includes several different road alignment options which would require varying degrees of construction within the existing adjacent vegetation communities.

MNRF has indicated that Butternut, Panax, and Blanding's Turtle have all been confirmed within these limits. We are requesting element occurrence data for these species, and any other SAR confirmed within the above noted limits. This information will be used to identify constraints to the road reconstruction and will be used in the selection of the preferred road alignment option.

Regards,

David Davison, B.Sc. (Env)
Environmental Planner



Ainley Graham & Associates Limited
139 Front Street, Unit 100
Belleville, Ontario, K8N 2Y6
Tel: (613) 966-4243 ext. 109
Fax: (613) 966-1168
Cell: (613) 242-0283
davison@ainleygroup.com

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Dan Hagan (Greenview)

From: Jodie.Ross@HydroOne.com
Sent: Monday, August 31, 2020 1:21 PM
To: Dan Hagan (Greenview)
Cc: Janette.Sedore@HydroOne.com
Subject: Reconstruction of Ferguson Lake Road Project, Greenview File 102.20.025

Good Afternoon,

I am working on the request you submitted for the reconstruction of Ferguson Lake Rd, Greater Madawaska. I am just wondering if you have any drawings you could send me on the reconstruction of Ferguson Lake Rd. If the route of Ferguson Lake Rd from South of Campground Side Rd to Kennelly Mountain Rd is not changing, if you could provide the change in road grade that would also be beneficial to ensure we have enough clearance over the road etc.

This would help identify any Hydro One Plant that may or may not have to be relocated.

Thank you,

Jodie Ross
ADET
Design Services, CN1
Hydro One Networks Inc.
Office: (613) 646-2949 Ext 3222
Cell: (613) 633-6764
Email: jodie.ross@hydroone.com
SAFETY 24/7
For Family. For Life.

This email and any attached files are privileged and may contain confidential information intended only for the person or persons named above. Any other distribution, reproduction, copying, disclosure, or other dissemination is strictly prohibited. If you have received this email in error, please notify the sender immediately by reply email and delete the transmission received by you. This statement applies to the initial email as well as any and all copies (replies and/or forwards) of the initial email

Dan Hagan (Greenview)

From: David Davison <davison@ainleygroup.com>
Sent: Wednesday, September 23, 2020 11:31 AM
To: 'Species at Risk (MECP)'; carolyn.hann@ontario.ca
Cc: 'Scott Reynolds'; Dan Hagan (Greenview); Tyler Peters (Greenview)
Subject: RE: 20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints

Hi Carolyn,

Just touching base regarding the below email, and wondering if you have had an opportunity to review the preliminary constraints table. We would appreciate any preliminary feedback you might have, including thoughts regarding forthcoming environmental approvals requirements for the project.

Thanks very much,
Dave

David Davison, B.Sc. (Env)
Environmental Planner



Ainley Graham & Associates Limited
139 Front Street, Unit 100
Belleville, Ontario, K8N 2Y6
Tel: (613) 966-4243 ext. 109
Fax: (613) 966-1168
Cell: (613) 242-0283
davison@ainleygroup.com

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From: David Davison [mailto:davison@ainleygroup.com]
Sent: August-18-20 1:19 PM
To: 'Species at Risk (MECP)' <SAROntario@ontario.ca>; 'carolyn.hann@ontario.ca' <carolyn.hann@ontario.ca>
Cc: 'Scott Reynolds' <reynolds@ainleygroup.com>; 'Dan Hagan (Greenview)' <dan.hagan@greenview-environmental.ca>; 'Tyler Peters (Greenview)' <tyler.peters@greenview-environmental.ca>
Subject: 20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints

Hi Carolyn,

As you are aware from some of our previous correspondence, Ainley Group is completing a natural heritage study for proposed upgrades to Ferguson Lake Road in the township of Greater Madawaska, within Renfrew County. These upgrades are proposed to take place along Ferguson Lake Road between Kennelly Mountain Road and 200 m south of Campground Side Road (approximate distance of 5.7 km).

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alternative. To date we have prepared a preliminary list of constraints, which we have attached for your review. Our intention is to submit the full Natural Heritage Study report to MECP by mid-September of this year.

Please let us know if you have any preliminary feedback or thoughts regarding forthcoming environmental approvals or any questions or concerns with the above or attached.

Regards,

David Davison, B.Sc. (Env)
Environmental Planner



Ainley Graham & Associates Limited
139 Front Street, Unit 100
Belleville, Ontario, K8N 2Y6
Tel: (613) 966-4243 ext. 109
Fax: (613) 966-1168
Cell: (613) 242-0283
davison@ainleygroup.com

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From: Species at Risk (MECP) [<mailto:SAROntario@ontario.ca>]
Sent: July-08-20 10:18 AM
To: David Davison <davison@ainleygroup.com>; Species at Risk (MECP) <SAROntario@ontario.ca>
Cc: 'Scott Reynolds' <reynolds@ainleygroup.com>
Subject: 2020-07-08_20501-1 - Ferguson Lake Road Reconstruction - Request for MECP Data

Hi David,

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I have attached the preliminary screening guide as well. If you have completed a screening please feel free to send in what you have found and MECP can review and provide and additional species occurrences that may be available.

Best,

Carolyn Hann
Management Biologist | Permissions and Compliance Section | Ontario Ministry of Environment,
Conservation and Parks | 10-1 Campus Drive, Kemptville, Ontario, K0G 1J0 | PH: 613.355.7312 |
Email: carolyn.hann@ontario.ca

From: David Davison <davison@ainleygroup.com>
Sent: July-07-20 10:17 AM

To: Species at Risk (MECP) <SAROntario@ontario.ca>

Cc: 'Scott Reynolds' <reynolds@ainleygroup.com>

Subject: 20501-1 - Ferguson Lake Road Reconstruction - Request for MECP Data

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MNRF has indicated that Butternut, Panax, and Blanding's Turtle have all been confirmed within these limits. We are requesting element occurrence data for these species, and any other SAR confirmed within the above noted limits. This information will be used to identify constraints to the road reconstruction and will be used in the selection of the preferred road alignment option.

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Dan Hagan (Greenview)

From: David Davison <davison@ainleygroup.com>
Sent: Thursday, September 24, 2020 2:25 PM
To: 'Species at Risk (MECP)'; carolyn.hann@ontario.ca
Cc: 'Scott Reynolds'; Dan Hagan (Greenview); Tyler Peters (Greenview)
Subject: RE: 20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints
Attachments: 20501-1 - Ferguson Lake Road - Regional Location Plan.pdf

Hi Carolyn,

I have attached Figure 1 from our Natural Heritage Study report that outlines the project limits. The report is currently undergoing some internal QC. We anticipate being able to submit this to you in the near future.

Let me know if there is anything else you need.

Thanks,
Dave

David Davison, B.Sc. (Env)
Environmental Planner



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From: Species at Risk (MECP) [mailto:SAROntario@ontario.ca]
Sent: September-24-20 12:35 PM
To: David Davison <davison@ainleygroup.com>
Subject: RE: 20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints

Hi David,

There is mention of a full Natural Heritage Study has that been prepared? Additionally, fo you have a map of the proposed project location.

Thanks,

Carolyn Hann

Management Biologist | Permissions and Compliance Section | Ontario Ministry of Environment, Conservation and Parks | 10-1 Campus Drive, Kemptville, Ontario, K0G 1J0 | PH: 613.355.7312 | Email: carolyn.hann@ontario.ca

From: David Davison <davison@ainleygroup.com>

Sent: August-18-20 1:19 PM

To: Species at Risk (MECP) <SAROntario@ontario.ca>; Hann, Carolyn (MECP) <Carolyn.Hann@ontario.ca>

Cc: 'Scott Reynolds' <reynolds@ainleygroup.com>; 'Dan Hagan (Greenview)' <dan.hagan@greenview-environmental.ca>; 'Tyler Peters (Greenview)' <tyler.peters@greenview-environmental.ca>

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Checked by AVG - www.avg.com

Version: 2016.0.8048 / Virus Database: 4793/15886 - Release Date: 08/14/18

Internal Virus Database is out of date.

Dan Hagan (Greenview)

From: Jodie.Ross@HydroOne.com
Sent: Monday, October 5, 2020 4:26 PM
To: Dan Hagan (Greenview)
Subject: RE: Reconstruction of Ferguson Lake Road Project, Township of Greater Madawaska, Greenview File (102.20.025)

Good Afternoon Dan,

Sorry for the delay in the reply, things have been insanely busy on our end.
Generally, I receive a document with the drawing of the road construction that is going to take place. In that drawing it tells us if the road grade is changing and by how much, if you are widening the road – measurement for that.
If you are adding a paved shoulder or sidewalk – example – proposed 1.8M paved shoulder
That way at least we can measure our neutral to ensure we still have the proper clearances over the roadway.

I believe the majority of our line is off road – but for the poles that are on road allowance and by the road, I need to ensure they will not be compromised with the construction and again I need to ensure we maintain our clearances over the road.

I hope this helps a little bit.

Feel free to contact me should you have further questions.

Thanks,

Jodie Ross
ADET
Design Services, CN1
Hydro One Networks Inc.
Office: (613) 646-2949 Ext 3222
Cell: (613) 633-6764
Email: jodie.ross@hydroone.com
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For Family. For Life.

From: Dan Hagan (Greenview) [mailto:dan.hagan@greenview-environmental.ca]
Sent: Wednesday, September 09, 2020 11:10 AM
To: ROSS Jodie
Cc: SEDORE Janette; Tyler Peters (Greenview); Tyler Casey (Greenview)
Subject: RE: Reconstruction of Ferguson Lake Road Project, Township of Greater Madawaska, Greenview File (102.20.025)

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Good morning, Jodie –

Sorry for not getting back to you sooner – it's been a busy start to the month.

Would you be able to provide us with some additional clarification as to what HONI requires for your review at this time? I will then forward it on to our design team for review and comment. I can confirm that the road reconstruction operations currently planned for Ferguson Lake Road will be following more or less the same route, with some areas of vertical and horizontal realignments that have yet to be clarified by our design team.

Any additional information that HONI would like at this stage of the review process would be beneficial so that we can make sure we are providing you with what you need from the outset.

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

<https://ddei3-0-ctp.trendmicro.com:443/wis/clicktime/v1/query?url=www.greenview%2denvironmental.ca&umid=7A8BEE9A-AEE2-D905-8B4E-A0BC416C848B&auth=2d642bc0e91c4252d9fd41a45fae119e296f143e-cff0683d38d5d444be1c7a8fbd4c076a21e66cf7>

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From: Jodie.Ross@HydroOne.com <Jodie.Ross@HydroOne.com>

Sent: Monday, August 31, 2020 12:21 PM

To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>

Cc: Janette.Sedore@HydroOne.com

Subject: Reconstruction of Ferguson Lake Road Project, Greenview File 102.20.025

Good Afternoon,

I am working on the request you submitted for the reconstruction of Ferguson Lake Rd, Greater Madawaska.

I am just wondering if you have any drawings you could send me on the reconstruction of Ferguson Lake Rd. If the route of Ferguson Lake Rd from South of Campground Side Rd to Kennelly Mountain Rd is not changing, if you could provide the change in road grade that would also be beneficial to ensure we have enough clearance over the road etc.

This would help identify any Hydro One Plant that may or may not have to be relocated.

Thank you,

Jodie Ross

ADET

Design Services, CN1

Hydro One Networks Inc.

Office: (613) 646-2949 Ext 3222

Cell: (613) 633-6764

Email: jodie.ross@hydroone.com

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Dan Hagan (Greenview)

From: Janette.Sedore@HydroOne.com
Sent: Thursday, October 15, 2020 2:58 PM
To: Dan Hagan (Greenview); Jodie.Ross@HydroOne.com
Cc: Tyler Peters (Greenview); Tyler Casey (Greenview); Janette.Sedore@HydroOne.com
Subject: RE: Reconstruction of Ferguson Lake Road Project, Township of Greater Madawaska, Greenview File (102.20.025)
Attachments: Ferguson Lake Rd Reconstruction.docx

Good afternoon Dan,

See attached letter from technician.

Thank you!

Jan Sedore

Lines Customer Support Clerk

Perth FBC

Distribution Lines Work Management

Tel: 1-888-332-2249 Ext. 3236

Email: janette.sedore@hydroone.com



PURPOSE-LED | **VALUES-DRIVEN** | **SAFETY COMES FIRST** | **STAND FOR PEOPLE**
| **EMPOWERED TO ACT** | **OPTIMISM CHARGES US** | **WIN AS ONE**

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<https://ddei3-0-ctp.trendmicro.com:443/wis/clicktime/v1/query?url=www.greenview%2denvironmental.ca&umid=7A8BEE9A-AEE2-D905-8B4E-A0BC416C848B&auth=2d642bc0e91c4252d9fd41a45fae119e296f143e-cff0683d38d5d444be1c7a8fbd4c076a21e66cf7>

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Thank you,

Jodie Ross

ADET

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Ferguson Lake Rd Reconstruction

1. **Primary Owner** – Hydro One
2. **Type of Plant** – Single Phase Overhead – Voltage 7.2kV
3. **Approximate Location** – We have overhead plant on the South side of Ferguson Lake Rd at the intersection of Ferguson Lake Rd and Kelly Rd. We also have plant on the North side of Kelly's Rd

The overhead plant then crosses from the North side of Ferguson Lake Rd to the South side of the road

The overhead plant then goes off road at 1120A-B Ferguson Lake Rd (Ferguson Lake Cabins) and comes back out to the South side of the road at pole barcode CHABWB for 2 spans and then jumps back across to the North side of Ferguson Lake Rd

Once at 902 Ferguson Lake Rd, the overhead line goes back off road and comes back out to the South side of the road at 714 Ferguson Lake Rd

The overhead line then goes off road at 660 Ferguson Lake Rd to Campground Side Rd

We have underground infrastructure throughout Ferguson Lake Rd

- 1356 Ferguson Lake Rd
- 902 Ferguson Lake Rd
- 714 Ferguson Lake Rd
- 724 Ferguson Lake Rd
- 690 Ferguson Lake Rd
- 660 Ferguson Lake Rd

It is highly recommended that you obtain locates for the design to get the exact location and direction of all underground infrastructure

No objections to the proposed scope of work – PROVIDED THAT THE FOLLOWING CONDITIONS ARE MET:

- All underground locates are obtained prior to any excavation and hand dig within 1.0 m of any buried plant.
 - Any costs for isolation, relocation and or change will be charged to the requesting party.
 - No excavation within 10 feet of any poles and/or anchors.
 - All workers and equipment must stay within our Limits of Approach for all overhead primary voltage lines.
 - *AS PER "Limits of Approach" provided by Ontario's Occupational Health and Safety Act (OH&S Act), General Construction (O. Reg. 213/91) Section 186.**
 - Please call Ontario One Call, 1-800-400-2255 for Hydro One locates.
4. **Awareness of Other Utilities** – Joint Use with Bell
 5. **Personnel Assigned to Project** – Jodie Ross

Dan Hagan (Greenview)

From: Scott Reynolds <reynolds@ainleygroup.com>
Sent: Monday, November 9, 2020 12:43 PM
To: reynolds@ainleygroup.com
Subject: FW: 2020-09-28_20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints

Scott Reynolds, B.Sc.(Env), EP
Senior Environmental Planner



Ainley Graham & Associates Limited
139 Front Street, Unit 100
Belleville, Ontario, K8N 2Y6
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reynolds@ainleygroup.com

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From: Species at Risk (MECP) [mailto:SAROntario@ontario.ca]
Sent: September-28-20 3:04 PM
To: David Davison <davison@ainleygroup.com>
Subject: 2020-09-28_20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints

Hi David,

In addition the species you have listed in the area of the project I have the additional following species:

- Barn Swallow
- Eastern Meadowlark
- SAR Bats (Northern Myotis and Eastern Small-footed Myotis)

There is also potential for:

- Little Brown Myotis
- Tri-colored Bat

Please note it remains the clients responsibility to:

- Carry out preliminary screening for their project,
- Obtain the best available information for all applicable information sources,
- Conduct necessary field studies or inventories to identify and confirm the presence of absence of species at risk or their habitat,
- Consider any potential impacts to species at risk that a proposed activity might cause, and
- Comply with the Endangered Species Act (ESA).

Additionally, while this data represents MECP's best current available information, it is important to note that a lack of information for a site does not mean that species at risk or their habitat are not present. There are many areas where the Government of Ontario does not currently have information, especially in more remote parts of the province. On-site assessments can better verify site conditions, identify and confirm presence of species at risk and/or their habitats. It is the responsibility of the proponent to ensure that species at risk are not killed, harmed, or harassed, and that their habitat is not damaged or destroyed through the activities carried out on the site.

As for the mitigation you have proposed without knowing more about the exact project it is difficult to determine if there are any additional mitigation or avoidance requirements that can be applied or if any contraventions to section 9 or 10 of the Endangered Species Act will occur. More details would be required about the project such as exact location, footprint (road right away, expanding lanes), equipment, description of activities, etc.

In general, if there will be impacts to individuals species at risk or their habitat an approval under the Endangered Species Act may be required.

Based on the table it appears that surveys have been completed can you share details of the surveys such as survey locations, date, time, conditions, and results?

For Butternut up to 10 category 2 trees can be registered under O.Reg. 242/08 however if Category 3 trees will be removed (killed) or harmed and habitat will be damaged (category 1 habitat: 0-25 m around the tree, category 2 habitat is 25-50 m) around the tree you will need to apply for an authorization under the Endangered Species Act. I recommend that you apply as soon as possible through SAROntario@ontario.ca as this process can take time.

For SAR Bats, based on imagery of the landscape, if vegetation removal can occur outside of the active season (April 1 to September 30) likely an authorization for this species would not be required however this can be confirmed if additional information is provided. If vegetation removal cannot occur outside of this timeframe you should contact SAROntario@ontario.ca to determine next steps.

More information would be required for grassland birds, SAR turtles , Eastern Whip-poor-will and American Ginseng to determine if there are impacts to the species or habitat requiring authorization or to determine if proposed mitigation/avoidance will assist in mitigating all impacts.

Please let me know if you would like to chat further or if you can provide additional information about the project I would be happy to review.

Best,

Carolyn Hann

Management Biologist | Permissions and Compliance Section | Ontario Ministry of Environment, Conservation and Parks | 10-1 Campus Drive, Kemptville, Ontario, K0G 1J0 | PH: 613.355.7312 | Email: carolyn.hann@ontario.ca

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To: Species at Risk (MECP) <SAROntario@ontario.ca>; Hann, Carolyn (MECP) <Carolyn.Hann@ontario.ca>

Cc: 'Scott Reynolds' <reynolds@ainleygroup.com>; 'Dan Hagan (Greenview)' <dan.hagan@greenview-environmental.ca>; 'Tyler Peters (Greenview)' <tyler.peters@greenview-environmental.ca>

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Sent: July-08-20 10:18 AM

To: David Davison <davison@ainleygroup.com>; Species at Risk (MECP) <SAROntario@ontario.ca>

Cc: 'Scott Reynolds' <reynolds@ainleygroup.com>

Subject: 2020-07-08_20501-1 - Ferguson Lake Road Reconstruction - Request for MECP Data

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Environmental Planner



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Dan Hagan (Greenview)

From: Scott Reynolds <reynolds@ainleygroup.com>
Sent: Sunday, January 3, 2021 12:03 PM
To: Tyler Peters (Greenview); Dan Hagan (Greenview)
Cc: davison@ainleygroup.com
Subject: FW: 20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints
Attachments: RE: 20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints

Hi Tyler,

Happy New Year! I hope you had a great Christmas and a nice break.

Just forwarding the below from MECP to keep you in the loop. The initial file transfer was not downloaded in time by MECP, but was resent on Dec. 24, 2020, and received confirmation of receipt of the files by Carolyn per the attached.

I will provide any updates as I receive them from Carolyn.

Thanks,
Scott

Scott Reynolds, B.Sc.(Env), EP
Senior Environmental Planner



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From: Hann, Carolyn (MECP) [mailto:Carolyn.Hann@ontario.ca]
Sent: December-23-20 4:27 PM
To: Scott Reynolds
Subject: RE: 20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints

Hi Scott,

Thank you for sending this additional information. Unfortunately the WeTransfer you have sent has expired. Are you able to resend? I will likely review this information in the New Year. I will be in the office tomorrow morning if you have time to resend I can download right away otherwise if you are currently on holidays perhaps you can resend upon your return.

In terms of a timeline, generally, once I get to a review in the queue I will email you and let you know and at that time I can provide a better idea of timeline. I will do my best to get comments to you as soon as possible.

Hope you have a great holiday.

Best,

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Merry Christmas!

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Cc: 'Scott Reynolds' <reynolds@ainleygroup.com>
Subject: 2020-07-08_20501-1 - Ferguson Lake Road Reconstruction - Request for MECP Data

Hi David,

If you are looking for element occurrence information you will need to get that directly from the Natural Heritage Information Centre. They house the data and so requests need to go directly to them. You can send them an email to the following address: nhicrequests@ontario.ca

I have attached the preliminary screening guide as well. If you have completed a screening please feel free to send in what you have found and MECP can review and provide and additional species occurrences that may be available.

Best,

Carolyn Hann

Management Biologist | Permissions and Compliance Section | Ontario Ministry of Environment, Conservation and Parks | 10-1 Campus Drive, Kemptville, Ontario, K0G 1J0 | PH: 613.355.7312 | Email: carolyn.hann@ontario.ca

From: David Davison <davison@ainleygroup.com>

Sent: July-07-20 10:17 AM

To: Species at Risk (MECP) <SAROntario@ontario.ca>

Cc: 'Scott Reynolds' <reynolds@ainleygroup.com>

Subject: 20501-1 - Ferguson Lake Road Reconstruction - Request for MECP Data

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Good Morning,

Ainley Group is a sub-consultant working on a natural heritage study for upgrades to Ferguson Lake Road in the Township of Greater Madawaska, within Renfrew County. The Township is working through the Municipal Class Environmental Assessment process for upgrades to Ferguson Lake Road between Kennelly Mountain Road and 200 m south of Campground Side Road (approximate distance of 5.7 km). The review of road upgrades includes several different road alignment options which would require varying degrees of construction within the existing adjacent vegetation communities.

MNRF has indicated that Butternut, Panax, and Blanding's Turtle have all been confirmed within these limits. We are requesting element occurrence data for these species, and any other SAR confirmed within the above noted limits. This information will be used to identify constraints to the road reconstruction and will be used in the selection of the preferred road alignment option.

Regards,

David Davison, B.Sc. (Env)
Environmental Planner



Ainley Graham & Associates Limited

139 Front Street, Unit 100
Belleville, Ontario, K8N 2Y6

Tel: (613) 966-4243 ext. 109

Fax: (613) 966-1168

Cell: (613) 242-0283

davison@ainleygroup.com

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Checked by AVG - www.avg.com

Version: 2016.0.8048 / Virus Database: 4793/15886 - Release Date: 08/14/18

Internal Virus Database is out of date.

Dan Hagan (Greenview)

From: Scott Reynolds <reynolds@ainleygroup.com>
Sent: Thursday, January 21, 2021 10:12 AM
To: 'Hann, Carolyn (MECP)'
Cc: Tyler Peters (Greenview); Dan Hagan (Greenview); davison@ainleygroup.com
Subject: RE: 20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints

Thanks for the update Carolyn.

Scott

Scott Reynolds, B.Sc.(Env), EP
Senior Environmental Planner



Ainley Graham & Associates Limited
139 Front Street, Unit 100
Belleville, Ontario, K8N 2Y6
Tel: (613) 966-4243 ext. 105
Fax: (613) 966-1168
Cell: (613) 243-0567
reynolds@ainleygroup.com

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From: Hann, Carolyn (MECP) [mailto:Carolyn.Hann@ontario.ca]
Sent: January-21-21 9:05 AM
To: Scott Reynolds
Subject: RE: 20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints

Hi Scott,

I have three things ahead in the queue. If all goes well I will hopefully get to it next week.

I will generally send out an email once I commence looking at something and can provide a better timeline at the time.

Best,

Carolyn Hann

Management Biologist | Permissions and Compliance Section | Ontario Ministry of Environment, Conservation and Parks | 10-1 Campus Drive, Kemptville, Ontario, K0G 1J0 | PH: 613.355.7312 | Email: carolyn.hann@ontario.ca

From: Scott Reynolds <reynolds@ainleygroup.com>

Sent: January-21-21 8:20 AM

To: Hann, Carolyn (MECP) <Carolyn.Hann@ontario.ca>

Cc: tyler.peters@greenview-environmental.ca; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>;
davison@ainleygroup.com

Subject: FW: 20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi Carolyn,

I hope your week is going well.

I just wanted to check in and see if you have had a chance to review the Ferguson Lake Road documents, and when you might be in a position to provide some feedback.

Thanks,
Scott

Scott Reynolds, B.Sc.(Env), EP
Senior Environmental Planner



Ainley Graham & Associates Limited

139 Front Street, Unit 100

Belleville, Ontario, K8N 2Y6

Tel: (613) 966-4243 ext. 105

Fax: (613) 966-1168

Cell: (613) 243-0567

reynolds@ainleygroup.com

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From: Species at Risk (MECP) [<mailto:SAROntario@ontario.ca>]

Sent: December-24-20 9:34 AM

To: Scott Reynolds

Subject: RE: 20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints

Thanks Scott.

I have downloaded the files.

Merry Christmas!

Carolyn

From: Scott Reynolds <reynolds@ainleygroup.com>

Sent: December-14-20 12:09 PM

To: 'David Davison' <davison@ainleygroup.com>; Species at Risk (MECP) <SAROntario@ontario.ca>; Hann, Carolyn (MECP) <Carolyn.Hann@ontario.ca>

Cc: 'Dan Hagan (Greenview)' <dan.hagan@greenview-environmental.ca>; 'Tyler Peters (Greenview'

<tyler.peters@greenview-environmental.ca>

Subject: RE: 20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Hi Carolyn,

I hope all is well.

I just sent you copies of the Natural Heritage Report and Butternut Health Assessment documentation for the Ferguson Lake Road Reconstruction project via WeTransfer. I sent directly to you via the file transfer system based on the file size, and did not send to the SARontario@ontario.ca email, which hopefully doesn't create any issues.

If there is another submission method you prefer (i.e. hard copy, USB, etc.), please let me know.

Also, if you have a rough estimate of review time and when we may anticipate comments on the report it would be much appreciated.

Thanks,

Scott Reynolds, B.Sc.(Env), EP
Senior Environmental Planner



Ainley Graham & Associates Limited
139 Front Street, Unit 100
Belleville, Ontario, K8N 2Y6
Tel: (613) 966-4243 ext. 105
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From: David Davison [<mailto:davison@ainleygroup.com>]
Sent: September-24-20 1:25 PM
To: 'Species at Risk (MECP)'; carolyn.hann@ontario.ca
Cc: 'Scott Reynolds'; 'Dan Hagan (Greenview)'; 'Tyler Peters (Greenview)'
Subject: RE: 20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints

Hi Carolyn,

I have attached Figure 1 from our Natural Heritage Study report that outlines the project limits. The report is currently undergoing some internal QC. We anticipate being able to submit this to you in the near future.

Let me know if there is anything else you need.

Thanks,
Dave

David Davison, B.Sc. (Env)
Environmental Planner



Ainley Graham & Associates Limited
139 Front Street, Unit 100
Belleville, Ontario, K8N 2Y6
Tel: (613) 966-4243 ext. 109
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From: Species at Risk (MECP) [<mailto:SAROntario@ontario.ca>]
Sent: September-24-20 12:35 PM
To: David Davison <davison@ainleygroup.com>
Subject: RE: 20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints

Hi David,

There is mention of a full Natural Heritage Study has that been prepared? Additionally, fo you have a map of the proposed project location.

Thanks,

Carolyn Hann

Management Biologist | Permissions and Compliance Section | Ontario Ministry of Environment, Conservation and Parks | 10-1 Campus Drive, Kemptville, Ontario, K0G 1J0 | PH: 613.355.7312 | Email: carolyn.hann@ontario.ca

From: David Davison <davison@ainleygroup.com>
Sent: August-18-20 1:19 PM
To: Species at Risk (MECP) <SAROntario@ontario.ca>; Hann, Carolyn (MECP) <Carolyn.Hann@ontario.ca>
Cc: 'Scott Reynolds' <reynolds@ainleygroup.com>; 'Dan Hagan (Greenview)' <dan.hagan@greenview-environmental.ca>; 'Tyler Peters (Greenview)' <tyler.peters@greenview-environmental.ca>
Subject: 20501-1 - Ferguson Lake Road Reconstruction - Preliminary Constraints

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Hi Carolyn,

As you are aware from some of our previous correspondence, Ainley Group is completing a natural heritage study for proposed upgrades to Ferguson Lake Road in the township of Greater Madawaska, within Renfrew County. These upgrades are proposed to take place along Ferguson Lake Road between Kennelly Mountain Road and 200 m south of Campground Side Road (approximate distance of 5.7 km).

Field surveys were completed by Ainley Group during June and July 2020, with the intention of identifying a list of environmental constraints within the study limits that will be used to assist in the selection of a preferred road alignment

alternative. To date we have prepared a preliminary list of constraints, which we have attached for your review. Our intention is to submit the full Natural Heritage Study report to MECP by mid-September of this year.

Please let us know if you have any preliminary feedback or thoughts regarding forthcoming environmental approvals or any questions or concerns with the above or attached.

Regards,

David Davison, B.Sc. (Env)
Environmental Planner



Ainley Graham & Associates Limited
139 Front Street, Unit 100
Belleville, Ontario, K8N 2Y6
Tel: (613) 966-4243 ext. 109
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From: Species at Risk (MECP) [<mailto:SAROntario@ontario.ca>]
Sent: July-08-20 10:18 AM
To: David Davison <davison@ainleygroup.com>; Species at Risk (MECP) <SAROntario@ontario.ca>
Cc: 'Scott Reynolds' <reynolds@ainleygroup.com>
Subject: 2020-07-08_20501-1 - Ferguson Lake Road Reconstruction - Request for MECP Data

Hi David,

If you are looking for element occurrence information you will need to get that directly from the Natural Heritage Information Centre. They house the data and so requests need to go directly to them. You can send them an email to the following address: nhicrequests@ontario.ca

I have attached the preliminary screening guide as well. If you have completed a screening please feel free to send in what you have found and MECP can review and provide and additional species occurrences that may be available.

Best,

Carolyn Hann
Management Biologist | Permissions and Compliance Section | Ontario Ministry of Environment,
Conservation and Parks | 10-1 Campus Drive, Kemptville, Ontario, K0G 1J0 | PH: 613.355.7312 |
Email: carolyn.hann@ontario.ca

From: David Davison <davison@ainleygroup.com>
Sent: July-07-20 10:17 AM

To: Species at Risk (MECP) <SAROntario@ontario.ca>

Cc: 'Scott Reynolds' <reynolds@ainleygroup.com>

Subject: 20501-1 - Ferguson Lake Road Reconstruction - Request for MECP Data

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Good Morning,

Ainley Group is a sub-consultant working on a natural heritage study for upgrades to Ferguson Lake Road in the Township of Greater Madawaska, within Renfrew County. The Township is working through the Municipal Class Environmental Assessment process for upgrades to Ferguson Lake Road between Kennelly Mountain Road and 200 m south of Campground Side Road (approximate distance of 5.7 km). The review of road upgrades includes several different road alignment options which would require varying degrees of construction within the existing adjacent vegetation communities.

MNRF has indicated that Butternut, Panax, and Blanding's Turtle have all been confirmed within these limits. We are requesting element occurrence data for these species, and any other SAR confirmed within the above noted limits. This information will be used to identify constraints to the road reconstruction and will be used in the selection of the preferred road alignment option.

Regards,

David Davison, B.Sc. (Env)
Environmental Planner



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Belleville, Ontario, K8N 2Y6

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Fax: (613) 966-1168

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No virus found in this message.

Checked by AVG - www.avg.com

Version: 2016.0.8048 / Virus Database: 4793/15886 - Release Date: 08/14/18

Internal Virus Database is out of date.

Dan Hagan (Greenview)

From: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Sent: Tuesday, February 2, 2021 1:54 PM
To: Tyler Peters (Greenview)
Cc: Solutions - Greenview; Township of Greater Madawaska; Steve Inwood - Township of Greater Madawaska (sinwood@greatermadawaska.com); Dan Hagan (Greenview); Brett Kidd
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, TGM(102.20.025)

Good afternoon Tyler,

I hope all is well with you and your team as well, thank you for reaching out.

We are currently comparing the cost of sizing options for this culvert prior to continuing detailed design for its replacement. Replacement is planned for the upcoming construction season.

Would you be able to provide plans for the roadway in the area of C058? We want to ensure that our design will adequately accommodate any planned elevation or alignment changes in this location.

Thanks,
Taylor

Taylor Hanrath
Acting Manager of Infrastructure
County of Renfrew
Phone 613-732-4353 x457
Mobile: 613-281-5090

From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: February 2, 2021 12:11 PM
To: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Michael Behm <MEBehm@countyofrenfrew.on.ca>; Township of Greater Madawaska <aholtzhauer@greatermadawaska.com>; Steve Inwood - Township of Greater Madawaska (sinwood@greatermadawaska.com) <sinwood@greatermadawaska.com>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

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Hi Taylor;

I trust this email finds you well.

On behalf of the Township of Greater Madawaska, we're planning out the completion of this project over 2021 and 2022. Primary road reconstruction is currently planned to commence in spring 2022.

Regarding County assets, we're following up on the County's plans and timeline to replace culverts C058 on Constant Creek (STA 6+885).

Could you please provide an update for planning and coordination purposes, thank you.

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Sent: June 24, 2020 1:23 PM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Cc: Lee Perkins <LPerkins@countyofrenfrew.on.ca>; Michael Behm <MEBehm@countyofrenfrew.on.ca>; Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good afternoon Mr. Dan Hagan,

Please see attached Project Comment Form from the County of Renfrew for Reconstruction of Ferguson Lake Road Project.

Please do not hesitate to contact should you have any questions or require further information from the County of Renfrew.

Regards,

Taylor Hanrath
Infrastructure Coordinator

Department of Public Works & Engineering
County of Renfrew
9 International Drive
Pembroke, ON K8A 6W5
Phone 613 732 4353 x457
Fax 613 732 0087
thanrath@countyofrenfrew.on.ca



From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Sent: June 22, 2020 2:54 PM
To: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Sent: Thursday, February 11, 2021 4:05 PM
To: Tyler Peters (Greenview)
Cc: Solutions - Greenview; Township of Greater Madawaska; Steve Inwood - Township of Greater Madawaska (sinwood@greatermadawaska.com); Dan Hagan (Greenview); Brett Kidd
Subject: RE: Notice of Study Commencement - Reconstruction of FLR, TGM, ON (102.20.025)

Hi Tyler,

Sorry for the delay in responding, thank you for providing the preliminary design drawing for the roadway in the area of our culvert.

We are currently designing, but anticipate that a grade raise will be required over the new culvert(s) due to potential size increase and need for minimum 600mm of cover over the culvert. Once detailed design is near complete, we will provide a copy of the drawing to Greenview for review, input, and consideration in your road design.

Regards,

Taylor Hanrath
Acting Manager of Infrastructure
County of Renfrew
Phone 613-732-4353 x457

From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: February 5, 2021 2:57 PM
To: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Township of Greater Madawaska <aholtzhauer@greatermadawaska.com>; Steve Inwood - Township of Greater Madawaska (sinwood@greatermadawaska.com) <sinwood@greatermadawaska.com>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Brett Kidd <BKidd@countyofrenfrew.on.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

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Hi Taylor;

Happy Friday - thanks for the prompt response.

Please find attached a preliminary design drawing for the C058 culvert area.

As you will see, we're trying to match existing H&V conditions. Please review and we can discuss further.

Have a great weekend -

Cheers,

Tyler Peters, P.Eng.

From: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Sent: February 2, 2021 12:54 PM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Township of Greater Madawaska <aholtzhauer@greatermadawaska.com>; Steve Inwood - Township of Greater Madawaska <sinwood@greatermadawaska.com>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Brett Kidd <BKidd@countyofrenfrew.on.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good afternoon Tyler,

I hope all is well with you and your team as well, thank you for reaching out.

We are currently comparing the cost of sizing options for this culvert prior to continuing detailed design for its replacement. Replacement is planned for the upcoming construction season.

Would you be able to provide plans for the roadway in the area of C058? We want to ensure that our design will adequately accommodate any planned elevation or alignment changes in this location.

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Taylor

Taylor Hanrath
Acting Manager of Infrastructure
County of Renfrew
Phone 613-732-4353 x457
Mobile: 613-281-5090

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Sent: February 2, 2021 12:11 PM
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Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Michael Behm <MEBehm@countyofrenfrew.on.ca>; Township of Greater Madawaska <aholtzhauer@greatermadawaska.com>; Steve Inwood - Township of Greater Madawaska <sinwood@greatermadawaska.com>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

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Hi Taylor;

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On behalf of the Township of Greater Madawaska, we're planning out the completion of this project over 2021 and 2022. Primary road reconstruction is currently planned to commence in spring 2022.

Regarding County assets, we're following up on the County's plans and timeline to replace culverts C058 on Constant Creek (STA 6+885).

Could you please provide an update for planning and coordination purposes, thank you.

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Sent: June 24, 2020 1:23 PM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Cc: Lee Perkins <LPerkins@countyofrenfrew.on.ca>; Michael Behm <MEBehm@countyofrenfrew.on.ca>; Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good afternoon Mr. Dan Hagan,

Please see attached Project Comment Form from the County of Renfrew for Reconstruction of Ferguson Lake Road Project.

Please do not hesitate to contact should you have any questions or require further information from the County of Renfrew.

Regards,

Taylor Hanrath
Infrastructure Coordinator

Department of Public Works & Engineering
County of Renfrew
9 International Drive
Pembroke, ON K8A 6W5
Phone 613 732 4353 x457
Fax 613 732 0087
thanrath@countyofrenfrew.on.ca



From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Sent: June 22, 2020 2:54 PM
To: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Tyler Peters (Greenview)
Sent: Friday, February 26, 2021 4:26 PM
To: Taylor Hanrath
Cc: Solutions - Greenview; Township of Greater Madawaska; Steve Inwood - Township of Greater Madawaska (sinwood@greatermadawaska.com); Dan Hagan (Greenview); Brett Kidd
Subject: RE: Notice of Study Commencement - Reconstruction of FLR, TGM, ON (102.20.025)

Hi Taylor,

Thanks for this –

With such an elevation increase, please ensure that the contract extents for the County culvert replacements are carefully considered with conservative lengths of road on each side. The road geometry needs to match our design requirements, geotechnical, etc.

For coordination, we're wrapping up the Class EA in March/April, and are planning to be completing detailed design in April/May.

Look forward to the design information as soon as its available for coordination purposes.

Have a great weekend -

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Sent: February 11, 2021 3:05 PM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Township of Greater Madawaska <aholtzhauer@greatermadawaska.com>; Steve Inwood - Township of Greater Madawaska (sinwood@greatermadawaska.com) <sinwood@greatermadawaska.com>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Brett Kidd <BKidd@countyofrenfrew.on.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Hi Tyler,

Sorry for the delay in responding, thank you for providing the preliminary design drawing for the roadway in the area of our culvert.

We are currently designing, but anticipate that a grade raise will be required over the new culvert(s) due to potential size increase and need for minimum 600mm of cover over the culvert. Once detailed design is near complete, we will provide a copy of the drawing to Greenview for review, input, and consideration in your road design.

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Acting Manager of Infrastructure
County of Renfrew
Phone 613-732-4353 x457

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To: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
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Hi Taylor;

Happy Friday - thanks for the prompt response.

Please find attached a preliminary design drawing for the C058 culvert area.

As you will see, we're trying to match existing H&V conditions. Please review and we can discuss further.

Have a great weekend -

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

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Would you be able to provide plans for the roadway in the area of C058? We want to ensure that our design will adequately accommodate any planned elevation or alignment changes in this location.

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Hi Taylor;

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Regarding County assets, we're following up on the County's plans and timeline to replace culverts C058 on Constant Creek (STA 6+885).

Could you please provide an update for planning and coordination purposes, thank you.

Cheers,

Tyler Peters, P.Eng.

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From: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Sent: June 24, 2020 1:23 PM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Cc: Lee Perkins <LPerkins@countyofrenfrew.on.ca>; Michael Behm <MEBehm@countyofrenfrew.on.ca>; Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good afternoon Mr. Dan Hagan,

Please see attached Project Comment Form from the County of Renfrew for Reconstruction of Ferguson Lake Road Project.

Please do not hesitate to contact should you have any questions or require further information from the County of Renfrew.

Regards,

Taylor Hanrath
Infrastructure Coordinator

Department of Public Works & Engineering
County of Renfrew
9 International Drive
Pembroke, ON K8A 6W5
Phone 613 732 4353 x457
Fax 613 732 0087
thanrath@countyofrenfrew.on.ca



From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>

Sent: June 22, 2020 2:54 PM

To: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>

Cc: Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin
Office Administrator



613.332.0057 x 101
www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Tyler Peters (Greenview)
Sent: Monday, March 1, 2021 10:11 AM
To: Celine Boutin (Greenview)
Subject: FW: 2021-02-03_Ferguson Lake Road Reconstruction Comments

Pls file, thanks,

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Scott Reynolds <reynolds@ainleygroup.com>
Sent: March 1, 2021 9:05 AM
To: carolyn.hann@ontario.ca
Cc: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; davison@ainleygroup.com
Subject: FW: 2021-02-03_Ferguson Lake Road Reconstruction Comments

Hi Carolyn,

Thanks for the feedback on the Ferguson Lake Road project. We have been reviewing our available mapping, and the design team has been assessing the alternatives based on the constraint information provided to date. With that in mind, the preliminary recommended alternative will be the 60 km/hr alignment.

We do not have detailed mapping for Blanding's, Whippoorwill, or grassland SAR birds, but have been putting together what we have and will send to you as soon as it is available.

In terms of approvals, gathering that you will need detail design plans of the recommended alternative. Please confirm, and let me know if you will be in need of any other information such as IGF forms.

Thanks,

Scott Reynolds, B.Sc.(Env), EP
Senior Environmental Planner



Ainley Graham & Associates Limited
139 Front Street, Unit 100
Belleville, Ontario, K8N 2Y6
Tel: (613) 966-4243 ext. 105
Fax: (613) 966-1168
Cell: (613) 243-0567
reynolds@ainleygroup.com

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From: Hann, Carolyn (MECP) [<mailto:Carolyn.Hann@ontario.ca>]
Sent: February-03-21 11:50 AM
To: Scott Reynolds
Subject: 2021-02-03_Ferguson Lake Road Reconstruction Comments

Hi Scott,

I have reviewed the Natural Heritage Study Ferguson Lake Road Reconstruction Township of Madawaska Renfrew County provided on December 14, 2020 and additional mapping information from Feb 3, 2021.

Project Summary: Reconstruction of Ferguson Lake Road from Kennelly Mountain Road to 200 m south of Campground Side Road, within the Township of Greater Madawaska, Renfrew County. There are three alignment options at this time (60/70 kph, 70 kph and 90 kph). The Ministry of the Environment, Conservation and Parks (MECP) understand that at this time the preferred alternative is not confirmed. Please note without knowing the actual footprint and details of the works of the road reconstruction it is difficult to provide guidance with respect to the project and species at risk and their habitat in relation to the *Endangered Species Act, 2007* (ESA). MECP will provide general comments with respect to the difference alternatives identified and can provide additional guidance once the preferred alignment is chosen and there are more details about the footprint and works related to the proposed project.

Based on the information provided MECP has the following guidance with respect to species at risk and the ESA:

1. MECP has occurrence data for all 4 Species at Risk Bats (Eastern Small-footed Myotis, Little Brown Bat, Northern Myotis and Tricolored Bat) in the area of the project location. If tree clearing occurs outside of the bat active season (April 1 to Sept 30) there likely is no requirement for an authorization for this species under the Endangered Species Act, 2007 (ESA) for either of the three alternatives being proposed. The timing window would be extended if there are known swarming or hibernacula sites in the area of the different alignments resulting in the timing window being extended to October 15. If the timing window cannot be respected further discussions are required with MECP and this could result in additional need for identification of habitat through surveys and requirements for an authorization under the ESA.

Noted, thanks. The intent would be to adhere to timing windows to the extent possible.

2. It is noted that 37 Butternut were identified on site of which some are category 2 and 3 trees. If there are impacts to Category 2 trees up to 10 category 2 trees can be registered under O.Reg. 242/08 under section 23.7 ([O. Reg. 242/08: GENERAL \(ontario.ca\)](https://www.ontario.ca/laws/reg/08/08_0242.html)). I did not see any mapping of locations of butternuts in relation to the road alignment options. If there are impacts to Category 3 Butternuts including to the individual or habitat an authorization will be required for this species. Category 1 habitat around a butternut is considered the 0-25 metres radius around the individual and this protects the critical root zone of the tree and has the lowest tolerance to alteration. Category 2 habitat around a butternut is considered to be 25-50 metres radius around the tree and this protects the core area that Butternuts individuals depend on for seed dispersal and seedling establishment and it has a moderate tolerance to alteration. Depending on the road alignment chosen and the locations of the tree and the work occurring near the tree there may be a requirement for an authorization. The 90kph alignment has the most deviations from the current road alignment and depending on the locations of the trees

may result in impacts. The other 2 options may also impact Butternut depending on where work would take place in relation to the trees. Further discussions with MECP are recommended to determine if an authorization under the ESA would be required for either of road alignment options.

Noted. The locations of the Butternuts (both by Category and retainable status) will be provided in a separate email.

3. MECP has occurrences of Blanding's Turtle in the area of the current road alignment. This results in Category 1, 2 and/or 3 habitat for the species as per the General Habitat Description ([Blanding's Turtle General Habitat Description | Ontario.ca](#)) on site. Was habitat mapping completed to identify which habitat exists in relation to the road alignment options and how much and what types of habitat may be impacted? Were there any formal turtle surveys completed? The 90 kph road alignment option may result in the removal of habitat for the species which could require an authorization under the ESA. Was nesting or overwintering habitat identified? I did not see this noted in mapping provided. It appears that in the 60/70 kph and 70 kph there will be work on shoulders but based on information provided it appears that it would result in temporary impacts while the work is happening. This would need confirmation however working outside of the turtle active season may be a reasonable option. I would extend the timing noted in the report to include the active season for turtles which is considered April 16 to October 15. This would capture turtle movement from the beginning to the end of the season including nesting. Exclusion fencing is also an option to exclude turtles during this time if work needs to occur during the active season however exclusion fencing should be in place prior to the start of active season and should follow best management and guidelines as per the *Species at Risk Branch Best Practices Technical Note Reptile and Amphibian Exclusion Fencing Version 1.1 July 2013* ([Reptile and amphibian exclusion fencing | Ontario.ca](#)). If there are going to be impacts to cat 1, 2, or 3 Blanding's Turtle habitat (ex. it will be removed or filled) based on the alternative chosen there should be further discussion with MECP as this could result in the requirement of an authorization. Exclusion fencing should be considered in the active season in any locations where there are wetlands or water crossings while work is taking place. This areas should also be swept prior to the start of the work day to ensure no turtles are trapped on the wrong side on the fence.

We do not have delineated habitat mapping per the General habitat description; however, all wetlands along the corridor can be considered Blandings turtle habitat, and would be comprised of Category 1 and 2 habitat. The interpretation of this is that Category 2 habitat includes the wetland area, and 30 m buffer around it, and the category 3 habitat is adjacent to all wetlands, and extends from 30 m to 250 m offset from the wetland boundaries.

4. Eastern Meadowlark were confirmed through surveys on site. It appears through mapping that the 60/70 kph and 70 kph road alignments would likely not impact habitat for this species. However the 90 kph alignment may have some impacts depending on locations where Eastern Meadowlark were confirmed. Depending on the amount of habitat and location that may be impacted there may be a requirement to register for this species under O. Reg. 242/08 section 23.6 ([O. Reg. 242/08: GENERAL \(ontario.ca\)](#)) if the regulation applies. It would be good to familiarize yourself with this regulation however discussion with MECP would assist in determining if this would be a requirement or not as it would depend on the road alignment chosen and a greater look into the actual habitat being impacted and the amount of habitat being impacted (ie. Is it a small part of the edge of habitat or is cutting straight through a large patch of habitat). Consideration for vegetation and tree removal outside of the breeding bird window (April 15 to August 15) should also be considered.

Habitat for grassland SAR birds was noted at the north end of the study limits. The entirety of the fields stretching from Kennelly Mountain Road to the where the forested block on the east side of the road (to the south) begins is considered to represent suitable habitat. The habitat essentially starts around the back of the ditch or property line in this area, at the west edge of the agricultural fields. Mapping of the area with habitat to be forwarded.

5. Eastern Whip-poor-will were identified at several locations in the project limits. Locations of surveys were noted on mapping whoever I did not see information for approximate areas where birds were heard. Habitat mapping for the species should be completed according to the general habitat description for the species ([mnr.sar.ghd.whp.pr.will.en.pdf\(ontario.ca\)](http://mnr.sar.ghd.whp.pr.will.en.pdf(ontario.ca))). Habitat mapping would help to determine what the extent of impacts will be with regard to the road alignment options. Again, the 90kph road alignment option would likely have a higher degree of impacts as there are locations where the alignment deviates from the current alignment. It is likely that there would be less impacts if the road alignment selected did not deviate greatly from the current alignment however more information about the extent of habitat is required. This should be discussed further with MECP based on the preferred road alignment chosen to determine if an authorization for the species would be required. Mitigation considerations could include vegetation and tree clearing occurring outside of the breeding bird window (April 15 to August 15).

We do not have habitat mapping along the corridor, but we can provide general locations of audible observations noted during our field investigations. Based on the observations, habitat is considered to cover a fairly significant portion of the corridor (primarily at the north and south ends), as we had audible observations at 4 of the 7 point count locations (1,2,3, and 7). Mapping to be provided.

6. How was American Ginseng habitat assessed or confirmed within the project site? Were areas identified? It is noted that there are deviations from the current alignment with all three options (60/70 kph, 70 kph, 90 kph) however it appears the 60/70 kph likely has the lowest impact. Depending on where American Ginseng is located individuals and habitat may be impacted. The greater the deviations from the current alignment the higher the chances that there will be impacts. More information would be required for this species to determine if there will be impacts to individuals or habitat requiring authorization under the ESA.

For A. Ginseng, we reviewed historical observation information provided to us, and attempted to delineate those areas in the field. It was not interpreted that these areas were in immediate proximity to the road; however, there are key indicator species for A. Ginseng along the length of the corridor. Our assessment methodology included walking transects through the widening areas associated with the 90 km/hr alignment. We did not encounter any individuals during our surveys.

Other Mitigation to be considered:

- All on site staff should receive education and awareness training by a qualified professional to be able to identify species at risk and species at risk habitat that occur on site.
- All on site staff should receive education and awareness training by a qualified professional in order to know what to do if a species at risk is found on site including if one is alive, nesting, injured or dead (ex. stop work, protect the individual, allow the individual time to leave on its own, etc.).
- The proponent is responsible to ensure injured individuals get appropriate care at their cost and sent to an licensed wildlife custodian if required.
- Prior to the start of the work day the work site should be searched for any species at risk including in and around machinery and areas that have been excluded to ensure no species are in the work area.
- MECP should be notified if a species at risk is on site by email at SAROntario@ontario.ca.
- Any occurrences of species at risk should be submitted to the Natural Heritage Information Centre as soon as possible.

All three of the road alignment options could result in impacts to species at risk and their habitat requiring authorization under the ESA. Based on the information provided in the Natural Heritage Study it appears that the 90 kph alignment option would likely have the most impacts to species at risk as it deviates from the current alignment in more locations and to a greater degree (50 m or less) than the other options.

Also please note that if an authorization is required under the ESA, MECP recommends that the application process is started early as obtaining an authorization can take some time and this can result in timing constraints if not incorporated into timelines for the project.

If you would like to discuss further please let me know.

Best,

Carolyn Hann

Management Biologist | Permissions and Compliance Section | Ontario Ministry of Environment, Conservation and Parks | 10-1 Campus Drive, Kemptville, Ontario, K0G 1J0 | PH: 613.355.7312 | Email: carolyn.hann@ontario.ca

Dan Hagan (Greenview)

From: Tyler Peters (Greenview)
Sent: Friday, March 12, 2021 12:48 PM
To: Taylor Hanrath
Cc: Solutions - Greenview; Township of Greater Madawaska; Steve Inwood - Township of Greater Madawaska (sinwood@greatermadawaska.com); Dan Hagan (Greenview); Brett Kidd
Subject: RE: Notice of Study Commencement - Reconstruction of FLR, TGM, ON(102.20.025)

Hi Taylor,

Just following up on any design information you can share for the County's planned culvert replacements for this summer.

We are presenting to Township Council on Monday and a preferred alternative of a 60km/hr design speed is expected to be confirmed by Council to move forward with detailed design commencing in April 2021.

Thanks, and have a great weekend -

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Tyler Peters (Greenview)
Sent: February 26, 2021 3:26 PM
To: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Township of Greater Madawaska <aholtzhauer@greatermadawaska.com>; Steve Inwood - Township of Greater Madawaska (sinwood@greatermadawaska.com) <sinwood@greatermadawaska.com>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Brett Kidd <BKidd@countyofrenfrew.on.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Hi Taylor,

Thanks for this –

With such an elevation increase, please ensure that the contract extents for the County culvert replacements are carefully considered with conservative lengths of road on each side. The road geometry needs to match our design requirements, geotechnical, etc.

For coordination, we're wrapping up the Class EA in March/April, and are planning to be completing detailed design in April/May.

Look forward to the design information as soon as its available for coordination purposes.

Have a great weekend -

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management

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County of Renfrew
Phone 613-732-4353 x457

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613.332.0057 x 102
greenview-environmental.ca

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Sent: February 2, 2021 12:54 PM

To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>

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Taylor Hanrath
Acting Manager of Infrastructure
County of Renfrew
Phone 613-732-4353 x457
Mobile: 613-281-5090

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To: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>

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Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

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Hi Taylor;

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Regarding County assets, we're following up on the County's plans and timeline to replace culverts C058 on Constant Creek (STA 6+885).

Could you please provide an update for planning and coordination purposes, thank you.

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Sent: June 24, 2020 1:23 PM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Cc: Lee Perkins <LPerkins@countyofrenfrew.on.ca>; Michael Behm <MEBehm@countyofrenfrew.on.ca>; Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good afternoon Mr. Dan Hagan,

Please see attached Project Comment Form from the County of Renfrew for Reconstruction of Ferguson Lake Road Project.

Please do not hesitate to contact should you have any questions or require further information from the County of Renfrew.

Regards,

Taylor Hanrath
Infrastructure Coordinator

Department of Public Works & Engineering
County of Renfrew
9 International Drive
Pembroke, ON K8A 6W5
Phone 613 732 4353 x457
Fax 613 732 0087
thanrath@countyofrenfrew.on.ca



From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Sent: June 22, 2020 2:54 PM
To: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin

Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Sent: Wednesday, March 17, 2021 10:08 AM
To: Tyler Peters (Greenview)
Cc: Solutions - Greenview; Township of Greater Madawaska; Steve Inwood - Township of Greater Madawaska (sinwood@greatermadawaska.com); Dan Hagan (Greenview); Brett Kidd
Subject: RE: Notice of Study Commencement - Reconstruction of FLR, TGM, ON (102.20.025)

Good morning Tyler,

We are currently evaluating the benefits between twin SPCSP and twin precast box options but have confirmed that neither will result in significant grade raise over the structure. We have evaluated our property in the area of the structure and will be installing a longer structure so that we may soften the road side slopes in this area.

Once we have evaluated the option going forward, detailed design will be underway. Currently the design is at ~60% regardless of the option chosen.

Please let us know if you require greater detail on the design thus far.

Thanks,
Taylor

Taylor Hanrath
Acting Manager of Infrastructure
County of Renfrew
Phone 613-732-4353 x457

From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: March 12, 2021 11:48 AM
To: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Township of Greater Madawaska <aholtzhauer@greatermadawaska.com>; Steve Inwood - Township of Greater Madawaska (sinwood@greatermadawaska.com) <sinwood@greatermadawaska.com>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Brett Kidd <BKidd@countyofrenfrew.on.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

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Hi Taylor,

Just following up on any design information you can share for the County's planned culvert replacements for this summer.

We are presenting to Township Council on Monday and a preferred alternative of a 60km/hr design speed is expected to be confirmed by Council to move forward with detailed design commencing in April 2021.

Thanks, and have a great weekend -

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Tyler Peters (Greenview)
Sent: February 26, 2021 3:26 PM
To: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Township of Greater Madawaska <aholtzhauer@greatermadawaska.com>; Steve Inwood - Township of Greater Madawaska <sinwood@greatermadawaska.com>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Brett Kidd <BKidd@countyofrenfrew.on.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Hi Taylor,

Thanks for this –

With such an elevation increase, please ensure that the contract extents for the County culvert replacements are carefully considered with conservative lengths of road on each side. The road geometry needs to match our design requirements, geotechnical, etc.

For coordination, we're wrapping up the Class EA in March/April, and are planning to be completing detailed design in April/May.

Look forward to the design information as soon as its available for coordination purposes.

Have a great weekend -

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Sent: February 11, 2021 3:05 PM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Township of Greater Madawaska <aholtzhauer@greatermadawaska.com>; Steve Inwood - Township of Greater Madawaska <sinwood@greatermadawaska.com>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Brett Kidd <BKidd@countyofrenfrew.on.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Hi Tyler,

Sorry for the delay in responding, thank you for providing the preliminary design drawing for the roadway in the area of our culvert.

We are currently designing, but anticipate that a grade raise will be required over the new culvert(s) due to potential size increase and need for minimum 600mm of cover over the culvert. Once detailed design is near complete, we will provide a copy of the drawing to Greenview for review, input, and consideration in your road design.

Regards,

Taylor Hanrath
Acting Manager of Infrastructure
County of Renfrew
Phone 613-732-4353 x457

From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: February 5, 2021 2:57 PM
To: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Township of Greater Madawaska <aholtzhauer@greatermadawaska.com>; Steve Inwood - Township of Greater Madawaska <sinwood@greatermadawaska.com>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Brett Kidd <BKidd@countyofrenfrew.on.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

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Hi Taylor;

Happy Friday - thanks for the prompt response.

Please find attached a preliminary design drawing for the C058 culvert area.

As you will see, we're trying to match existing H&V conditions. Please review and we can discuss further.

Have a great weekend -

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Sent: February 2, 2021 12:54 PM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Township of Greater Madawaska <aholtzhauer@greatermadawaska.com>; Steve Inwood - Township of Greater Madawaska <sinwood@greatermadawaska.com>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Brett Kidd <BKidd@countyofrenfrew.on.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good afternoon Tyler,

I hope all is well with you and your team as well, thank you for reaching out.

We are currently comparing the cost of sizing options for this culvert prior to continuing detailed design for its replacement. Replacement is planned for the upcoming construction season.

Would you be able to provide plans for the roadway in the area of C058? We want to ensure that our design will adequately accommodate any planned elevation or alignment changes in this location.

Thanks,
Taylor

Taylor Hanrath
Acting Manager of Infrastructure
County of Renfrew
Phone 613-732-4353 x457
Mobile: 613-281-5090

From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: February 2, 2021 12:11 PM
To: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Michael Behm <MEBehm@countyofrenfrew.on.ca>; Township of Greater Madawaska <aholtzhauer@gretermadawaska.com>; Steve Inwood - Township of Greater Madawaska (<sinwood@gretermadawaska.com>) <sinwood@gretermadawaska.com>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

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Hi Taylor;

I trust this email finds you well.

On behalf of the Township of Greater Madawaska, we're planning out the completion of this project over 2021 and 2022. Primary road reconstruction is currently planned to commence in spring 2022.

Regarding County assets, we're following up on the County's plans and timeline to replace culverts C058 on Constant Creek (STA 6+885).

Could you please provide an update for planning and coordination purposes, thank you.

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Sent: June 24, 2020 1:23 PM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Cc: Lee Perkins <LPerkins@countyofrenfrew.on.ca>; Michael Behm <MEBehm@countyofrenfrew.on.ca>; Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Subject: RE: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good afternoon Mr. Dan Hagan,

Please see attached Project Comment Form from the County of Renfrew for Reconstruction of Ferguson Lake Road Project.

Please do not hesitate to contact should you have any questions or require further information from the County of Renfrew.

Regards,

Taylor Hanrath
Infrastructure Coordinator

Department of Public Works & Engineering
County of Renfrew
9 International Drive
Pembroke, ON K8A 6W5
Phone 613 732 4353 x457
Fax 613 732 0087
thanrath@countyofrenfrew.on.ca



From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>

Sent: June 22, 2020 2:54 PM

To: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>

Cc: Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: Notice of Study Commencement - Reconstruction of Ferguson Lake Road, Township of Greater Madawaska, ON (102.20.025)

Good day;

Please see the attached for your review.

Thank you,

Celine Boutin
Office Administrator



613.332.0057 x 101
www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Tyler Peters (Greenview)
Sent: Tuesday, March 23, 2021 9:12 AM
To: Celine Boutin (Greenview)
Subject: FW: 20501-1 - 2021-02-03_Ferguson Lake Road Reconstruction Comments

Pls file

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Scott Reynolds <reynolds@ainleygroup.com>
Sent: March 23, 2021 6:29 AM
To: 'Hann, Carolyn (MECP)' <Carolyn.Hann@ontario.ca>
Cc: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Subject: RE: 20501-1 - 2021-02-03_Ferguson Lake Road Reconstruction Comments

Thanks Carolyn.

Scott Reynolds, B.Sc.(Env), EP
Senior Environmental Planner



Ainley Graham & Associates Limited
139 Front Street, Unit 100
Belleville, Ontario, K8N 2Y6
Tel: (613) 966-4243 ext. 105
Fax: (613) 966-1168
Cell: (613) 243-0567
reynolds@ainleygroup.com

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From: Hann, Carolyn (MECP) [<mailto:Carolyn.Hann@ontario.ca>]
Sent: March-22-21 4:47 PM
To: Scott Reynolds
Subject: RE: 20501-1 - 2021-02-03_Ferguson Lake Road Reconstruction Comments

Hi Scott,

I have received the additional information however I have not had a chance to look at it as of yet. Once reviewed I will send you a response with any further questions or concerns.

Best,

Carolyn Hann

Management Biologist | Permissions and Compliance Section | Ontario Ministry of Environment, Conservation and Parks | 10-1 Campus Drive, Kemptville, Ontario, K0G 1J0 | PH: 613.355.7312 | Email: carolyn.hann@ontario.ca

From: Scott Reynolds <reynolds@ainleygroup.com>
Sent: March-22-21 11:11 AM
To: Hann, Carolyn (MECP) <Carolyn.Hann@ontario.ca>
Cc: tyler.peters@greenview-environmental.ca; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; davison@ainleygroup.com
Subject: RE: 20501-1 - 2021-02-03_Ferguson Lake Road Reconstruction Comments

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Hi Carolyn,

I hope you had a good weekend.

I just wanted to follow up the below and confirm you were received the mapping, and if you had any further comments / thoughts for consideration in the design.

Thanks,

Scott Reynolds, B.Sc.(Env), EP
Senior Environmental Planner



Ainley Graham & Associates Limited
139 Front Street, Unit 100
Belleville, Ontario, K8N 2Y6
Tel: (613) 966-4243 ext. 105
Fax: (613) 966-1168
Cell: (613) 243-0567
reynolds@ainleygroup.com

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From: Scott Reynolds [<mailto:reynolds@ainleygroup.com>]
Sent: March-01-21 8:44 PM
To: carolyn.hann@ontario.ca
Cc: tyler.peters@greenview-environmental.ca; Dan Hagan (Greenview) (dan.hagan@greenview-environmental.ca); davison@ainleygroup.com
Subject: 20501-1 - 2021-02-03_Ferguson Lake Road Reconstruction Comments

Hi Carolyn,

As a follow-up to my earlier email, please find the attached figures and additional notes below (in green) which should help with your review. We have included the preferred alignment (60 kph) on the figures for reference.

1. MECP has occurrence data for all 4 Species at Risk Bats (Eastern Small-footed Myotis, Little Brown Bat, Northern Myotis and Tricolored Bat) in the area of the project location. If tree clearing occurs outside of the bat active season (April 1 to Sept 30) there likely is no requirement for an authorization for this species under the Endangered Species Act, 2007 (ESA) for either of the three alternatives being proposed. The timing window would be extended if there are known swarming or hibernacula sites in the area of the different alignments resulting in the timing window being extended to October 15. If the timing window cannot be respected further discussions are required with MECP and this could result in additional need for identification of habitat through surveys and requirements for an authorization under the ESA.

Noted, thanks. The intent would be to adhere to timing windows to the extent possible.

No figures / additional information required.

2. It is noted that 37 Butternut were identified on site of which some are category 2 and 3 trees. If there are impacts to Category 2 trees up to 10 category 2 trees can be registered under O.Reg. 242/08 under section 23.7 ([O. Reg. 242/08: GENERAL \(ontario.ca\)](#)). I did not see any mapping of locations of butternuts in relation to the road alignment options. If there are impacts to Category 3 Butternuts including to the individual or habitat an authorization will be required for this species. Category 1 habitat around a butternut is considered the 0-25 metres radius around the individual and this protects the critical root zone of the tree and has the lowest tolerance to alteration. Category 2 habitat around a butternut is considered to be 25-50 metres radius around the tree and this protects the core area that Butternuts individuals depend on for seed dispersal and seedling establishment and it has a moderate tolerance to alteration. Depending on the road alignment chosen and the locations of the tree and the work occurring near the tree there may be a requirement for an authorization. The 90kph alignment has the most deviations from the current road alignment and depending on the locations of the trees may result in impacts. The other 2 options may also impact Butternut depending on where work would take place in relation to the trees. Further discussions with MECP are recommended to determine if an authorization under the ESA would be required for either of road alignment options.

Noted. The locations of the Butternuts (both by Category and retainable status) will be provided in a separate email.

The location of the Category 1, 2, and 3 Butternuts has been included on figures.

3. MECP has occurrences of Blanding's Turtle in the area of the current road alignment. This results in Category 1, 2 and/or 3 habitat for the species as per the General Habitat Description ([Blanding's Turtle General Habitat Description | Ontario.ca](#)) on site. Was habitat mapping completed to identify which habitat exists in relation to the road alignment options and how much and what types of habitat may be impacted? Were there any formal turtle surveys completed? The 90 kph road alignment option may result in the removal of habitat for the species which could require an authorization under the ESA. Was nesting or overwintering habitat identified? I did not see this noted in mapping provided. It appears that in the 60/70 kph and 70 kph there will be work on shoulders but based on information provided it appears that it would result in temporary impacts while the work is happening. This would need confirmation however working outside of the turtle active season may be a reasonable option. I would extend the timing noted in the report to include the active season for turtles which is considered April 16 to October 15. This would capture turtle movement from the beginning to the end of the season including nesting. Exclusion fencing is also an option to exclude turtles during this time if work

needs to occur during the active season however exclusion fencing should be in place prior to the start of active season and should follow best management and guidelines as per the *Species at Risk Branch Best Practices Technical Note Reptile and Amphibian Exclusion Fencing Version 1.1 July 2013* ([Reptile and amphibian exclusion fencing | Ontario.ca](#)). If there are going to be impacts to cat 1, 2, or 3 Blanding's Turtle habitat (ex. it will be removed or filled) based on the alternative chosen there should be further discussion with MECP as this could result in the requirement of an authorization. Exclusion fencing should be considered in the active season in any locations where there are wetlands or water crossings while work is taking place. These areas should also be swept prior to the start of the work day to ensure no turtles are trapped on the wrong side of the fence.

We do not have delineated habitat mapping per the General habitat description; however, all wetlands along the corridor can be considered Blandings turtle habitat, and would be comprised of Category 1 and 2 habitat. The interpretation of this is that Category 2 habitat includes the wetland area, and 30 m buffer around it, and the category 3 habitat is adjacent to all wetlands, and extends from 30 m to 250 m offset from the wetland boundaries.

All wetlands and large watercourses (i.e. Constant Creek) along the corridor are considered Blanding's Turtle habitat. We have attached figures from our natural heritage report which depict areas of wetland and watercourse as provided by MNR Land Information Ontario.

4. Eastern Meadowlark were confirmed through surveys on site. It appears through mapping that the 60/70 kph and 70 kph road alignments would likely not impact habitat for this species. However the 90 kph alignment may have some impacts depending on locations where Eastern Meadowlark were confirmed. Depending on the amount of habitat and location that may be impacted there may be a requirement to register for this species under O. Reg. 242/08 section 23.6 ([O. Reg. 242/08: GENERAL \(ontario.ca\)](#)) if the regulation applies. It would be good to familiarize yourself with this regulation however discussion with MECP would assist in determining if this would be a requirement or not as it would depend on the road alignment chosen and a greater look into the actual habitat being impacted and the amount of habitat being impacted (i.e. Is it a small part of the edge of habitat or is cutting straight through a large patch of habitat). Consideration for vegetation and tree removal outside of the breeding bird window (April 15 to August 15) should also be considered.

Habitat for grassland SAR birds was noted at the north end of the study limits. The entirety of the fields stretching from Kennelly Mountain Road to the where the forested block on the east side of the road (to the south) begins is considered to represent suitable habitat. The habitat essentially starts around the back of the ditch or property line in this area, at the west edge of the agricultural fields. Mapping of the area with habitat to be forwarded.

Mapping of the above noted grassland SAR bird habitat has been provided on the attached figures.

5. Eastern Whip-poor-will were identified at several locations in the project limits. Locations of surveys were noted on mapping however I did not see information for approximate areas where birds were heard. Habitat mapping for the species should be completed according to the general habitat description for the species ([mnr_sar_ghd_whp_pr_wll_en.pdf \(ontario.ca\)](#)). Habitat mapping would help to determine what the extent of impacts will be with regard to the road alignment options. Again, the 90kph road alignment option would likely have a higher degree of impacts as there are locations where the alignment deviates from the current alignment. It is likely that there would be less impacts if the road alignment selected did not deviate greatly from the current alignment however more information about the extent of habitat is required. This should be discussed further with MECP based on the preferred road alignment chosen to determine if an authorization for the species would be required. Mitigation considerations could include vegetation and tree clearing occurring outside of the breeding bird window (April 15 to August 15).

We do not have habitat mapping along the corridor, but we can provide general locations of audible observations noted during our field investigations. Based on the observations, habitat is considered to cover a fairly significant portion of the corridor (primarily at the north and south ends), as we had audible observations at 4 of the 7 point count locations (1,2,3, and 7). Mapping to be provided.

Mapping of the Whip-poor-will survey locations and approximated audible observation locations has been provided on the attached figures. Please note that the mapped observation locations are best estimates.

6. How was American Ginseng habitat assessed or confirmed within the project site? Were areas identified? It is noted that there are deviations from the current alignment with all three options (60/70 kph, 70 kph, 90 kph) however it appears the 60/70 kph likely has the lowest impact. Depending on where American Ginseng is located individuals and habitat may be impacted. The greater the deviations from the current alignment the higher the chances that there will be impacts. More information would be required for this species to determine if there will be impacts to individuals or habitat requiring authorization under the ESA.

For A. Ginseng, we reviewed historical observation information provided to us, and attempted to delineate those areas in the field. It was not interpreted that these areas were in immediate proximity to the road; however, there are key indicator species for A. Ginseng along the length of the corridor. Our assessment methodology included walking transects through the widening areas associated with the 90 km/hr alignment. We did not encounter any individuals during our surveys.

No figures / additional information required.

Scott Reynolds, B.Sc.(Env), EP
Senior Environmental Planner



Ainley Graham & Associates Limited
139 Front Street, Unit 100
Belleville, Ontario, K8N 2Y6
Tel: (613) 966-4243 ext. 105
Fax: (613) 966-1168
Cell: (613) 243-0567
reynolds@ainleygroup.com

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From: Scott Reynolds [<mailto:reynolds@ainleygroup.com>]

Sent: March 1, 2021 9:05 AM

To: carolyn.hann@ontario.ca

Cc: tyler.peters@greenview-environmental.ca; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; davison@ainleygroup.com

Subject: FW: 2021-02-03_Ferguson Lake Road Reconstruction Comments

Hi Carolyn,

Thanks for the feedback on the Ferguson Lake Road project. We have been reviewing our available mapping, and the design team has been assessing the alternatives based on the constraint information provided to date. With that in mind, the preliminary recommended alternative will be the 60 km/hr alignment.

We do not have detailed mapping for Blanding's, Whippoorwill, or grassland SAR birds, but have been putting together what we have and will send to you as soon as it is available.

In terms of approvals, gathering that you will need detail design plans of the recommended alternative. Please confirm, and let me know if you will be in need of any other information such as IGF forms.

Thanks,

Scott Reynolds, B.Sc.(Env), EP
Senior Environmental Planner



Ainley Graham & Associates Limited
139 Front Street, Unit 100
Belleville, Ontario, K8N 2Y6
Tel: (613) 966-4243 ext. 105
Fax: (613) 966-1168
Cell: (613) 243-0567
reynolds@ainleygroup.com

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From: Hann, Carolyn (MECP) [<mailto:Carolyn.Hann@ontario.ca>]
Sent: February-03-21 11:50 AM
To: Scott Reynolds
Subject: 2021-02-03_Ferguson Lake Road Reconstruction Comments

Hi Scott,

I have reviewed the Natural Heritage Study Ferguson Lake Road Reconstruction Township of Madawaska Renfrew County provided on December 14, 2020 and additional mapping information from Feb 3, 2021.

Project Summary: Reconstruction of Ferguson Lake Road from Kennelly Mountain Road to 200 m south of Campground Side Road, within the Township of Greater Madawaska, Renfrew County. There are three alignment options at this time (60/70 kph, 70 kph and 90 kph). The Ministry of the Environment, Conservation and Parks (MECP) understand that at this time the preferred alternative is not confirmed. Please note without knowing the actual footprint and details of the works of the road reconstruction it is difficult to provide guidance with respect to the project and species at risk and their habitat in relation to the *Endangered Species Act, 2007* (ESA). MECP will provide general comments with respect to the difference alternatives identified and can provide additional guidance once the preferred alignment is chosen and there are more details about the footprint and works related to the proposed project.

Based on the information provided MECP has the following guidance with respect to species at risk and the ESA:

1. MECP has occurrence data for all 4 Species at Risk Bats (Eastern Small-footed Myotis, Little Brown Bat, Northern Myotis and Tricolored Bat) in the area of the project location. If tree clearing occurs outside of the bat active season (April 1 to Sept 30) there likely is no

requirement for an authorization for this species under the Endangered Species Act, 2007 (ESA) for either of the three alternatives being proposed. The timing window would be extended if there are known swarming or hibernacula sites in the area of the different alignments resulting in the timing window being extended to October 15. If the timing window cannot be respected further discussions are required with MECP and this could result in additional need for identification of habitat through surveys and requirements for an authorization under the ESA.

Noted, thanks. The intent would be to adhere to timing windows to the extent possible.

2. It is noted that 37 Butternut were identified on site of which some are category 2 and 3 trees. If there are impacts to Category 2 trees up to 10 category 2 trees can be registered under O.Reg. 242/08 under section 23.7 ([O. Reg. 242/08: GENERAL \(ontario.ca\)](#)). I did not see any mapping of locations of butternuts in relation to the road alignment options. If there are impacts to Category 3 Butternuts including to the individual or habitat an authorization will be required for this species. Category 1 habitat around a butternut is considered the 0-25 metres radius around the individual and this protects the critical root zone of the tree and has the lowest tolerance to alteration. Category 2 habitat around a butternut is considered to be 25-50 metres radius around the tree and this protects the core area that Butternuts individuals depend on for seed dispersal and seedling establishment and it has a moderate tolerance to alteration. Depending on the road alignment chosen and the locations of the tree and the work occurring near the tree there may be a requirement for an authorization. The 90kph alignment has the most deviations from the current road alignment and depending on the locations of the trees may result in impacts. The other 2 options may also impact Butternut depending on where work would take place in relation to the trees. Further discussions with MECP are recommended to determine if an authorization under the ESA would be required for either of road alignment options.

Noted. The locations of the Butternuts (both by Category and retainable status) will be provided in a separate email.

3. MECP has occurrences of Blanding's Turtle in the area of the current road alignment. This results in Category 1, 2 and/or 3 habitat for the species as per the General Habitat Description ([Blanding's Turtle General Habitat Description | Ontario.ca](#)) on site. Was habitat mapping completed to identify which habitat exists in relation to the road alignment options and how much and what types of habitat may be impacted? Were there any formal turtle surveys completed? The 90 kph road alignment option may result in the removal of habitat for the species which could require an authorization under the ESA. Was nesting or overwintering habitat identified? I did not see this noted in mapping provided. It appears that in the 60/70 kph and 70 kph there will be work on shoulders but based on information provided it appears that it would result in temporary impacts while the work is happening. This would need confirmation however working outside of the turtle active season may be a reasonable option. I would extend the timing noted in the report to include the active season for turtles which is considered April 16 to October 15. This would capture turtle movement from the beginning to the end of the season including nesting. Exclusion fencing is also an option to exclude turtles during this time if work needs to occur during the active season however exclusion fencing should be in place prior to the start of active season and should follow best management and guidelines as per the *Species at Risk Branch Best Practices Technical Note Reptile and Amphibian Exclusion Fencing Version 1.1 July 2013* ([Reptile and amphibian exclusion fencing | Ontario.ca](#)). If there are going to be impacts to cat 1, 2, or 3 Blanding's Turtle habitat (ex. it will be removed or filled) based on the alternative chosen there should be further discussion with MECP as this could result in the requirement of an authorization. Exclusion fencing should be considered in the

active season in any locations where there are wetlands or water crossings while work is taking place. These areas should also be swept prior to the start of the work day to ensure no turtles are trapped on the wrong side of the fence.

We do not have delineated habitat mapping per the General habitat description; however, all wetlands along the corridor can be considered Blandings turtle habitat, and would be comprised of Category 1 and 2 habitat. The interpretation of this is that Category 2 habitat includes the wetland area, and 30 m buffer around it, and the category 3 habitat is adjacent to all wetlands, and extends from 30 m to 250 m offset from the wetland boundaries.

4. Eastern Meadowlark were confirmed through surveys on site. It appears through mapping that the 60/70 kph and 70 kph road alignments would likely not impact habitat for this species. However the 90 kph alignment may have some impacts depending on locations where Eastern Meadowlark were confirmed. Depending on the amount of habitat and location that may be impacted there may be a requirement to register for this species under O. Reg. 242/08 section 23.6 ([O. Reg. 242/08: GENERAL \(ontario.ca\)](#)) if the regulation applies. It would be good to familiarize yourself with this regulation however discussion with MECP would assist in determining if this would be a requirement or not as it would depend on the road alignment chosen and a greater look into the actual habitat being impacted and the amount of habitat being impacted (i.e. Is it a small part of the edge of habitat or is cutting straight through a large patch of habitat). Consideration for vegetation and tree removal outside of the breeding bird window (April 15 to August 15) should also be considered.

Habitat for grassland SAR birds was noted at the north end of the study limits. The entirety of the fields stretching from Kennelly Mountain Road to the where the forested block on the east side of the road (to the south) begins is considered to represent suitable habitat. The habitat essentially starts around the back of the ditch or property line in this area, at the west edge of the agricultural fields. Mapping of the area with habitat to be forwarded.

5. Eastern Whip-poor-will were identified at several locations in the project limits. Locations of surveys were noted on mapping however I did not see information for approximate areas where birds were heard. Habitat mapping for the species should be completed according to the general habitat description for the species ([mnr_sar_ghd_whp_pr_will_en.pdf \(ontario.ca\)](#)). Habitat mapping would help to determine what the extent of impacts will be with regard to the road alignment options. Again, the 90kph road alignment option would likely have a higher degree of impacts as there are locations where the alignment deviates from the current alignment. It is likely that there would be less impacts if the road alignment selected did not deviate greatly from the current alignment however more information about the extent of habitat is required. This should be discussed further with MECP based on the preferred road alignment chosen to determine if an authorization for the species would be required. Mitigation considerations could include vegetation and tree clearing occurring outside of the breeding bird window (April 15 to August 15).

We do not have habitat mapping along the corridor, but we can provide general locations of audible observations noted during our field investigations. Based on the observations, habitat is considered to cover a fairly significant portion of the corridor (primarily at the north and south ends), as we had audible observations at 4 of the 7 point count locations (1,2,3, and 7). Mapping to be provided.

6. How was American Ginseng habitat assessed or confirmed within the project site? Were areas identified? It is noted that there are deviations from the current alignment with all three options (60/70 kph, 70 kph, 90 kph) however it appears the 60/70 kph likely has the lowest impact. Depending on where American Ginseng is located individuals and habitat may be impacted. The greater the deviations from the current alignment the higher the chances that there will be impacts. More information would be required for this species to determine if there will be impacts to individuals or habitat requiring authorization under the ESA.

For A. Ginseng, we reviewed historical observation information provided to us, and attempted to delineate those areas in the field. It was not interpreted that these areas were in immediate proximity to the road; however, there are key indicator species for A. Ginseng along the length of the corridor. Our assessment methodology included walking transects through the widening areas associated with the 90 km/hr alignment. We did not encounter any individuals during our surveys.

Other Mitigation to be considered:

- All on site staff should receive education and awareness training by a qualified professional to be able to identify species at risk and species at risk habitat that occur on site.
- All on site staff should receive education and awareness training by a qualified professional in order to know what to do if a species at risk is found on site including if one is alive, nesting, injured or dead (ex. stop work, protect the individual, allow the individual time to leave on its own, etc.).
- The proponent is responsible to ensure injured individuals get appropriate care at their cost and sent to an licensed wildlife custodian if required.
- Prior to the start of the work day the work site should be searched for any species at risk including in and around machinery and areas that have been excluded to ensure no species are in the work area.
- MECP should be notified if a species at risk is on site by email at SAROntario@ontario.ca.
- Any occurrences of species at risk should be submitted to the Natural Heritage Information Centre as soon as possible.

All three of the road alignment options could result in impacts to species at risk and their habitat requiring authorization under the ESA. Based on the information provided in the Natural Heritage Study it appears that the 90 kph alignment option would likely have the most impacts to species at risk as it deviates from the current alignment in more locations and to a greater degree (50 m or less) than the other options.

Also please note that if an authorization is required under the ESA, MECP recommends that the application process is started early as obtaining an authorization can take some time and this can result in timing constraints if not incorporated into timelines for the project.

If you would like to discuss further please let me know.

Best,

Carolyn Hann

Management Biologist | Permissions and Compliance Section | Ontario Ministry of Environment, Conservation and Parks | 10-1 Campus Drive, Kemptville, Ontario, K0G 1J0 | PH: 613.355.7312 | Email: carolyn.hann@ontario.ca



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Dan Hagan (Greenview)

From: Tyler Peters (Greenview)
Sent: Thursday, April 1, 2021 2:03 PM
To: Brett Kidd
Cc: Solutions - Greenview
Subject: RE: Ferguson Lake Road Design

Hi Brett,

Sorry for the delay in responding.

We didn't perform any traffic counts on the road. We were provided the following from the Township (source unknown) of:

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Summer Average Daily Traffic (SADT)	600
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Classification (arterial, collector, local road)	Local Road

Regarding design speed, the road is currently posted at a single location near Calabogie Road at 60km/h. We are currently working with a 60km/h or 70km/h design speed for the rehab project.

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Sent: March 30, 2021 11:25 AM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Subject: Ferguson Lake Road Design

Good morning Tyler,

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Also just for clarification, you are looking into changing the design speed?

Brett Kidd, EIT
Infrastructure Coordinator

Department of Public Works & Engineering
County of Renfrew

9 International Drive
Pembroke, ON K8A 6W5
Phone 613 732 4353 x449
Fax 613 732 0087
bkidd@countyofrenfrew.on.ca



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Dan Hagan (Greenview)

From: Tyler Peters (Greenview)
Sent: Friday, April 30, 2021 9:35 AM
To: Celine Boutin (Greenview)
Subject: FW: Ferguson Lake Road Design

Pls file, thanks.

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Sent: April 29, 2021 3:18 PM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Subject: RE: Ferguson Lake Road Design

Good afternoon Tyler,

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Also are you expecting to re-surface with asphalt? If so, what thickness would you be aiming for?

I apologize for the inconvenience,
Thanks,

Brett Kidd, EIT
Infrastructure Coordinator

Department of Public Works & Engineering
County of Renfrew
9 International Drive
Pembroke, ON K8A 6W5
Phone 613 732 4353 x449
Fax 613 732 0087
bkidd@countyofrenfrew.on.ca



From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: April 1, 2021 1:03 PM
To: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: RE: Ferguson Lake Road Design

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Tyler Peters, P.Eng.

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Dan Hagan (Greenview)

From: Howe, Jordan <Jordan.Howe@wsp.com>
Sent: Friday, April 30, 2021 11:13 AM
To: Tyler Peters (Greenview)
Cc: Solutions - Greenview; Mansfield, Andrew
Subject: RE: Ferguson Lake Road Design

Tyler,

Per Ainley's draft pavement design report, the new roadway structure will consist of 50mm HL4 Asphalt over 150mm Granular 'A' over 300mm Granular 'B' or suitable fill.

Regards,

Jordan Howe, P.Eng
Project Engineer | Transportation



T+ 1 343-357-0605

Jordan.howe@wsp.com | wsp.com

From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: April 30, 2021 8:34 AM
To: Mansfield, Andrew <Andrew.Mansfield@wsp.com>; Howe, Jordan <Jordan.Howe@wsp.com>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: FW: Ferguson Lake Road Design

Morning, Boys;

For your review, thanks.

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Sent: April 29, 2021 3:18 PM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Subject: RE: Ferguson Lake Road Design

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Infrastructure Coordinator

Department of Public Works & Engineering

County of Renfrew

9 International Drive

Pembroke, ON K8A 6W5

Phone 613 732 4353 x449

Fax 613 732 0087

bkidd@countyofrenfrew.on.ca



From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>

Sent: April 1, 2021 1:03 PM

To: Brett Kidd <BKidd@countyofrenfrew.on.ca>

Cc: Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: RE: Ferguson Lake Road Design

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Tyler Peters, P.Eng.

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From: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Sent: March 30, 2021 11:25 AM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Subject: Ferguson Lake Road Design

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-LAEHhHzdJzBITWfa4Hgs7pbKI

Dan Hagan (Greenview)

From: Tyler Peters (Greenview)
Sent: Tuesday, May 4, 2021 9:54 AM
To: Brett Kidd
Cc: Solutions - Greenview
Subject: RE: Ferguson Lake Road Design

Good morning Brett;

Our geotechnical consultant advises of 50mm HL4 asphalt (single lift) over 150mm GA, over 300mm GB (or suitable fill).

Cheers,

Tyler Peters, P.Eng.

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613.332.0057 x 102
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Brett Kidd, EIT
Infrastructure Coordinator

Department of Public Works & Engineering
County of Renfrew
9 International Drive
Pembroke, ON K8A 6W5
Phone 613 732 4353 x449
Fax 613 732 0087
bkidd@countyofrenfrew.on.ca



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Sent: April 1, 2021 1:03 PM
To: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>
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Tyler Peters, P.Eng.

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Brett Kidd, EIT

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Dan Hagan (Greenview)

From: Tyler Peters (Greenview)
Sent: Thursday, May 27, 2021 4:13 PM
To: Brett Kidd
Cc: Taylor Hanrath; Solutions - Greenview; Dan Hagan (Greenview)
Subject: RE: Ferguson Lake Road Design

Hi Brett,

We're looking for an update on the culvert replacements for design coordination.

When can you share preliminary drawings?

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: May 4, 2021 9:16 AM
To: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Cc: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: RE: Ferguson Lake Road Design

Thanks Brett;

Please share your preliminary design information as soon as you can for us to consider when we go to detailed design hopefully in the next few weeks.

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Sent: May 4, 2021 9:11 AM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Cc: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Subject: RE: Ferguson Lake Road Design

Ok perfect, thank you Tyler

I will incorporate that info into my structure replacement plans

From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: May 4, 2021 8:54 AM

To: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: RE: Ferguson Lake Road Design

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Brett Kidd, EIT
Infrastructure Coordinator

Department of Public Works & Engineering
County of Renfrew
9 International Drive
Pembroke, ON K8A 6W5
Phone 613 732 4353 x449
Fax 613 732 0087
bkidd@countyofrenfrew.on.ca



From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: April 1, 2021 1:03 PM
To: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: RE: Ferguson Lake Road Design

[CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.]

Hi Brett,

Sorry for the delay in responding.

We didn't perform any traffic counts on the road. We were provided the following from the Township (source unknown) of:

Current Average Annual Daily Traffic (AADT)	280
Summer Average Daily Traffic (SADT)	600
Current daily volume or percentage of trucks	15%
Current daily volume of pedestrians and cyclists	5%
Future AADT (10 and/or 20 year forecast), truck, pedestrians and cyclists volume	350, 15%, 10%
Classification (arterial, collector, local road)	Local Road

Regarding design speed, the road is currently posted at a single location near Calabogie Road at 60km/h. We are currently working with a 60km/h or 70km/h design speed for the rehab project.

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Sent: March 30, 2021 11:25 AM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Subject: Ferguson Lake Road Design

Good morning Tyler,

I'm just contacting you to inquire if Greenview has performed any recent traffic counts for Ferguson Lake road? I have an estimated AADT of 185 with 10% truck traffic but I was hoping you might have a more recent and/or accurate figure.

Also just for clarification, you are looking into changing the design speed?

Brett Kidd, EIT
Infrastructure Coordinator

Department of Public Works & Engineering
County of Renfrew

9 International Drive
Pembroke, ON K8A 6W5
Phone 613 732 4353 x449
Fax 613 732 0087
bkidd@countyofrenfrew.on.ca



The information in this email and any accompanying document(s) are intended solely for the addressee(s) named, and is confidential. Any other distribution, disclosure or copying is strictly prohibited. If you have received this communication in error, please reply by email to the sender and delete or destroy all copies of this message with all attached document(s).

Ce courriel peut faire état d'information privilégiée ou confidentielle destinée à une personne ou à une entité nommée dans ce message. Dans l'éventualité où le lecteur de ce message n'est pas le récipiendaire visé ou l'agent responsable de le faire suivre au récipiendaire visé, vous êtes par la présente avisé que toute revue, diffusion, distribution ou reproduction de cette communication est interdite. Si cette communication a été reçue par erreur, veuillez nous en aviser par réponse de courriel et supprimer le message original et tous documents ci-joints.

Notice of Public Information Centre

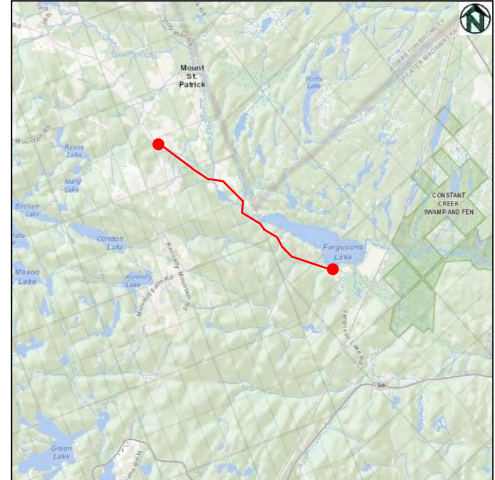
Reconstruction of Ferguson Lake Road Project Schedule B - Municipal Class Environmental Assessment

The Township of Greater Madawaska is undertaking a study to determine the most suitable alternative to reconstruct 5.7 km of Ferguson Lake Road, from approximately Campground Side Road to Kennelly Mountain Road. The project is being implemented in order to improve road safety, efficiency, drainage, and active transportation uses. This Notice has been issued in order to notify the public of the upcoming *Public Information Centre*.

How Might This Project Impact Me?

The study has been undertaken in accordance with a Schedule B Undertaking of the Municipal Class Environmental Assessment (MCEA, 2015), as amended. The Schedule B – MCEA study for Ferguson Lake Road has considered and assessed reconstruction alternatives, and the associated potential for impacts on the study area from each alternative.

At this time, careful consideration of the potential impacts of all alternatives have been reviewed by the Township. An initial determination of a *Preferred Alternative* for the reconstruction of Ferguson Lake Road has been made by Municipal Council based on the results of various studies completed, and input from agencies, the public, Indigenous Communities, and other interested parties.



Details on the Public Information Centre

The public is invited to join the Township for a virtual *Public Information Centre* event to be informed on the results of the Schedule B – MCEA study, including results of the various studies completed, design alternatives that were considered, and the initial determination on the *Preferred Alternative* for the reconstruction of Ferguson Lake Road, as identified by the Township. The *Public Information Centre* is planned to occur per the following details:

Date: Tuesday, June 15, 2021

Time: 7:00 p.m.

Due to the on-going COVID-19 Pandemic and related restrictions on public gatherings, the *Public Information Centre* is planned to be conducted as a virtual event only. If you are interested in joining the Township for the *Public Information Centre*, or would like additional information on this project, please contact the undersigned in order to be provided with access details for the event:

Owner:
Township of Greater Madawaska
Allison Holtzhauer
CAO/Clerk-Treasurer
19 Parnell Street
Calabogie, Ontario K0J 1H0
Tel: 613-752-2222
E-mail: cao@greatermadawaska.com

Prime Consultant:
Greenview Environmental Management Limited
Tyler Peters, P.Eng.
Project Director
13 Commerce Court
Bancroft, Ontario K0L 1C0
Tel: 613-332-0057
E-mail: solutions@greenview-environmental.ca

NOTICE:

Respondents should note that information collected for this study will be subject to the *Freedom of Information and Protection of Privacy Act*. With the exception of personal information, all comments received will become part of the public record and may be included in the study documentation prepared for public review.

Following the *Public Information Centre*, comments will be received by the Township until June 29, 2021. After the comment period, the Township intends to proceed with a *Project File Report*, to be placed on the public record for a minimum 30-day review period, per the requirements of the MCEA process.

This Notice is Issued May 27, 2021

Allison Holtzhauer
CAO/Clerk-Treasurer, Township of Greater Madawaska

Project Comment Form

**Re: Notice of Public Information Centre
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.21.025**

Please refer to the provided information and Notice of Public Information Centre associated with the above-noted project.

Name: _____
Agency (if applicable): _____
Address: _____
Email: _____

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☐ I/We wish to be involved further in the project as noted below:

Signature

Please return this completed form by **June 29, 2021** to:

**Mr. Tyler Peters, P. Eng.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057**

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:44 AM
To: Solutions - Greenview
Subject: Notice of PIC - Federal Agencies & Authorities - Reconstruction of FLR Project - TGM (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Public Information Centre (PIC) - Notice - FINAL - May27-21.pdf;
102.21.025 - FLR - Notice of Public Information Centre (PIC) - Comment Form - FINAL - May27-21.pdf

Good morning, Federal Agencies & Authorities:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, for your consideration, as part of the requirements of the *Schedule B Municipal Class Environmental Assessment* for the project. A copy of this submission will also be provided to you in hardcopy format, by mail (if mailing address information for your office is known).

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, your office was provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:44 AM
To: Solutions - Greenview
Subject: Notice of PIC - Provincial Agencies & Authorities - Reconstruction of FLR Project - TGM
Attachments: 102.21.025 - FLR - Notice of Public Information Centre (PIC) - Notice - FINAL - May27-21.pdf;
102.21.025 - FLR - Notice of Public Information Centre (PIC) - Comment Form - FINAL - May27-21.pdf

Good morning, Provincial Agencies & Authorities:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:45 AM
To: Solutions - Greenview
Subject: Notice of PIC - Upper/Lower Tier Municipalities & Emergency Services - Reconstruction of FLR Project - TGM
Attachments: 102.21.025 - FLR - Notice of Public Information Centre (PIC) - Notice - FINAL - May27-21.pdf;
102.21.025 - FLR - Notice of Public Information Centre (PIC) - Comment Form - FINAL - May27-21.pdf

Good morning, Upper/Lower Tier Municipalities & Emergency Services:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:47 AM
To: Solutions - Greenview
Subject: Notice of PIC - Adjacent Property Owners & Interested Parties - Reconstruction of FLR Project - TGM
Attachments: 102.21.025 - FLR - Notice of Public Information Centre (PIC) - Notice - FINAL - May27-21.pdf;
102.21.025 - FLR - Notice of Public Information Centre (PIC) - Comment Form - FINAL - May27-21.pdf

Good morning, Adjacent Property Owners and Interested Parties:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, as you had previously provided Greenview and the Township with your email address as part of the *Notice of Study Commencement* in June 2020. A copy of this submission will also be provided to you in hardcopy format, by mail.

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, you were provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:45 AM
To: Solutions - Greenview
Subject: Notice of PIC - Bell Canada & Hydro One Networks - Reconstruction of FLR Project - TGM (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Public Information Centre (PIC) - Notice - FINAL - May27-21.pdf;
102.21.025 - FLR - Notice of Public Information Centre (PIC) - Comment Form - FINAL - May27-21.pdf

Good morning, Bell Canada & Hydro One Networks:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:54 AM
To: bafn@nrtco.net
Cc: Solutions - Greenview; Orpana, Jon (MECP)
Subject: Notice of PIC - Bonnechere Algonquin First Nation - Reconstruction of FLR Project - TGM (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Public Information Centre (PIC) - Notice - FINAL - May27-21.pdf;
102.21.025 - FLR - Notice of Public Information Centre (PIC) - Comment Form - FINAL - May27-21.pdf

Good morning, Bonnechere Algonquin First Nation:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:55 AM
To: EmilyW@curvelake.ca; GeneralManager@curvelake.ca
Cc: Solutions - Greenview; Orpana, Jon (MECP)
Subject: Notice of PIC - Curve Lake First Nation - Reconstruction of FLR Project - TGM (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Public Information Centre (PIC) - Notice - FINAL - May27-21.pdf;
102.21.025 - FLR - Notice of Public Information Centre (PIC) - Comment Form - FINAL -
May27-21.pdf

Good morning, Curve Lake First Nation:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:57 AM
To: chiefcarr@hiawathafn.ca; info@hiawathafn.ca
Cc: Solutions - Greenview; Orpana, Jon (MECP)
Subject: Notice of PIC - Hiawatha First Nation - Reconstruction of FLR Project - TGM (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Public Information Centre (PIC) - Notice - FINAL - May27-21.pdf;
102.21.025 - FLR - Notice of Public Information Centre (PIC) - Comment Form - FINAL -
May27-21.pdf

Good morning, Hiawatha First Nation:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, for your consideration, as part of the requirements of the *Schedule B Municipal Class Environmental Assessment* for the project. A copy of this submission will also be provided to you in hardcopy format, by mail.

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, your office was provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:58 AM
To: mno@metisnation.org
Cc: Solutions - Greenview; Orpana, Jon (MECP)
Subject: Notice of PIC - Metis Nation of Ontario - Reconstruction of FLR Project - TGM (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Public Information Centre (PIC) - Notice - FINAL - May27-21.pdf;
102.21.025 - FLR - Notice of Public Information Centre (PIC) - Comment Form - FINAL - May27-21.pdf

Good morning, Metis Nation of Ontario:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 11:00 AM
To: info@scugogfirstnation.com
Cc: Solutions - Greenview; Orpana, Jon (MECP)
Subject: Notice of PIC - Mississaugas of Scugog Island First Nation - Reconstruction of FLR - TGM (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Public Information Centre (PIC) - Notice - FINAL - May27-21.pdf;
102.21.025 - FLR - Notice of Public Information Centre (PIC) - Comment Form - FINAL - May27-21.pdf

Good morning, Mississaugas of Scugog Island First Nation:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 11:02 AM
To: k.a.sandy-mckenzie@rogers.com
Cc: Solutions - Greenview; Orpana, Jon (MECP)
Subject: Notice of PIC - Williams Treaties First Nation - Reconstruction of FLR Project - TGM (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Public Information Centre (PIC) - Notice - FINAL - May27-21.pdf;
102.21.025 - FLR - Notice of Public Information Centre (PIC) - Comment Form - FINAL - May27-21.pdf

Good morning, Williams Treaties First Nation:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:51 AM
To: dmowat@alderville.ca; jsmove@alderville.ca
Cc: Solutions - Greenview; Orpana, Jon (MECP)
Subject: Notice of PIC - Alderville First Nation - Reconstruction of FLR Project - TGM (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Public Information Centre (PIC) - Notice - FINAL - May27-21.pdf;
102.21.025 - FLR - Notice of Public Information Centre (PIC) - Comment Form - FINAL -
May27-21.pdf

Good morning, Alderville First Nation:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

This e-mail message (including attachments, if any) is confidential and may be privileged. Any unauthorized distribution or disclosure is prohibited. Disclosure to anyone other than the intended recipient does not constitute waiver of privilege. If you have received this e-mail in error, please notify us and delete it and any attachments from your computer system and records.

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:52 AM
To: algonquins@tanakiwin.com
Cc: Solutions - Greenview; Orpana, Jon (MECP)
Subject: Notice of PIC - Algonquins of Ontario - Reconstruction of FLR Project - TGM (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Public Information Centre (PIC) - Notice - FINAL - May27-21.pdf;
102.21.025 - FLR - Notice of Public Information Centre (PIC) - Comment Form - FINAL -
May27-21.pdf

Good morning, Algonquins of Ontario:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, for your consideration, as part of the requirements of the *Schedule B Municipal Class Environmental Assessment* for the project. A copy of this submission will also be provided to you in hardcopy format, by mail.

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, your office was provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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Dan Hagan (Greenview)

From: Kerry-Lynn Mohr <klmohr17@icloud.com>
Sent: Friday, May 28, 2021 11:23 AM
To: Solutions - Greenview
Cc: cao@greatermadawaska.com; Dave Mohr
Subject: Re: Ferguson Lake Road EA

Are you able to provide the below information previously requested below, prior the the public information meeting on the preferred alternative?

Thank you,

Kerry-Lynn

Sent from my iPhone

> On Jul 6, 2020, at 9:33 AM, Kerry-Lynn Mohr <klmohr17@icloud.com> wrote:

>

>

> Dear Mr. Hagan,

>

> My husband and I reside at 812 Ferguson Lake Road. We are very interested in the EA being conducted for our roadway. We wish to be involved in the EA process. Please keep us on the mailing list.

>

> Can you provide any information on the design speed, lane widths, shoulder widths and alignment options? We do have concerns with sight lines along the roadway and drainage.

>

> I have copied my neighbours on the email to ensure they are aware of the EA.

>

> Thank you,

>

> Kerry-Lynn Mohr

>

> Sent from my iPad

Dan Hagan (Greenview)

From: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Sent: Friday, May 28, 2021 10:58 AM
To: Dan Hagan (Greenview)
Subject: FW: Ferguson Lake Road PIC

From: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Sent: May 28, 2021 9:55 AM
To: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>; Solutions - Greenview <solutions@greenview-environmental.ca>
Cc: Brett Kidd <BKidd@countyofrenfrew.on.ca>; Lee Perkins <LPerkins@countyofrenfrew.on.ca>
Subject: Ferguson Lake Road PIC

Good morning,

We are interested in attending the PIC for the Reconstruction of Ferguson Lake Road Project, please provide link or joining information when you have opportunity.

Thanks,

Taylor Hanrath
Acting Manager of Infrastructure

Department of Public Works & Engineering
9 International Drive
Pembroke, ON K8A 6W5
Phone: 613-732-4353 x457



The information in this email and any accompanying document(s) are intended solely for the addressee(s) named, and is confidential. Any other distribution, disclosure or copying is strictly prohibited. If you have received this communication in error, please reply by email to the sender and delete or destroy all copies of this message with all attached document(s).

Ce courriel peut faire état d'information privilégiée ou confidentielle destinée à une personne ou à une entité nommée dans ce message. Dans l'éventualité où le lecteur de ce message n'est pas le récipiendaire visé ou l'agent responsable de le faire suivre au récipiendaire visé, vous êtes par la présente avisé que toute revue, diffusion, distribution ou reproduction de cette communication est interdite. Si cette communication a été reçue par erreur, veuillez nous en aviser par réponse de courriel et supprimer le message original et tous documents ci-joints.

Dan Hagan (Greenview)

From: St-Louis, Mathieu <mathieu.stlouis@bell.ca>
Sent: Friday, May 28, 2021 2:01 PM
To: Dan Hagan (Greenview); Solutions - Greenview
Subject: RE: Notice of PIC - Bell Canada & Hydro One Networks - Reconstruction of FLR Project - TGM (102.21.025)
Attachments: 102.21.02Bell Canada 5 - FLR - Notice of Public Information Centre (PIC) - Comment Form - FINAL - May27-21.pdf

Hi Dan, Tyler,
See attached.
Thanks

Mathieu St Louis
Specialist, Network Provisioning
Renfrew, ON
613-432-0396
mathieu.stlouis@bell.ca



From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Sent: May-28-21 9:45 AM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: [EXT]Notice of Public Information Centre - Bell Canada & Hydro One Networks - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Good morning, Bell Canada & Hydro One Networks:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, for your consideration, as part of the requirements of the *Schedule B Municipal Class Environmental Assessment* for the project. A copy of this submission will also be provided to you in hardcopy format, by mail (if mailing address information for your office is known).

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, your office was provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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External Email: Please use caution when opening links and attachments / Courriel externe: Soyez prudent avec les liens et documents joints

Project Comment Form

**Re: Notice of Public Information Centre
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.21.025**

Please refer to the provided information and Notice of Public Information Centre associated with the above-noted project.

Name: Mathieu St Louis
Agency (if applicable): Bell Canada
Address: 176 Argyle St S Renfrew ON K7V 1T5
Email: mathieu.stlouis@bell.ca

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☒ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☐ I/We wish to be involved further in the project as noted below:

Mathieu St Louis

Signature

Please return this completed form by **June 29, 2021** to:

Mr. Tyler Peters, P. Eng.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Dan Hagan (Greenview)

From: Kerry-Lynn Mohr <klmohr17@icloud.com>
Sent: Friday, May 28, 2021 11:09 AM
To: Solutions - Greenview
Cc: Dave Mohr; cao@greatermadawaska.com
Subject: Re: Notice of PIC - Adjacent Property Owners & Interested Parties - Reconstruction of FLR Project - TGM (102.21.025)

Hello,

I am interested in attending the public consultation for the EA for Ferguson Lake Road. Will a link to the virtual event be provided by email?

Thank you,

Kerry-Lynn Mohr

Sent from my iPhone

On May 28, 2021, at 9:46 AM, Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca> wrote:

Good morning, Adjacent Property Owners and Interested Parties:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, as you had previously provided Greenview and the Township with your email address as part of the *Notice of Study Commencement* in June 2020. A copy of this submission will also be provided to you in hardcopy format, by mail.

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, you were provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist

<image001.png>

613.332.0057 x 105

www.greenview-environmental.ca

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<102.21.025 - FLR - Notice of Public Information Centre (PIC) - Notice - FINAL - May27-21.pdf>

<102.21.025 - FLR - Notice of Public Information Centre (PIC) - Comment Form - FINAL - May27-21.pdf>

Dan Hagan (Greenview)

From: St-Louis, Mathieu <mathieu.stlouis@bell.ca>
Sent: Friday, May 28, 2021 3:34 PM
To: Dan Hagan (Greenview); Solutions - Greenview
Cc: Tyler Peters (Greenview)
Subject: Notice of PIC - Bell Canada & Hydro One Networks - Reconstruction of FLR Project-(102.21.025)

Yes, as these are Hydro owned poles, Bell would be looking at transferring to new poles.

Mathieu St Louis
Specialist, Network Provisioning
Renfrew, ON
613-432-0396
mathieu.stlouis@bell.ca



From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Sent: May-28-21 1:12 PM
To: St-Louis, Mathieu <mathieu.stlouis@bell.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Cc: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Subject: [EXT]RE: Notice of Public Information Centre - Bell Canada & Hydro One Networks - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Thanks, Mathieu –

Once the PIC is completed and we transition to finalize the MCEA process with the Project File Report, our expectation is that we will be proceeding with Detailed Design. At that point we will have more information to share with you regarding pole/infrastructure relocations. My sense is that you'd be most interested at that stage of the project, correct?

Have a great Friday –

Dan.

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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From: St-Louis, Mathieu <mathieu.stlouis@bell.ca>
Sent: Friday, May 28, 2021 1:01 PM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>

environmental.ca>

Subject: RE: Notice of Public Information Centre - Bell Canada & Hydro One Networks - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Hi Dan, Tyler,
See attached.
Thanks

Mathieu St Louis
Specialist, Network Provisioning
Renfrew, ON
613-432-0396
mathieu.stlouis@bell.ca



From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Sent: May-28-21 9:45 AM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: [EXT]Notice of Public Information Centre - Bell Canada & Hydro One Networks - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Good morning, Bell Canada & Hydro One Networks:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



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External Email: Please use caution when opening links and attachments / **Courriel externe:** Soyez prudent avec les liens et documents joints

External Email: Please use caution when opening links and attachments / **Courriel externe:** Soyez prudent avec les liens et documents joints

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Monday, May 31, 2021 11:56 AM
To: klmohr17@icloud.com
Cc: mohr812@mail.com; Allison Holtzhauer (TGM); Solutions - Greenview
Subject: RE: Public Information Center (PIC) - Reconstruction of Ferguson Lake Road Project - TGM (102.21.025)

Good morning, Ms. Mohr –

Thank you for your interest in the Public Information Centre (PIC) event scheduled for 7:00pm on Tuesday June 15, 2021, with respect to the Reconstruction of Ferguson Lake Road Project and the Schedule B Municipal Class Environmental Assessment (MCEA) process.

We have noted your interest in attending the event, and we will provide you with a meeting link to the PIC in advance of the event day.

With respect to your specific questions on road design, we note that some of these items will be included in the PIC event; however, we also note that the intent of the PIC is to review the steps that were undertaken as part of the Schedule B MCEA process, the review of various design alternatives for the project, and the initial determination of the Preferred Alternative as identified by Municipal Council. Detailed design for the Reconstruction of Ferguson Lake Road Project will occur following the completion of the Schedule B MCEA process later this year.

Again, thank you for your interest in this very important project for the Township of Greater Madawaska and we look forward to your attendance at the PIC on June 15th.

Have a great day -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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-----Original Message-----

From: Kerry-Lynn Mohr <klmohr17@icloud.com>

Sent: May 28, 2021 10:23 AM

To: solutions@greenview-environmental.ca

Cc: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>; Dave Mohr <mohr812@mail.com>

Subject: Re: Ferguson Lake Road EA

Are you able to provide the below information previously requested below, prior the the public information meeting on the preferred alternative?

Thank you,

Kerry-Lynn

Sent from my iPhone

> On Jul 6, 2020, at 9:33 AM, Kerry-Lynn Mohr <klmohr17@icloud.com> wrote:

>

>

> Dear Mr. Hagan,

>

> My husband and I reside at 812 Ferguson Lake Road. We are very interested in the EA being conducted for our roadway. We wish to be involved in the EA process. Please keep us on the mailing list.

>

> Can you provide any information on the design speed, lane widths, shoulder widths and alignment options? We do have concerns with sight lines along the roadway and drainage.

>

> I have copied my neighbours on the email to ensure they are aware of the EA.

>

> Thank you,

>

> Kerry-Lynn Mohr

>

> Sent from my iPad

Dan Hagan (Greenview)

From: Kerry-Lynn Mohr <klmohr17@icloud.com>
Sent: Monday, May 31, 2021 12:03 PM
To: Dan Hagan (Greenview)
Cc: mohr812@mail.com; Allison Holtzhauer (TGM); Solutions - Greenview
Subject: Re: Public Information Center (PIC) - Reconstruction of Ferguson Lake Road Project - TGM (102.21.025)

I am surprised that council has already identified a preferred alternative when there has been no public consultation. Did I miss the consultation period?

Can you share with me any speed and volume data collected for the roadway and the past five years of collision history?

Thank you

Sent from my iPhone

On May 31, 2021, at 10:55 AM, Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca> wrote:

Good morning, Ms. Mohr –

Thank you for your interest in the Public Information Centre (PIC) event scheduled for 7:00pm on Tuesday June 15, 2021, with respect to the Reconstruction of Ferguson Lake Road Project and the Schedule B Municipal Class Environmental Assessment (MCEA) process.

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Again, thank you for your interest in this very important project for the Township of Greater Madawaska and we look forward to your attendance at the PIC on June 15th.

Have a great day -

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist

<image001.png>

613.332.0057 x 105
www.greenview-environmental.ca

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-----Original Message-----

From: Kerry-Lynn Mohr <klmohr17@icloud.com>

Sent: May 28, 2021 10:23 AM

To: solutions@greenview-environmental.ca

Cc: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>; Dave Mohr <mohr812@mail.com>

Subject: Re: Ferguson Lake Road EA

Are you able to provide the below information previously requested below, prior the the public information meeting on the preferred alternative?

Thank you,

Kerry-Lynn

Sent from my iPhone

> On Jul 6, 2020, at 9:33 AM, Kerry-Lynn Mohr <klmohr17@icloud.com> wrote:

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>

> I have copied my neighbours on the email to ensure they are aware of the EA.

>

> Thank you,

>

> Kerry-Lynn Mohr

>

> Sent from my iPad

Dan Hagan (Greenview)

From: Andrew Boyd <forestry99@gmail.com>
Sent: Monday, May 31, 2021 8:44 AM
To: Solutions - Greenview
Subject: Re. Notice of PIC - Adjacent Property Owners & Interested Parties - Reconstruction of FLR Project(102.21.025)
Attachments: Ferguson Lake Road reconstruction - project comment form (Andrew Boyd).pdf

Hello,

Attached please find my project comment form.

As you'll note, I own two properties along Ferguson Lake Road. My strong preference is to not lose area from either in relation to the planned reconstruction.

Thank you.

Andrew Boyd
613-838-5717

Project Comment Form

Re: Notice of Public Information Centre
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.21.025

Please refer to the provided information and Notice of Public Information Centre associated with the above-noted project.

Name: Anden Boyd
Agency (if applicable): _____
Address: 1098 Hidden Lane / Cor 4 Pt lots 28 & 29 (R376639)
Email: forestry99@gmail.com

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☒ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☐ I/We wish to be involved further in the project as noted below:

Hi, I'd like to have more info on how the planned reconstruction affects the two land parcels I own along Ferguson Lake Rd. In particular, any diminution in property areas. Thanks



Signature

Please return this completed form by June 29, 2021 to:

Mr. Tyler Peters, P. Eng.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Monday, May 31, 2021 11:45 AM
To: forestry99@gmail.com
Cc: Allison Holtzhauer (TGM); Solutions - Greenview
Subject: RE: Public Information Center (PIC) - Reconstruction of FLR Project - TGM (102.21.025)

Good morning, Mr. Boyd –

Thank you for your interest in the Public Information Centre (PIC) event scheduled for 7:00pm on Tuesday June 15, 2021, with respect to the Reconstruction of Ferguson Lake Road Project and the Schedule B Municipal Class Environmental Assessment (MCEA) process.

We have noted your interest in attending the event, and we will provide you with a meeting link to the PIC in advance of the event day.

Have a great day -

Sincerely,

Dan Hagan, P. Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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From: Andrew Boyd <forestry99@gmail.com>

Sent: May 31, 2021 7:44 AM

To: Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: Re. Notice of Public Information Centre - Adjacent Property Owners & Interested Parties - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Hello,

Attached please find my project comment form.

As you'll note, I own two properties along Ferguson Lake Road. My strong preference is to not lose area from either in relation to the planned reconstruction.

Thank you.

Andrew Boyd

613-838-5717

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Monday, May 31, 2021 11:42 AM
To: ed.j.tink@gmail.com
Cc: Allison Holtzhauer (TGM); Solutions - Greenview
Subject: RE: Public Information Center (PIC) - Reconstruction of Ferguson Lake Road Project - TGM (102.21.025)

Good morning, Mr. Tink –

Thank you for your interest in the Public Information Centre (PIC) event scheduled for 7:00pm on Tuesday June 15, 2021, with respect to the Reconstruction of Ferguson Lake Road Project and the Schedule B Municipal Class Environmental Assessment (MCEA) process.

We have noted your interest in attending the event, and we will provide you with a meeting link to the PIC in advance of the event day.

Have a great day -

Sincerely,

Dan Hagan, P.Geol.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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From: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Sent: Monday, May 31, 2021 8:52 AM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Subject: FW: Notice of Public Information Centre - Adjacent Property Owners & Interested Parties - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

From: Ed Tink <ed.j.tink@gmail.com>
Sent: May 29, 2021 5:54 PM
To: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Subject: Re: Notice of Public Information Centre - Adjacent Property Owners & Interested Parties - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Hi Allison,

Please include me in the Public Information Centre session.

Regards,

Ed Tink

From: "Dan Hagan (Greenview)" <dan.hagan@greenview-environmental.ca>

Date: May 28, 2021 at 9:46:53 AM EDT

To: Solutions - Greenview <solutions@greenview-environmental.ca>

**Subject: Notice of Public Information Centre - Adjacent Property Owners & Interested Parties
- Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska
(102.21.025)**

Good morning, Adjacent Property Owners and Interested Parties:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, as you had previously provided Greenview and the Township with your email address as part of the *Notice of Study Commencement* in June 2020. A copy of this submission will also be provided to you in hardcopy format, by mail.

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, you were provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Monday, May 31, 2021 11:42 AM
To: ed.j.tink@gmail.com
Cc: Allison Holtzhauer (TGM); Solutions - Greenview
Subject: RE: Public Information Center (PIC) - Reconstruction of Ferguson Lake Road Project - TGM (102.21.025)

Good morning, Mr. Tink –

Thank you for your interest in the Public Information Centre (PIC) event scheduled for 7:00pm on Tuesday June 15, 2021, with respect to the Reconstruction of Ferguson Lake Road Project and the Schedule B Municipal Class Environmental Assessment (MCEA) process.

We have noted your interest in attending the event, and we will provide you with a meeting link to the PIC in advance of the event day.

Have a great day -

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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From: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Sent: Monday, May 31, 2021 8:52 AM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Subject: FW: Notice of Public Information Centre - Adjacent Property Owners & Interested Parties - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

From: Ed Tink <ed.j.tink@gmail.com>
Sent: May 29, 2021 5:54 PM
To: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Subject: Re: Notice of Public Information Centre - Adjacent Property Owners & Interested Parties - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Hi Allison,

Please include me in the Public Information Centre session.

Regards,

Ed Tink

From: "Dan Hagan (Greenview)" <dan.hagan@greenview-environmental.ca>

Date: May 28, 2021 at 9:46:53 AM EDT

To: Solutions - Greenview <solutions@greenview-environmental.ca>

**Subject: Notice of Public Information Centre - Adjacent Property Owners & Interested Parties
- Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska
(102.21.025)**

Good morning, Adjacent Property Owners and Interested Parties:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, you were provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist

Dan Hagan (Greenview)

From: Robert Posteraro <rpostera35@hotmail.com>
Sent: Monday, May 31, 2021 2:23 PM
To: cao@greatermadawaska.com; Solutions - Greenview
Subject: Reconstruction of Ferguson Lake RoadProjectSchedule B-Municipal Class Environmental Assessment

Good Afternoon,

I was wondering about obtaining more information about the Ferguson Lake Road project and the details for the virtual public information centre session happening on June 15th. Thank you so much, it would be greatly appreciated.

Robert Posteraro

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Monday, May 31, 2021 3:00 PM
To: rpostera35@hotmail.com
Cc: Allison Holtzhauer (TGM); Solutions - Greenview
Subject: RE: Reconstruction of Ferguson Lake RoadProjectSchedule B-Municipal Class Environmental Assessment

Good afternoon, Mr. Posteraro –

Thank you for your interest in the Public Information Centre (PIC) event scheduled for 7:00pm on Tuesday June 15, 2021, with respect to the Reconstruction of Ferguson Lake Road Project and the Schedule B Municipal Class Environmental Assessment (MCEA) process.

We have noted your interest in attending the event, and we will provide you with a meeting link to the PIC in advance of the event day.

Have a great day -

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
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From: Robert Posteraro <rpostera35@hotmail.com>
Sent: May-31-21 1:23 PM
To: cao@greatermadawaska.com; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Reconstruction of Ferguson Lake RoadProjectSchedule B-Municipal Class Environmental Assessment

Good Afternoon,

I was wondering about obtaining more information about the Ferguson Lake Road project and the details for the virtual public information centre session happening on June 15th. Thank you so much, it would be greatly appreciated.

Robert Posteraro

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Monday, May 31, 2021 11:39 AM
To: THanrath@countyofrenfrew.on.ca
Cc: Allison Holtzhauer; Solutions - Greenview
Subject: RE: Public Information Center (PIC) - Reconstruction of Ferguson Lake Road Project - TGM (102.21.025)

Good morning, Taylor –

Thank you for your interest in the Public Information Centre (PIC) event scheduled for 7:00pm on Tuesday June 15, 2021, with respect to the Reconstruction of Ferguson Lake Road Project and the Schedule B Municipal Class Environmental Assessment (MCEA) process.

We have noted your interest in attending the event, and we will provide you with a meeting link to the PIC in advance of the event day.

Have a great day -

Sincerely,

Dan Hagan, P.Geol.
Senior Project Manager / Geologist



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From: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Sent: Friday, May 28, 2021 9:58 AM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Subject: FW: Ferguson Lake Road PIC

From: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Sent: May 28, 2021 9:55 AM
To: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>; Solutions - Greenview <solutions@greenview-environmental.ca>
Cc: Brett Kidd <BKidd@countyofrenfrew.on.ca>; Lee Perkins <LPerkins@countyofrenfrew.on.ca>
Subject: Ferguson Lake Road PIC

Good morning,

We are interested in attending the PIC for the Reconstruction of Ferguson Lake Road Project, please provide link or joining information when you have opportunity.

Thanks,

Taylor Hanrath
Acting Manager of Infrastructure

Department of Public Works & Engineering
9 International Drive
Pembroke, ON K8A 6W5
Phone: 613-732-4353 x457



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Tuesday, June 1, 2021 1:29 PM
To: Solutions - Greenview
Subject: FW: Participation in upcoming Ferguson Lake Rd info session

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



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From: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Sent: Tuesday, June 1, 2021 11:34 AM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Cc: Rod Paterson <rod56@gmail.com>
Subject: FW: Participation in upcoming Ferguson Lake Rd info session

Good Morning Dan,

Please see below a request from Mr. Paterson to attend the upcoming PIC.

Thanks,
Allison

From: Rod Paterson <rod56@gmail.com>
Sent: June 1, 2021 11:29 AM
To: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Subject: Participation in upcoming Ferguson Lake Rd info session

Hello Allison,

Thanks for returning my phone call this morning. As requested I am indicating my interest in attending the upcoming virtual information session.

Please provide the details for me to join the session.

Thanks!

Best regards - Rod Paterson

772 Ferguson Lake Rd
613-791-1997

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Tuesday, June 1, 2021 1:31 PM
To: Rod Paterson
Cc: Allison Holtzhauer (TGM); Solutions - Greenview
Subject: RE: Public Information Center (PIC) - Reconstruction of Ferguson Lake Road Project - TGM (102.21.025)

Good afternoon, Mr. Paterson –

Thank you for your interest in the Public Information Centre (PIC) event scheduled for 7:00pm on Tuesday June 15, 2021, with respect to the Reconstruction of Ferguson Lake Road Project and the Schedule B Municipal Class Environmental Assessment (MCEA) process.

We have noted your interest in attending the event, and we will provide you with a meeting link to the PIC in advance of the event day.

Have a great day -

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



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From: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Sent: Tuesday, June 1, 2021 11:34 AM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Cc: Rod Paterson <rodp56@gmail.com>
Subject: FW: Participation in upcoming Ferguson Lake Rd info session

Good Morning Dan,

Please see below a request from Mr. Paterson to attend the upcoming PIC.

Thanks,
Allison

From: Rod Paterson <rodp56@gmail.com>
Sent: June 1, 2021 11:29 AM
To: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Subject: Participation in upcoming Ferguson Lake Rd info session

Hello Allison,

Thanks for returning my phone call this morning. As requested I am indicating my interest in attending the upcoming virtual information session.

Please provide the details for me to join the session.

Thanks!

Best regards - Rod Paterson
772 Ferguson Lake Rd
613-791-1997

Dan Hagan (Greenview)

From: Marnie Peters <peters.marnie@gmail.com>
Sent: Tuesday, June 1, 2021 5:04 PM
To: Dan Hagan (Greenview); Solutions - Greenview
Subject: Re: Notice of PIC - Adjacent Property Owners & Interested Parties - Reconstruction of FLR Project - TGM (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Public Information Centre (PIC) - Comment Form - FINAL - May27-21_PETERS.pdf

Hi Dan

Please find attached my comments regarding the reconstruction of Ferguson Lake Rd. Renfrew.

Cheers
Marnie

On Fri, May 28, 2021 at 9:46 AM Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca> wrote:

Good morning, Adjacent Property Owners and Interested Parties:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, you were provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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--

Marnie Peters

www.AccessibilitySimplified.com



Dan Hagan (Greenview)

From: Marnie Peters <peters.marnie@gmail.com>
Sent: Tuesday, June 1, 2021 5:05 PM
To: Dan Hagan (Greenview); Solutions - Greenview; Allison Holtzhauer; Tyler Peters (Greenview)
Subject: Re: Notice of PIC - Adjacent Property Owners & Interested Parties - Reconstruction of FLR Project - TGM (102.21.025)

Hi Dan/Allison

We plan on participating in the meeting regarding Ferguson Lake Rd. on June 15, 2021.
Please send us the Zoom link when it becomes available

Thanks
Marnie

On Fri, May 28, 2021 at 9:46 AM Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca> wrote:

Good morning, Adjacent Property Owners and Interested Parties:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, you were provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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--

Marnie Peters

www.AccessibilitySimplified.com



Accessibility Simplified
ACCESSIBILITY CONSULTING

Project Comment Form

**Re: Notice of Public Information Centre
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.21.025**

Please refer to the provided information and Notice of Public Information Centre associated with the above-noted project.

Name: Marnie Peters

Agency (if applicable): _____

Address: 724 Ferguson Lake Rd, Renfrew, ON

Email: peters.marnie@gmail.com

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☒ I/We wish to be involved further in the project as noted below:

1. I am shocked to find out that the section of Ferguson Lake Rd that is in the WORST condition, is not being included in the reconstruction project at this time. The road has literally deteriorated for a length of approx. 1.5 km on the approach to/through the Hydro right of way. This is the section of road the reconstruction should focus on. The road is too narrow, has sharp blind corners, and the road is crumbling - and having a Township crew spot filling every week is not the solution.

2. Each time the road is reconstructed in some manner, it becomes higher - and then the end of my driveway needs to be raised causing (i). my driveway to be significantly lower in the middle than at the time of original purchase (ii) the hydro line that crosses at the end of my driveway at the road, to have significantly less clearance than previously, to the point that it has become difficult to have large trucks maneuver into the driveway for deliveries. The project team should negotiate with Hydro One to have this wire raised to provide clearance (as was available at the time of my construction 12 years ago.)

Marnie Peters

Signature

Please return this completed form by **June 29, 2021** to:

**Mr. Tyler Peters, P. Eng.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057**

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Tuesday, June 1, 2021 3:30 PM
To: Kerry-Lynn Mohr
Cc: mohr812@mail.com; Allison Holtzhauer (TGM); Solutions - Greenview
Subject: RE: Public Information Center (PIC) - Reconstruction of FLR Project - TGM (102.21.025)

Good afternoon, Ms. Mohr:

Thank you for your email.

The planning aspects of this project are being undertaken in accordance with the *Municipal Class Environmental Assessment* (MCEA) process, as a Schedule B undertaking. The upcoming PIC has been scheduled to gather input from interested parties on the Township's initial *Preferred Alternative* for the project, to address existing issues with the identified portion of Ferguson Lake Road. Comments received before, during, and after the Public Information Centre (PIC) will be considered in the process, prior to confirming the *Preferred Alternative*.

Regarding background information and studies, all available and relevant information will be uploaded to the Township website prior to the PIC, and presented as part of the PIC. We are working on these aspects currently.

Sincerely,

Dan Hagan, P. Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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From: Kerry-Lynn Mohr <klmohr17@icloud.com>

Sent: Monday, May 31, 2021 11:03 AM

To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>

Cc: mohr812@mail.com; Allison Holtzhauer (TGM) <aholtzhauer@greatermadawaska.com>; Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: Re: Public Information Center (PIC) - Reconstruction of Ferguson Lake Road Project - TGM (102.21.025)

I am surprised that council has already identified a preferred alternative when there has been no public consultation. Did I miss the consultation period?

Can you share with me any speed and volume data collected for the roadway and the past five years of collision history?

Thank you

Sent from my iPhone

On May 31, 2021, at 10:55 AM, Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca> wrote:

Good morning, Ms. Mohr –

Thank you for your interest in the Public Information Centre (PIC) event scheduled for 7:00pm on Tuesday June 15, 2021, with respect to the Reconstruction of Ferguson Lake Road Project and the Schedule B Municipal Class Environmental Assessment (MCEA) process.

We have noted your interest in attending the event, and we will provide you with a meeting link to the PIC in advance of the event day.

With respect to your specific questions on road design, we note that some of these items will be included in the PIC event; however, we also note that the intent of the PIC is to review the steps that were undertaken as part of the Schedule B MCEA process, the review of various design alternatives for the project, and the initial determination of the Preferred Alternative as identified by Municipal Council. Detailed design for the Reconstruction of Ferguson Lake Road Project will occur following the completion of the Schedule B MCEA process later this year.

Again, thank you for your interest in this very important project for the Township of Greater Madawaska and we look forward to your attendance at the PIC on June 15th.

Have a great day -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist

<image001.png>

613.332.0057 x 105

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-----Original Message-----

From: Kerry-Lynn Mohr <klmohr17@icloud.com>

Sent: May 28, 2021 10:23 AM

To: solutions@greenview-environmental.ca

Cc: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>; Dave Mohr <mohr812@mail.com>

Subject: Re: Ferguson Lake Road EA

Are you able to provide the below information previously requested below, prior the the public information meeting on the preferred alternative?

Thank you,

Kerry-Lynn

Sent from my iPhone

> On Jul 6, 2020, at 9:33 AM, Kerry-Lynn Mohr <klmohr17@icloud.com> wrote:

>

>

> Dear Mr. Hagan,

>

> My husband and I reside at 812 Ferguson Lake Road. We are very interested in the EA being conducted for our roadway. We wish to be involved in the EA process. Please keep us on the mailing list.

>

> Can you provide any information on the design speed, lane widths, shoulder widths and alignment options? We do have concerns with sight lines along the roadway and drainage.

>

> I have copied my neighbours on the email to ensure they are aware of the EA.

>

> Thank you,

>

> Kerry-Lynn Mohr

>

> Sent from my iPad

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Wednesday, June 2, 2021 12:40 PM
To: Kaitlyn.Sarles@opp.ca
Cc: Allison Holtzhauer (TGM); Solutions - Greenview
Subject: RE: Public Information Center (PIC) - Reconstruction of Ferguson Lake Road Project - TGM (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Public Information Centre (PIC) - Notice - FINAL - May27-21.pdf;
102.21.025 - FLR - Notice of Public Information Centre (PIC) - Comment Form - FINAL - May27-21.pdf

Good afternoon, Ms. Sarles,
Detachment Admin Clerk, OPP Renfrew Detachment –

Thank you for your response re: the Notice of Public Information Centre and the Public Information Centre (PIC) event scheduled for 7:00pm on Tuesday June 15, 2021, with respect to the Reconstruction of Ferguson Lake Road Project and the Schedule B Municipal Class Environmental Assessment (MCEA) process.

Per your request, please find the attached electronic versions of the Notice and the Comment Form, for your consideration. If the OPP Renfrew Detachment would like to comment on the proposed project, we would certainly appreciate any comments you may have.

We will also update our contact list with your contact details.

If anyone from the OPP Renfrew Detachment would be interested in attending the virtual event, we can provide you with a meeting link to the PIC in advance of the event day, at your direction.

Many thanks in advance for your time -

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



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From: Sarles, Kaitlyn (OPP) <Kaitlyn.Sarles@opp.ca>
Sent: June-02-21 10:48 AM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Reconstruction of Ferguson Lake Road Project (Greenview File: 102.21.025)

Good Morning,

We have received a Notice of Public Information Centre along with a Project Comment Form for the above noted project, is this something you would like Renfrew Detachments comment on? If so please forward it electronically if possible and I ensure we provide you with a response.

Best Regards,

KAITLYN SARLES – Detachment Admin Clerk

OPP – Renfrew Detachment

410 O'Brien Road

Renfrew Ontario

Phone: 613-432-3211



Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Wednesday, June 2, 2021 4:02 PM
To: Marnie Peters
Cc: Allison Holtzhauer (TGM); Solutions - Greenview
Subject: Notice of PIC - Adjacent Property Owners & Interested Parties - Reconstruction of FLR Project

Good afternoon, Ms. Peters –

Thank you for your interest in the Public Information Centre (PIC) event scheduled for 7:00pm on Tuesday June 15, 2021, with respect to the Reconstruction of Ferguson Lake Road Project and the Schedule B Municipal Class Environmental Assessment (MCEA) process.

We have noted your interest in attending the event, and we will provide you with a meeting link to the PIC in advance of the event day.

With respect to your specific comments on the *Project Comment Form*, we note the following:

1. As you point out, there are areas of Ferguson Lake Road that are in need of repair/reconstruction that exist outside of the project area. Unfortunately, the funding for this project from the Federal and Provincial governments is specifically for the section of Ferguson Lake Road identified in the *Notice of Public Information Centre*, from approximately Campground Side Road to Kennelly Mountain Road. It is not permitted to use the funding received from the Federal and Provincial governments for sections of Ferguson Lake Road outside of this specific area. We trust you understand the limitations of the funding agreement.
2. With respect to your note about the elevation of your driveway entrance and historical road reconstruction operations, as part of the detailed design stage of the project (which is to occur following completion of the Schedule B Municipal Class Environmental Assessment process) and during construction, all entrances along Ferguson Lake Road (within the project area) will be considered. Similarly, the Township, Greenview, Hydro One, and Bell are working together throughout this project on utility pole locations/relocations that may need to be addressed as part of the reconstruction operations, and determination on next steps regarding utility poles will be addressed at the detailed design stage of the project.

Again, thank you for your interest in this very important project for the Township of Greater Madawaska and we look forward to your attendance at the PIC on June 15th.

Have a great day -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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From: Marnie Peters <peters.marnie@gmail.com>
Sent: Tuesday, June 1, 2021 4:04 PM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-

environmental.ca>

Subject: Re: Notice of Public Information Centre - Adjacent Property Owners & Interested Parties - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Hi Dan

Please find attached my comments regarding the reconstruction of Ferguson Lake Rd. Renfrew.

Cheers
Marnie

On Fri, May 28, 2021 at 9:46 AM Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca> wrote:

Good morning, Adjacent Property Owners and Interested Parties:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, as you had previously provided Greenview and the Township with your email address as part of the *Notice of Study Commencement* in June 2020. A copy of this submission will also be provided to you in hardcopy format, by mail.

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, you were provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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--

Marnie Peters

www.AccessibilitySimplified.com



Dan Hagan (Greenview)

From: Michael Thompson <uptohere@hotmail.com>
Sent: Wednesday, June 2, 2021 7:51 PM
To: Solutions - Greenview
Subject: Reconstruction of Ferguson Lake Road Project

Hello,

Could you please add me to the invite list for the virtual public information centre regarding the reconstruction of Ferguson lake road project. Would you also be able to provide drawings of road construction indicating existing and new elevations and alignment?

Thanks

Mike Thompson

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, June 3, 2021 9:08 AM
To: uptohere@hotmail.com
Cc: Allison Holtzhauer (TGM); Solutions - Greenview
Subject: RE: Public Information Center (PIC) - Reconstruction of Ferguson Lake Road Project - TGM (102.21.025)

Good morning, Mr. Thompson:

Thank you for your interest in the Public Information Centre (PIC) event scheduled for 7:00pm on Tuesday June 15, 2021, with respect to the Reconstruction of Ferguson Lake Road Project and the Schedule B Municipal Class Environmental Assessment (MCEA) process.

We have noted your interest in attending the event, and we will provide you with a meeting link to the PIC in advance of the event day.

The planning aspects of this project are being undertaken in accordance with the *Municipal Class Environmental Assessment* (MCEA) process, as a Schedule B undertaking. The upcoming PIC has been scheduled to gather input from interested parties on the Township's initial *Preferred Alternative* for the project, to address existing issues with the identified portion of Ferguson Lake Road. Comments received before, during, and after the Public Information Centre (PIC) will be considered in the process, prior to confirming the *Preferred Alternative*.

Regarding background information and studies, all available and relevant information will be uploaded to the Township website prior to the PIC, and presented as part of the PIC. We are working on these aspects currently.

Have a great day -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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From: Michael Thompson <uptohere@hotmail.com>
Sent: June-02-21 6:51 PM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Reconstruction of Ferguson Lake Road Project

Hello,

Could you please add me to the invite list for the virtual public information centre regarding the reconstruction of Ferguson lake road project. Would you also be able to provide drawings of road construction indicating existing and new elevations and alignment?

Thanks

Mike Thompson

Dan Hagan (Greenview)

From: P mountainridge <mountainridge1422@hotmail.com>
Sent: Thursday, June 3, 2021 11:50 AM
To: Solutions - Greenview
Cc: cao@greatermadawaska.com
Subject: Reconstruction of Ferguson Lake Road Project

Dear Mr. Peters

I received this morning the "Notice of Public Information Centre" regarding the reconstruction of the Ferguson Lake Project.

In the couple of pages you sent me is included a tiny map, which apparently is meant to show the proposed suitable alternative to reconstruct the road.

I don't know how you expect me to comment on a project which directly effects me, having basically included no information in your letter. The map and flyer give no information about the proposed road and it's construction.

As a tax payer and property owner I am appalled at the lack of information. I am quite sure Greater Madawaska tax payers are paying a significant amount for the engineering fees on this report.

I expect a full description and explanation regarding this project.

Primrose Blair

Sent from my iPhone

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, June 3, 2021 12:19 PM
To: mountainridge1422@hotmail.com
Cc: Allison Holtzhauer (TGM); Solutions - Greenview
Subject: RE: Public Information Center (PIC) - Reconstruction of Ferguson Lake Road Project - TGM (102.21.025)

Good afternoon, Primrose Blair:

Thank you for your email and interest in the Public Information Centre (PIC) event scheduled for 7:00pm on Tuesday June 15, 2021, with respect to the Reconstruction of Ferguson Lake Road Project and the Schedule B Municipal Class Environmental Assessment (MCEA) process.

We have noted your interest in attending the event, and we will provide you with a meeting link to the PIC in advance of the event day.

The planning aspects of this project are being undertaken in accordance with the *Municipal Class Environmental Assessment* (MCEA) process, as a Schedule B undertaking. The upcoming PIC has been scheduled to gather input from interested parties on the Township's initial *Preferred Alternative* for the project, to address existing issues with the identified portion of Ferguson Lake Road. Comments received before, during, and after the Public Information Centre (PIC) will be considered in the process, prior to confirming the *Preferred Alternative*.

With respect to your specific questions on road design, we note that some of these items will be included in the PIC event; however, we also note that the intent of the PIC is to review the steps that were undertaken as part of the Schedule B MCEA process, the review of various design alternatives for the project, and the initial determination of the Preferred Alternative as identified by Municipal Council. Detailed design for the Reconstruction of Ferguson Lake Road Project will occur following the completion of the Schedule B MCEA process later this year.

Further to your note regarding the "key map" on the *Notice of Public Information Centre*, that key map was included to show the study area of the project. The key map is not designed to show the initial *Preferred Alternative* of the road reconstruction project, or any of the alternatives reviewed as part of the Schedule B MCEA process.

Regarding background information and studies, all available and relevant information will be uploaded to the Township website prior to the PIC, and presented as part of the PIC. We are working on these aspects currently.

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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-----Original Message-----

From: P mountainridge <mountainridge1422@hotmail.com>

Sent: June-03-21 10:50 AM

To: Solutions - Greenview <solutions@greenview-environmental.ca>

Cc: cao@greatermadawaska.com

Subject: Reconstruction of Ferguson Lake Road Project

Dear Mr. Peters

I received this morning the "Notice of Public Information Centre" regarding the reconstruction of the Ferguson Lake Project.

In the couple of pages you sent me is included a tiny map, which apparently is meant to show the proposed suitable alternative to reconstruct the road.

I don't know how you expect me to comment on a project which directly effects me, having basically included no information in your letter. The map and flyer give no information about the proposed road and it's construction.

As a tax payer and property owner I am appalled at the lack of information. I am quite sure Greater Madawaska tax payers are paying a significant amount for the engineering fees on this report.

I expect a full description and explanation regarding this project.

Primrose Blair

Sent from my iPhone

Dan Hagan (Greenview)

From: Sarles, Kaitlyn (OPP) <Kaitlyn.Sarles@opp.ca>
Sent: Wednesday, June 2, 2021 11:48 AM
To: Solutions - Greenview
Subject: Reconstruction of Ferguson Lake Road Project (Greenview File: 102.21.025)

Good Morning,

We have received a Notice of Public Information Centre along with a Project Comment Form for the above noted project, is this something you would like Renfrew Detachments comment on? If so please forward it electronically if possible and I ensure we provide you with a response.

Best Regards,

KAITLYN SARLES – Detachment Admin Clerk
OPP – Renfrew Detachment

410 O'Brien Road
Renfrew Ontario
Phone: 613-432-3211



Dan Hagan (Greenview)

From: Hatcher, Laura (MHSTCI) <Laura.E.Hatcher@ontario.ca>
Sent: Wednesday, June 2, 2021 2:19 PM
To: Solutions - Greenview; Dan Hagan (Greenview)
Subject: File 0012627: Notice of PIC - Provincial Agencies & Authorities - Reconstruction of FLR Project - TGM(102.21.025)

Good afternoon,

Thank you for sharing the notice of PIC. I would like to advise that I am the new contact for this project for the Ministry of Heritage, Sport, Tourism and Culture Industries. Please remove Kim Livingstone from your contact list as she is no longer working at MHSTCI.

Would you be able to send the PIC materials to me once they are ready?

I was also wondering if you have a status update on any technical cultural heritage studies that are being prepared for this project.

Many thanks,
Laura

Laura Hatcher, MCIP, RPP

Heritage Planner

Heritage Planning Unit | Programs and Services Branch | Heritage, Tourism and Culture Division

Ministry of Heritage, Sport, Tourism and Culture Industries

401 Bay Street Suite 1700 Toronto ON M7A 0A7

Tel. 437-239-3404 **New** | email: laura.e.hatcher@ontario.ca

From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Sent: May-28-21 9:44 AM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Notice of Public Information Centre - Provincial Agencies & Authorities - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Good morning, Provincial Agencies & Authorities:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, for your consideration, as part of the requirements of the *Schedule B Municipal Class Environmental Assessment* for the project. A copy of this submission will also be provided to you in hardcopy format, by mail (if mailing address information for your office is known).

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, your office was provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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Dan Hagan (Greenview)

From: Marnie Peters <peters.marnie@gmail.com>
Sent: Thursday, June 3, 2021 12:44 PM
To: Dan Hagan (Greenview)
Cc: Allison Holtzhauer (TGM); Solutions - Greenview
Subject: Notice of PIC - Adjacent Property Owners & Interested Parties - Reconstruction of FLR Project

Hi Dan

1. Are you able to provide the 30% Functional Design for public review prior to the meeting. It would be helpful in understanding what is intended for this specific stretch of road.
2. Obviously this area has seen increased development and there are many more people out walking on a daily basis - but the section of road in front of our place (724) was rebuilt only a few years ago, including widening. Along with widening and straightening, the cars are now travelling at much higher speeds than previously when the road had more slight curves - so there have been negative consequences to the road improvements as well as positive outcomes (such as better sightlines for and of pedestrians who are walking)

thanks again
Marnie

On Wed, Jun 2, 2021 at 3:01 PM Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca> wrote:

Good afternoon, Ms. Peters –

Thank you for your interest in the Public Information Centre (PIC) event scheduled for 7:00pm on Tuesday June 15, 2021, with respect to the Reconstruction of Ferguson Lake Road Project and the Schedule B Municipal Class Environmental Assessment (MCEA) process.

We have noted your interest in attending the event, and we will provide you with a meeting link to the PIC in advance of the event day.

With respect to you specific comments on the *Project Comment Form*, we note the following:

1. As you point out, there are areas of Ferguson Lake Road that are in need of repair/reconstruction that exist outside of the project area. Unfortunately, the funding for this project from the Federal and Provincial governments is specifically for the section of Ferguson Lake Road identified in the *Notice of Public Information Centre*, from approximately Campground Side Road to Kennelly Mountain Road. It is not permitted to use the funding received from the Federal and Provincial governments for sections of Ferguson Lake Road outside of this specific area. We trust you understand the limitations of the funding agreement.

2. With respect to your note about the elevation of your driveway entrance and historical road reconstruction operations, as part of the detailed design stage of the project (which is to occur following completion of the Schedule B Municipal Class Environmental Assessment process) and during construction, all entrances along Ferguson Lake Road (within the project area) will be considered. Similarly, the Township, Greenview, Hydro One, and Bell are working together throughout this project on utility pole locations/relocations that may need to be addressed as part of the reconstruction operations, and determination on next steps regarding utility poles will be addressed at the detailed design stage of the project.

Again, thank you for your interest in this very important project for the Township of Greater Madawaska and we look forward to your attendance at the PIC on June 15th.

Have a great day -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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From: Marnie Peters <peters.marnie@gmail.com>

Sent: Tuesday, June 1, 2021 4:04 PM

To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: Re: Notice of Public Information Centre - Adjacent Property Owners & Interested Parties - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Hi Dan

Please find attached my comments regarding the reconstruction of Ferguson Lake Rd. Renfrew.

Cheers

Marnie

On Fri, May 28, 2021 at 9:46 AM Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca> wrote:

Good morning, Adjacent Property Owners and Interested Parties:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, as you had previously provided Greenview and the Township with your email address as part of the *Notice of Study Commencement* in June 2020. A copy of this submission will also be provided to you in hardcopy format, by mail.

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, you were provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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--

Marnie Peters

www.AccessibilitySimplified.com



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Marnie Peters

www.AccessibilitySimplified.com



Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, June 4, 2021 11:25 AM
To: Marnie Peters
Cc: Allison Holtzhauer (TGM); Solutions - Greenview
Subject: Notice of PIC - Adjacent Property Owners & Interested Parties - Recons. of FLR Project

Dear Ms. Peters:

Further to your questions, please accept the following responses in advance of the PIC event scheduled for June 15th, 2021:

1. Regarding background information and studies, all available and relevant information will be uploaded to the Township website prior to the PIC, and presented as part of the PIC. We are working on these aspects currently.
2. With respect to your comments on the existing road conditions adjacent to your house, we note that for all reconstruction activities for the project, Greenview and the Township have been and will continue to evaluate all options, and all net effects related to each alternative have/will be considered (including the factors you have identified in your email below), in general accordance with the Transportation Association of Canada (TAC) *Geometric Design Guide for Canadian Roads* and the various studies completed as part of the Schedule B Municipal Class Environmental Assessment (MCEA) process.

In accordance with the funding agreement for the project, the reconstruction of Ferguson Lake Road within the project area is to include paving of the road with hot mix asphalt (HL4), with lane widths of 3.3 m (both directions). Paved shoulders of 0.5 m, followed by 0.5 m gravel shoulders, are to be installed on either side of the road, to better facilitate active transportation (i.e. pedestrians, bikes, etc.).

The alternatives reviewed as part of the Schedule B MCEA process included design speeds of 90 km/hr per TAC, 60 km/hr per TAC, a split 60 & 70 km/hr design speed per site specific modifications, and 60 km/hr design speed per site-specific modifications.

We intend to review these factors noted above as well as other pertinent information relative to the Schedule B MCEA process at the June 15th, 2021 PIC. We look forward to your attendance at the PIC where more information will be presented to all stakeholders.

Sincerely,

Dan Hagan, P.Geol.
Senior Project Manager / Geologist



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From: Marnie Peters <peters.marnie@gmail.com>
Sent: Thursday, June 3, 2021 11:44 AM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Cc: Allison Holtzhauer (TGM) <aholtzhauer@greatermadawaska.com>; Solutions - Greenview <solutions@greenview-

environmental.ca>

Subject: Re: Notice of Public Information Centre - Adjacent Property Owners & Interested Parties - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Hi Dan

1. Are you able to provide the 30% Functional Design for public review prior to the meeting. It would be helpful in understanding what is intended for this specific stretch of road.
2. Obviously this area has seen increased development and there are many more people out walking on a daily basis - but the section of road in front of our place (724) was rebuilt only a few years ago, including widening. Along with widening and straightening, the cars are now travelling at much higher speeds than previously when the road had more slight curves - so there have been negative consequences to the road improvements as well as positive outcomes (such as better sightlines for and of pedestrians who are walking)

thanks again
Marnie

On Wed, Jun 2, 2021 at 3:01 PM Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca> wrote:

Good afternoon, Ms. Peters –

Thank you for your interest in the Public Information Centre (PIC) event scheduled for 7:00pm on Tuesday June 15, 2021, with respect to the Reconstruction of Ferguson Lake Road Project and the Schedule B Municipal Class Environmental Assessment (MCEA) process.

We have noted your interest in attending the event, and we will provide you with a meeting link to the PIC in advance of the event day.

With respect to you specific comments on the *Project Comment Form*, we note the following:

1. As you point out, there are areas of Ferguson Lake Road that are in need of repair/reconstruction that exist outside of the project area. Unfortunately, the funding for this project from the Federal and Provincial governments is specifically for the section of Ferguson Lake Road identified in the *Notice of Public Information Centre*, from approximately Campground Side Road to Kennelly Mountain Road. It is not permitted to use the funding received from the Federal and Provincial governments for sections of Ferguson Lake Road outside of this specific area. We trust you understand the limitations of the funding agreement.
2. With respect to your note about the elevation of your driveway entrance and historical road reconstruction operations, as part of the detailed design stage of the project (which is to occur following completion of the Schedule B Municipal Class Environmental Assessment process) and during construction, all entrances along Ferguson Lake Road (within the project area) will be considered. Similarly, the Township, Greenview, Hydro One, and Bell are working together throughout this project on utility pole locations/relocations that may need to be addressed as part of the reconstruction operations, and determination on next steps regarding utility poles will be addressed at the detailed design stage of the project.

Again, thank you for your interest in this very important project for the Township of Greater Madawaska and we look forward to your attendance at the PIC on June 15th.

Have a great day -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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From: Marnie Peters <peters.marnie@gmail.com>

Sent: Tuesday, June 1, 2021 4:04 PM

To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: Re: Notice of Public Information Centre - Adjacent Property Owners & Interested Parties - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Hi Dan

Please find attached my comments regarding the reconstruction of Ferguson Lake Rd. Renfrew.

Cheers

Marnie

On Fri, May 28, 2021 at 9:46 AM Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca> wrote:

Good morning, Adjacent Property Owners and Interested Parties:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, as you had previously provided Greenview and the Township with your email address as part of the *Notice of Study Commencement* in June 2020. A copy of this submission will also be provided to you in hardcopy format, by mail.

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, you were provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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|

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Marnie Peters

www.AccessibilitySimplified.com



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Marnie Peters

www.AccessibilitySimplified.com



Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, June 4, 2021 11:23 AM
To: familyvriend@rogers.com
Cc: Allison Holtzhauer (TGM); Solutions - Greenview
Subject: RE: Public Information Center (PIC) - Reconstruction of Ferguson Lake Road Project - TGM (102.21.025)

Good morning, Mr. Vriend:

Thank you for your interest in the Public Information Centre (PIC) event scheduled for 7:00pm on Tuesday June 15, 2021, with respect to the Reconstruction of Ferguson Lake Road Project and the Schedule B Municipal Class Environmental Assessment (MCEA) process.

We have noted your interest in attending the event, and we will provide you with a meeting link to the PIC in advance of the event day.

The planning aspects of this project are being undertaken in accordance with the *Municipal Class Environmental Assessment* (MCEA) process, as a Schedule B undertaking. The upcoming PIC has been scheduled to communicate project information to interested parties, gather input from interested parties on the Township's initial *Preferred Alternative* for the project, and to address existing issues with the identified portion of Ferguson Lake Road. Comments received before, during, and after the Public Information Centre (PIC) will be considered in the process, prior to confirming the *Preferred Alternative*.

Regarding background information and studies, all available and relevant information will be uploaded to the Township website prior to the PIC, and presented as part of the PIC. We are working on these aspects currently.

Thank you again for your interest and have a great day -

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



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From: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Sent: Friday, June 4, 2021 10:16 AM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Subject: FW: Reconstruction of Ferguson Lake Road Project

Please see below

From: PAUL VRIEND <familyvriend@rogers.com>
Sent: June 4, 2021 9:31 AM

To: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>

Subject: Reconstruction of Ferguson Lake Road Project

Good morning Allison Holtzhauer,

My husband and I would be interested in joining the online public meeting on June 15th.
We would appreciate it if you could share the meeting link with us.

thank you and have a nice day,

Diane Vriend
613-899-9769

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, June 4, 2021 11:37 AM
To: Hatcher, Laura (MHSTCI)
Cc: Allison Holtzhauer (TGM); Solutions - Greenview
Subject: File 0012627: Notice of PIC - Provincial Agencies & Authorities - Recons. of FLR Project

Good morning, Ms. Hatcher, Heritage Planner,
Ontario Ministry of Heritage, Sport, Tourism and Culture Industries:

Thank you for reaching out and providing us the update that you are the new contact for the Reconstruction of Ferguson Lake Road Project for the Township of Greater Madawaska.

We have noted your interest in the event, and we will provide you with a meeting link to the PIC in advance of the event day. Regarding background information and studies, all available and relevant information will be uploaded to the Township website prior to the PIC, and presented as part of the PIC. We are working on these aspects currently.

Specific to the socio-cultural studies completed as part of the Schedule B – MCEA process, the following reports were completed by Archeological Services Inc. (ASI) in 2020:

1. Stage 1 Archaeological Assessment - Ferguson Lake Road (DRAFT)
2. Cultural Heritage Resource Assessment: Built Heritage Resources & Cultural Heritage Landscapes - Existing Conditions & Preliminary Impact Assessment Report (DRAFT)

Both reports are currently in draft format, and we understand from communications with ASI that the reports are to be finalized once the *Preferred Alternative* for road reconstruction has been finalized, the MCEA process is concluded, and detailed design for the road reconstruction has been finalized so that they can review the final design and update their reports accordingly.

As the draft reports are planned to be posted to the Township's website in advance of the PIC event for access by all stakeholders, we can (at your direction) provide you directly with copies of the draft reports; however, if you would prefer to wait to have the final reports we can certainly provide them to you for review at that time as well.

If you could please advise as to your expectations in this regard, we can proceed accordingly. Otherwise, I hope you have a fantastic Friday!

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



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www.greenview-environmental.ca

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From: Hatcher, Laura (MHSTCI) <Laura.E.Hatcher@ontario.ca>
Sent: Wednesday, June 2, 2021 1:19 PM
To: Solutions - Greenview <solutions@greenview-environmental.ca>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>

Subject: FW: File 0012627: Notice of Public Information Centre - Provincial Agencies & Authorities - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Good afternoon,

Thank you for sharing the notice of PIC. I would like to advise that I am the new contact for this project for the Ministry of Heritage, Sport, Tourism and Culture Industries. Please remove Kim Livingstone from your contact list as she is no longer working at MHSTCI.

Would you be able to send the PIC materials to me once they are ready?

I was also wondering if you have a status update on any technical cultural heritage studies that are being prepared for this project.

Many thanks,
Laura

Laura Hatcher, MCIP, RPP

Heritage Planner

Heritage Planning Unit | Programs and Services Branch | Heritage, Tourism and Culture Division

Ministry of Heritage, Sport, Tourism and Culture Industries

401 Bay Street Suite 1700 Toronto ON M7A 0A7

Tel. 437-239-3404 **New** | email: laura.e.hatcher@ontario.ca

From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>

Sent: May-28-21 9:44 AM

To: Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: Notice of Public Information Centre - Provincial Agencies & Authorities - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Good morning, Provincial Agencies & Authorities:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, for your consideration, as part of the requirements of the *Schedule B Municipal Class Environmental Assessment* for the project. A copy of this submission will also be provided to you in hardcopy format, by mail (if mailing address information for your office is known).

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, your office was provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Andrew Penny <apenny@kingsfordconsulting.ca>
Sent: Friday, June 4, 2021 3:57 PM
To: Solutions - Greenview
Subject: Ferguson Lake Road
Attachments: PastedGraphic-3.tiff

Attn: Tyler Peters

Hu Tyler,

I have a property on Ferguson Lake road. I keep getting info from you about the *planned* rebuilding of the road. It was rebuilt about 2 or 3 years ago.

What gives?

Andrew

(PS: If there is a plan to rebuild the section approx 2KM north of highway 508 that would be great!!)

Andrew Penny cmc mba
[LinkedIn](#)
1-613-592-0544 ext 300
1-877-888-0598 ext 300
[Web](#) / [LinkedIn](#) / [Facebook](#)



Business Accelerators

Dan Hagan (Greenview)

From: Tyler Peters (Greenview)
Sent: Friday, June 4, 2021 4:39 PM
To: Andrew Penny
Cc: Solutions - Greenview; Allison Holtzhauer (aholtzhauer@greatermadawaska.com); Dan Hagan (Greenview)
Subject: RE: Ferguson Lake Road

Hello Andrew,

Thank you for your email.

The Township of Greater Madawaska is planning to reconstruct a portion of Ferguson Lake Road, between just south of Campground Side Road intersection, and Kennelly Mountain Road, a length of approximately 5.7 km.

You are correct, portions of this section of road were rebuilt in the past by the municipality external to the current project funding, and this prior work has been considered in the planning and design processes.

We will carry your inquiry further for consideration in the process and upcoming Public Information Centre (PIC) on June 15, 2021. If you would like to participate in the virtual PIC, please advise, and we will include you on the emailing list for the meeting link.

Have a nice weekend -

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Andrew Penny <apenny@kingsfordconsulting.ca>
Sent: June 4, 2021 2:57 PM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Ferguson Lake Road

Attn: Tyler Peters

Hu Tyler,

I have a property on Ferguson Lake road. I keep getting info from you about the *planned* rebuilding of the road. It was rebuilt about 2 or 3 years ago.

What gives?

Andrew

(PS: If there is a plan to rebuild the section approx 2KM north of highway 508 that would be great!!)

Andrew Penny cmc mba
[LinkedIn](#)
1-613-592-0544 ext 300

1-877-888-0598 ext 300
[Web](#) / [LinkedIn](#) / [Facebook](#)



Business Accelerators

Dan Hagan (Greenview)

From: mjducharme@sympatico.ca
Sent: Thursday, June 10, 2021 3:24 PM
To: Solutions - Greenview
Subject: Notice of PIC - Adjacent Property Owners & Interested Parties - Reconstruction of FLR Project

Mr. Peters,

For your reference, our property description as per our tax invoice is BLYTHFIELD CON 4 PT LOT 29 RP 49R17343 PART 3 IRREG 13.49 AC.

Regards, Marcel

From: mjducharme@sympatico.ca <mjducharme@sympatico.ca>
Sent: June 10, 2021 10:56 AM
To: 'solutions@greenview-environmental.ca' <solutions@greenview-environmental.ca>
Cc: 'Dan Hagan (Greenview)' <dan.hagan@greenview-environmental.ca>
Subject: RE: Notice of Public Information Centre - Adjacent Property Owners & Interested Parties - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Mr. Peters,

Please find attached completed form for my wife (Janice) and I to continue to receive information concerning the Reconstruction of Ferguson Lake Road Project.

Regards, Marcel

Marcel Ducharme
613-541-8152

From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Sent: May 28, 2021 9:47 AM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Notice of Public Information Centre - Adjacent Property Owners & Interested Parties - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Good morning, Adjacent Property Owners and Interested Parties:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, as you had previously provided Greenview and the Township with your email address as part of the *Notice of Study Commencement* in June 2020. A copy of this submission will also be provided to you in hardcopy format, by mail.

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, you were provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geol.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: mjducharme@sympatico.ca
Sent: Thursday, June 10, 2021 11:56 AM
To: Solutions - Greenview
Cc: Dan Hagan (Greenview)
Subject: Notice of PIC - Adjacent Property Owners & Interested Parties - Reconstruction of FLR Project
Attachments: reconstruction of Ferguson Lake road_Request by Marcel_Jan Duch.pdf

Mr. Peters,

Please find attached completed form for my wife (Janice) and I to continue to receive information concerning the Reconstruction of Ferguson Lake Road Project.

Regards, Marcel

Marcel Ducharme
613-541-8152

From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Sent: May 28, 2021 9:47 AM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Notice of Public Information Centre - Adjacent Property Owners & Interested Parties - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Good morning, Adjacent Property Owners and Interested Parties:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, as you had previously provided Greenview and the Township with your email address as part of the *Notice of Study Commencement* in June 2020. A copy of this submission will also be provided to you in hardcopy format, by mail.

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, you were provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
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Project Comment Form

Re: Notice of Public Information Centre
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.21.025

Please refer to the provided information and Notice of Public Information Centre associated with the above-noted project.

Name: Marcel and Janice Ducharme
Agency (if applicable): _____
Address: 1039 Megan's St., Kingston ON K7P 3E6
Email: mjducharme@sympatico.ca

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☒ I/We wish to be involved further in the project as noted below:

- ① Any potential widening of road along our property
- ② Any impact on accessing our property (i.e. blockage of our access road)
- ③ Ensuring any work on Ferguson Lake Road keep grade on access road to our property, which was an issue during last upgrade to the road that required us to address with addition gravel fill.
- ④ Any environmental impact on the creek that runs through our property and crosses under Ferguson Lake road.


Signature

Please return this completed form by **June 29, 2021** to:

Mr. Tyler Peters, P. Eng.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Dan Hagan (Greenview)

From: Handford, Karen (MNRF) <Karen.Handford@ontario.ca>
Sent: Friday, June 11, 2021 12:53 PM
To: Solutions - Greenview
Subject: FW: Notice of PIC - Provincial Agencies & Authorities - Reconstruction of FLR Project - TGM (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Public Information Centre (PIC) - Notice - FINAL - May27-21.pdf; 102.21.025-FLR-NoticePIC-CommentForm2021-05-27-MNRF.pdf

Hi Tyler,

I've attached the comment form as requested.

Thank you,

Karen Handford

Resources Operations Supervisor | Pembroke District
Ministry of Natural Resources and Forestry | 31 Riverside Dr, Pembroke ON K8A 8R6
Cell: 613-585-3877 Email: Karen.Handford@ontario.ca

From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Sent: May-28-21 9:44 AM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Notice of Public Information Centre - Provincial Agencies & Authorities - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Good morning, Provincial Agencies & Authorities:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, for your consideration, as part of the requirements of the *Schedule B Municipal Class Environmental Assessment* for the project. A copy of this submission will also be provided to you in hardcopy format, by mail (if mailing address information for your office is known).

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, your office was provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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Project Comment Form

**Re: Notice of Public Information Centre
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.21.025**

Please refer to the provided information and Notice of Public Information Centre associated with the above-noted project.

Name:	Karen Handford
Agency (if applicable):	Ontario Ministry of Natural Resources & Forestry, Pembroke District
Address:	31 Riverside Dr, Pembroke ON K8A 6W5
Email:	karen.handford@ontario.ca

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☒ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☐ I/We wish to be involved further in the project as noted below:



Signature

Please return this completed form by **June 29, 2021** to:

Mr. Tyler Peters, P. Eng.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Dan Hagan (Greenview)

From: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Sent: Monday, June 14, 2021 9:37 AM
To: Dan Hagan (Greenview); Tyler Peters (Greenview); Solutions - Greenview
Subject: FW: Ferguson Lake Rd Public Info Centre

Please see below.

Thanks,
Allison

From: Wally Chippior <wchippior@gmail.com>
Sent: June 13, 2021 10:06 AM
To: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Subject: Ferguson Lake Rd Public Info Centre

Hello,

Could you please provide access details for the Public Information Centre event to be held tuesday June 15

Thank you

Wally and Sandra Chippior
1120 Ferguson Lake Rd, Renfrew, ON K7V 3Z7
613-432-6713

Dan Hagan (Greenview)

From: Tyler Peters (Greenview)
Sent: Monday, June 14, 2021 11:24 AM
To: Dan Hagan (Greenview); Celine Boutin (Greenview)
Subject: Fwd: Ferguson Lake Road Design
Attachments: General Arrangement C058 Drawing.pdf; Structure Location Map_C058.pdf

Tyler Peters, P.Eng.
Project Director
Greenview Environmental Management

From: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Sent: Monday, June 14, 2021 10:13:15 AM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Cc: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Subject: RE: Ferguson Lake Road Design

Good morning Tyler,

The final construction drawings are not yet complete however please see attached General Arrangement drawing for the new structure.

Please note that we plan to maintain the existing roadway elevation. Road platform should remain similar to existing as well, however it will likely be slightly widened to ensure adequate shoulder width.

If you have any questions or concerns, or you require more information please do not hesitate to ask,

Brett Kidd, EIT
Infrastructure Coordinator

Department of Public Works & Engineering
County of Renfrew
9 International Drive
Pembroke, ON K8A 6W5
Phone 613 732 4353 x449
Fax 613 732 0087
bkidd@countyofrenfrew.on.ca



From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: May 27, 2021 3:13 PM
To: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Cc: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Subject: RE: Ferguson Lake Road Design

[CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.]

Hi Brett,

We're looking for an update on the culvert replacements for design coordination.

When can you share preliminary drawings?

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: May 4, 2021 9:16 AM
To: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Cc: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: RE: Ferguson Lake Road Design

Thanks Brett;

Please share your preliminary design information as soon as you can for us to consider when we go to detailed design hopefully in the next few weeks.

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Sent: May 4, 2021 9:11 AM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Cc: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Subject: RE: Ferguson Lake Road Design

Ok perfect, thank you Tyler

I will incorporate that info into my structure replacement plans

From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: May 4, 2021 8:54 AM
To: Brett Kidd <BKidd@countyofrenfrew.on.ca>

Cc: Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: RE: Ferguson Lake Road Design

[CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.]

Good morning Brett;

Our geotechnical consultant advises of 50mm HL4 asphalt (single lift) over 150mm GA, over 300mm GB (or suitable fill).

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Brett Kidd <BKidd@countyofrenfrew.on.ca>

Sent: April 29, 2021 3:18 PM

To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>

Subject: RE: Ferguson Lake Road Design

Good afternoon Tyler,

Sorry to bug you, another couple of questions here:

Do you have a depth in mind for the roadbed granular on Ferguson Lake Road? (For example, 300mm gran 'B' topped with 150mm gran 'A'?)

Also are you expecting to re-surface with asphalt? If so, what thickness would you be aiming for?

I apologize for the inconvenience,

Thanks,

Brett Kidd, EIT

Infrastructure Coordinator

Department of Public Works & Engineering
County of Renfrew
9 International Drive
Pembroke, ON K8A 6W5
Phone 613 732 4353 x449
Fax 613 732 0087
bkidd@countyofrenfrew.on.ca



From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: April 1, 2021 1:03 PM
To: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: RE: Ferguson Lake Road Design

[CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.]

Hi Brett,

Sorry for the delay in responding.

We didn't perform any traffic counts on the road. We were provided the following from the Township (source unknown) of:

Current Average Annual Daily Traffic (AADT)	280
Summer Average Daily Traffic (SADT)	600
Current daily volume or percentage of trucks	15%
Current daily volume of pedestrians and cyclists	5%
Future AADT (10 and/or 20 year forecast), truck, pedestrians and cyclists volume	350, 15%, 10%
Classification (arterial, collector, local road)	Local Road

Regarding design speed, the road is currently posted at a single location near Calabogie Road at 60km/h. We are currently working with a 60km/h or 70km/h design speed for the rehab project.

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Sent: March 30, 2021 11:25 AM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Subject: Ferguson Lake Road Design

Good morning Tyler,

I'm just contacting you to inquire if Greenview has performed any recent traffic counts for Ferguson Lake road? I have an estimated AADT of 185 with 10% truck traffic but I was hoping you might have a more recent and/or accurate figure.

Also just for clarification, you are looking into changing the design speed?

Brett Kidd, EIT
Infrastructure Coordinator

Department of Public Works & Engineering
County of Renfrew

9 International Drive
Pembroke, ON K8A 6W5
Phone 613 732 4353 x449
Fax 613 732 0087
bkidd@countyofrenfrew.on.ca



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Ce courriel peut faire état d'information privilégiée ou confidentielle destinée à une personne ou à une entité nommée dans ce message. Dans l'éventualité où le lecteur de ce message n'est pas le récipiendaire visé ou l'agent responsable de le faire suivre au récipiendaire visé, vous êtes par la présente avisé que toute revue, diffusion, distribution ou reproduction de cette communication est interdite. Si cette communication a été reçue par erreur, veuillez nous en aviser par réponse de courriel et supprimer le message original et tous documents ci-joints.

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Monday, June 14, 2021 4:10 PM
To: Solutions - Greenview
Cc: Allison Holtzhauer (TGM); Tyler Peters (Greenview)
Subject: Meeting Link for Public Information Centre (PIC) - Reconstruction of FLR Project - TGM (102.21.025)

Importance: High

Good afternoon, Interested Stakeholders:

Please find the attached meeting link to the *Public Information Centre (PIC)* for the *Reconstruction of Ferguson Lake Road Project*, in the Township of Greater Madawaska (Township):

Public Information Centre - Reconstruction of Ferguson Lake Road Township of Greater Madawaska

Date: Tuesday, June 15, 2021
Time: 7:00 p.m.

Join on your computer or mobile app

[Click here to join the meeting](#)

[Learn More](#) | [Meeting options](#)

Relevant documentation pertaining to the project is to be published on the Township's website in advance of the PIC event, for public viewing at:

- <https://www.greatermadawaska.com/departments/public-works/ferguson-lake-road-reconstruction-3324.html>

You have been provided with this meeting link for the PIC event, based on previous communications to the Township in response to the *Notice of Public Information Centre* for the project, as below.

Notice of Public Information Centre

Reconstruction of Ferguson Lake Road Project Schedule B - Municipal Class Environmental Assessment

The Township of Greater Madawaska is undertaking a study to determine the most suitable alternative to reconstruct 5.7 km of Ferguson Lake Road, from approximately Campground Side Road to Kennelly Mountain Road. The project is being implemented in order to improve road safety, efficiency, drainage, and active transportation uses. This Notice has been issued in order to notify the public of the upcoming *Public Information Centre*.

How Might This Project Impact Me?

The study has been undertaken in accordance with a Schedule B Undertaking of the Municipal Class Environmental Assessment (MCEA, 2015), as amended. The Schedule B – MCEA study for Ferguson Lake Road has considered and assessed reconstruction alternatives, and the associated potential for impacts on the study area from each alternative.

At this time, careful consideration of the potential impacts of all alternatives have been reviewed by the Township. An initial determination of a *Preferred Alternative* for the reconstruction of Ferguson Lake Road has been made by Municipal Council based on the results of various studies completed, and input from agencies, the public, Indigenous Communities, and other interested parties.



Details on the Public Information Centre

The public is invited to join the Township for a virtual *Public Information Centre* event to be informed on the results of the Schedule B – MCEA study, including results of the various studies completed, design alternatives that were considered, and the initial determination on the *Preferred Alternative* for the reconstruction of Ferguson Lake Road, as identified by the Township. The *Public Information Centre* is planned to occur per the following details:

Date: Tuesday, June 15, 2021

Time: 7:00 p.m.

Due to the on-going COVID-19 Pandemic and related restrictions on public gatherings, the *Public Information Centre* is planned to be conducted as a virtual event only. If you are interested in joining the Township for the *Public Information Centre*, or would like additional information on this project, please contact the undersigned in order to be provided with access details for the event:

Owner:
Township of Greater Madawaska
Allison Holtzhauer
CAO/Clerk-Treasurer
19 Parnell Street
Calabogie, Ontario K0J 1H0
Tel: 813-752-2222
E-mail: cao@greatermadawaska.com

Prime Consultant:
Greenview Environmental Management Limited
Tyler Peters, P.Eng.
Project Director
13 Commerce Court
Bancroft, Ontario K0L 1C0
Tel: 813-332-0057
E-mail: solutions@greenview-environmental.ca

NOTICE:
Respondents should note that information collected for this study will be subject to the *Freedom of Information and Protection of Privacy Act*. With the exception of personal information, all comments received will become part of the public record and may be included in the study documentation prepared for public review.

Following the *Public Information Centre*, comments will be received by the Township until June 29, 2021. After the comment period, the Township intends to proceed with a *Project File Report*, to be placed on the public record for a minimum 30-day review period, per the requirements of the MCEA process.

This Notice is Issued May 27, 2021

Allison Holtzhauer
CAO/Clerk-Treasurer, Township of Greater Madawaska



Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Tyler Peters (Greenview)
Sent: Monday, June 14, 2021 5:18 PM
To: Brett Kidd
Cc: Taylor Hanrath; Dan Hagan (Greenview); Solutions - Greenview
Subject: RE: Ferguson Lake Road Design

Hi Brett,

Dan Hagan from our group is back managing this project again for us (cc'd).

He can answer your questions with better accuracy, thanks.

Cheers,

Tyler Peters, P.Eng.

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Sent: June 14, 2021 4:06 PM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Cc: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
Subject: RE: Ferguson Lake Road Design

Good afternoon Tyler,

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Would you be able to please provide me with your design measurements for pavement width, shoulder width, and crossfall?

(Or at least your tentative measurements)

Also, if you plan on raising the existing roadway elevation, how much would you be doing so?

Thank you,

Brett Kidd, EIT
Infrastructure Coordinator

Department of Public Works & Engineering
County of Renfrew
9 International Drive
Pembroke, ON K8A 6W5
Phone 613 732 4353 x449
Fax 613 732 0087
bkidd@countyofrenfrew.on.ca



From: Brett Kidd
Sent: June 14, 2021 10:13 AM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Cc: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>
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Phone 613 732 4353 x449
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Cc: Taylor Hanrath <THanrath@countyofrenfrew.on.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>; Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Subject: RE: Ferguson Lake Road Design

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Subject: RE: Ferguson Lake Road Design

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Good morning Brett;

Our geotechnical consultant advises of 50mm HL4 asphalt (single lift) over 150mm GA, over 300mm GB (or suitable fill).

Cheers,

Tyler Peters, P.Eng.

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From: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Sent: April 29, 2021 3:18 PM
To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Subject: RE: Ferguson Lake Road Design

Good afternoon Tyler,

Sorry to bug you, another couple of questions here:

Do you have a depth in mind for the roadbed granular on Ferguson Lake Road? (For example, 300mm gran 'B' topped with 150mm gran 'A'?)

Also are you expecting to re-surface with asphalt? If so, what thickness would you be aiming for?

I apologize for the inconvenience,
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9 International Drive
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Phone 613 732 4353 x449
Fax 613 732 0087
bkidd@countyofrenfrew.on.ca



From: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Sent: April 1, 2021 1:03 PM
To: Brett Kidd <BKidd@countyofrenfrew.on.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: RE: Ferguson Lake Road Design

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Hi Brett,

Sorry for the delay in responding.

We didn't perform any traffic counts on the road. We were provided the following from the Township (source unknown) of:

Current Average Annual Daily Traffic (AADT)	280
Summer Average Daily Traffic (SADT)	600
Current daily volume or percentage of trucks	15%
Current daily volume of pedestrians and cyclists	5%
Future AADT (10 and/or 20 year forecast), truck, pedestrians and cyclists volume	350, 15%, 10%
Classification (arterial, collector, local road)	Local Road

Regarding design speed, the road is currently posted at a single location near Calabogie Road at 60km/h. We are currently working with a 60km/h or 70km/h design speed for the rehab project.

Cheers,

Tyler Peters, P.Eng.

Greenview Environmental Management
613.332.0057 x 102
greenview-environmental.ca

From: Brett Kidd <BKidd@countyofrenfrew.on.ca>

Sent: March 30, 2021 11:25 AM

To: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>

Subject: Ferguson Lake Road Design

Good morning Tyler,

I'm just contacting you to inquire if Greenview has performed any recent traffic counts for Ferguson Lake road? I have an estimated AADT of 185 with 10% truck traffic but I was hoping you might have a more recent and/or accurate figure.

Also just for clarification, you are looking into changing the design speed?

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Project Comment Form

Re: Notice of Public Information Centre
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.21.025

Please refer to the provided information and Notice of Public Information Centre associated with the above-noted project.

Name: Wilf O'Brien
Agency (if applicable): _____
Address: 1356 Ferguson Lake Road
Email: obrienwilf@yahoo.ca

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☒ I/We wish to be involved further in the project as noted below:

I would like to know why the 2 culverts are being replaced on Constan creek below our home. They are not rusted, weakened or diminished in anyway since they were put in 20 some years ago. If they are to be replaced I'd like to know the cost for cement culverts to replace them & how if this is an Environmental concern for closed bottoms in the steel culverts there now & how this impacts frogs, turtle etc. Check the steel culverts which fill up each Spring with sand & gravel on their bottom so God's little creatures can properly procreate.

Wilf O'Brien
Signature

Please return this completed form by June 29, 2021 to:

Mr. Tyler Peters, P. Eng.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057

I'd also like to know the cost of consulting fees for this project & cost of retaining barriers up around the culverts and Hunts (Sivaski's) Bridge.

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Tuesday, June 15, 2021 8:19 AM
To: Brett Kidd
Cc: Taylor Hanrath; Solutions - Greenview
Subject: RE: Preliminary Design Details - Reconstruction of FLR Project - TGM (102.21.025)
Attachments: 102.21.025 - Ferguson Lake Road - Preliminary Design Brief (WSP) - Jun14-21.pdf; 102.21.025 - Ferguson Lake Road - Preliminary Design Drawings (WSP) - Jun06-21.pdf

Good morning, Brett –

Thanks for reaching out.

We are currently still in the MCEA Schedule B process, with preliminary design of the road completed at this time. Once the MCEA Schedule B process has been completed, we anticipate moving on to detailed design this summer, with the intent to tender later this fall.

As soon as the County has detailed design plans for the culvert replacements you have noted, we would appreciate the County sharing those with us as soon as possible.

Please see the attached design brief and preliminary design drawings for the project area of Ferguson Lake Road, for your file.

In a general sense, the following details apply to the preliminary design:

- *Single-Lane Width = 3.3 m*
- *Crossfall = 2%*
- *Paved Shoulder Width = 0.5 m*
- *Granular shoulder Width = 0.5 m*
- *Ditches = 3:1 slope (typical)*
- *Depth of HL4 Asphalt = 50 mm*
- *Depth of Base = 150 mm (min.)*

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Sent: Tuesday, June 15, 2021 3:21 PM
To: Dan Hagan (Greenview)
Cc: Tyler Peters (Greenview); Solutions - Greenview
Subject: FW: Ferguson Lake Road Reconstruction

HI,

Please see below.

Thanks,
Allison

From: Richard Irving <RIrving@karson.ca>
Sent: June 15, 2021 2:04 PM
To: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Subject: Ferguson Lake Road Reconstruction

Hello Alison;
Please send me the link so that I can participate in the above captioned information seminar.
Thanks,
Richard Irving

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Tuesday, June 15, 2021 4:28 PM
To: RIrving@karson.ca
Cc: Allison Holtzhauer (TGM); Solutions - Greenview
Subject: Meeting Link for Public Information Centre (PIC) - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Importance: High

Good afternoon, Interested Stakeholder:

Please find the attached meeting link to the *Public Information Centre* (PIC) for the *Reconstruction of Ferguson Lake Road Project*, in the Township of Greater Madawaska (Township):

Public Information Centre - Reconstruction of Ferguson Lake Road **Township of Greater Madawaska**

Date: Tuesday, June 15, 2021
Time: 7:00 p.m.

Join on your computer or mobile app

[Click here to join the meeting](#)

[Learn More](#) | [Meeting options](#)

Relevant documentation pertaining to the project is to be published on the Township's website in advance of the PIC event, for public viewing at:

- <https://www.greatermadawaska.com/departments/public-works/ferguson-lake-road-reconstruction-3324.html>

You have been provided with this meeting link for the PIC event, based on previous communications to the Township in response to the *Notice of Public Information Centre* for the project, as below.

Notice of Public Information Centre

Reconstruction of Ferguson Lake Road Project Schedule B - Municipal Class Environmental Assessment

The Township of Greater Madawaska is undertaking a study to determine the most suitable alternative to reconstruct 5.7 km of Ferguson Lake Road, from approximately Campground Side Road to Kennelly Mountain Road. The project is being implemented in order to improve road safety, efficiency, drainage, and active transportation uses. This Notice has been issued in order to notify the public of the upcoming *Public Information Centre*.

How Might This Project Impact Me?

The study has been undertaken in accordance with a Schedule B Undertaking of the Municipal Class Environmental Assessment (MCEA, 2015), as amended. The Schedule B – MCEA study for Ferguson Lake Road has considered and assessed reconstruction alternatives, and the associated potential for impacts on the study area from each alternative.

At this time, careful consideration of the potential impacts of all alternatives have been reviewed by the Township. An initial determination of a *Preferred Alternative* for the reconstruction of Ferguson Lake Road has been made by Municipal Council based on the results of various studies completed, and input from agencies, the public, Indigenous Communities, and other interested parties.



Details on the Public Information Centre

The public is invited to join the Township for a virtual *Public Information Centre* event to be informed on the results of the Schedule B – MCEA study, including results of the various studies completed, design alternatives that were considered, and the initial determination on the *Preferred Alternative* for the reconstruction of Ferguson Lake Road, as identified by the Township. The *Public Information Centre* is planned to occur per the following details:

Date: Tuesday, June 15, 2021

Time: 7:00 p.m.

Due to the on-going COVID-19 Pandemic and related restrictions on public gatherings, the *Public Information Centre* is planned to be conducted as a virtual event only. If you are interested in joining the Township for the *Public Information Centre*, or would like additional information on this project, please contact the undersigned in order to be provided with access details for the event:

Owner:
Township of Greater Madawaska
Allison Holtzhauer
CAO/Clerk-Treasurer
19 Parnell Street
Calabogie, Ontario K0J 1H0
Tel: 813-752-2222
E-mail: cao@greatermadawaska.com

Prime Consultant:
Greenview Environmental Management Limited
Tyler Peters, P.Eng.
Project Director
13 Commerce Court
Bancroft, Ontario K0L 1C0
Tel: 813-332-0057
E-mail: solutions@greenview-environmental.ca

NOTICE:
Respondents should note that information collected for this study will be subject to the *Freedom of Information and Protection of Privacy Act*. With the exception of personal information, all comments received will become part of the public record and may be included in the study documentation prepared for public review.

Following the *Public Information Centre*, comments will be received by the Township until June 29, 2021. After the comment period, the Township intends to proceed with a *Project File Report*, to be placed on the public record for a minimum 30-day review period, per the requirements of the MCEA process.

This Notice is Issued May 27, 2021

Allison Holtzhauer
CAO/Clerk-Treasurer, Township of Greater Madawaska



Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Tuesday, June 15, 2021 4:50 PM
To: obrienwilf@yahoo.ca
Cc: Allison Holtzhauer (TGM); Tyler Peters (Greenview); Solutions - Greenview
Subject: Response to Project Comment Form - Wilf O'Brien - Reconstruction of FLR Project - TGM (102.21.025)
Attachments: 102.21.025 - NSC - Project Comment Form - W O'Brien (Owners).pdf

Good afternoon, Mr. O'Brien:

We wish to acknowledge receipt of your *Project Comment Form* (as attached), related to the *Reconstruction of Ferguson Lake Road Project* for the Township of Greater Madawaska, as received today at our Greenview Environmental Management office by regular mail. Thank you for your interest in this very important project.

Please note that, relative to your questions regarding the replacement of the culverts on Constant Creek, that particular project is the responsibility of the County of Renfrew (as the culverts are owned by the County). Replacement of the culverts (and the costs involved in that project) are not part of the *Reconstruction of Ferguson Lake Road Project* currently being managed by the Township and Greenview Environmental Management. If you have any further questions regarding the culvert replacements on Constant Creek, we would recommend that you please direct any questions to the County, as they should be able to assist you.

As you have expressed interest in our project by submitting a *Project Comment Form*, please find the attached meeting link to the *Public Information Centre (PIC)* for the *Reconstruction of Ferguson Lake Road Project*, in the Township of Greater Madawaska (Township):

Public Information Centre - Reconstruction of Ferguson Lake Road Township of Greater Madawaska

Date: Tuesday, June 15, 2021
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Join on your computer or mobile app

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The Township of Greater Madawaska is undertaking a study to determine the most suitable alternative to reconstruct 5.7 km of Ferguson Lake Road, from approximately Campground Side Road to Kennelly Mountain Road. The project is being implemented in order to improve road safety, efficiency, drainage, and active transportation uses. This Notice has been issued in order to notify the public of the upcoming *Public Information Centre*.

How Might This Project Impact Me?

The study has been undertaken in accordance with a Schedule B Undertaking of the Municipal Class Environmental Assessment (MCEA, 2015), as amended. The Schedule B – MCEA study for Ferguson Lake Road has considered and assessed reconstruction alternatives, and the associated potential for impacts on the study area from each alternative.

At this time, careful consideration of the potential impacts of all alternatives have been reviewed by the Township. An initial determination of a *Preferred Alternative* for the reconstruction of Ferguson Lake Road has been made by Municipal Council based on the results of various studies completed, and input from agencies, the public, Indigenous Communities, and other interested parties.



Details on the Public Information Centre

The public is invited to join the Township for a virtual *Public Information Centre* event to be informed on the results of the Schedule B – MCEA study, including results of the various studies completed, design alternatives that were considered, and the initial determination on the *Preferred Alternative* for the reconstruction of Ferguson Lake Road, as identified by the Township. The *Public Information Centre* is planned to occur per the following details:

Date: Tuesday, June 15, 2021

Time: 7:00 p.m.

Due to the on-going COVID-19 Pandemic and related restrictions on public gatherings, the *Public Information Centre* is planned to be conducted as a virtual event only. If you are interested in joining the Township for the *Public Information Centre*, or would like additional information on this project, please contact the undersigned in order to be provided with access details for the event:

Owner:
Township of Greater Madawaska
Allison Holtzhauer
CAO/Clerk-Treasurer
19 Parnell Street
Calabogie, Ontario K0J 1H0
Tel: 813-752-2222
E-mail: cao@greatermadawaska.com

Prime Consultant:
Greenview Environmental Management Limited
Tyler Peters, P.Eng.
Project Director
13 Commerce Court
Bancroft, Ontario K0L 1C0
Tel: 813-332-0057
E-mail: solutions@greenview-environmental.ca

NOTICE:
Respondents should note that information collected for this study will be subject to the *Freedom of Information and Protection of Privacy Act*. With the exception of personal information, all comments received will become part of the public record and may be included in the study documentation prepared for public review.

Following the *Public Information Centre*, comments will be received by the Township until June 29, 2021. After the comment period, the Township intends to proceed with a *Project File Report*, to be placed on the public record for a minimum 30-day review period, per the requirements of the MCEA process.

This Notice is Issued May 27, 2021

Allison Holtzhauer
CAO/Clerk-Treasurer, Township of Greater Madawaska



Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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Project Comment Form

Re: Notice of Public Information Centre
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.21.025

Please refer to the provided information and Notice of Public Information Centre associated with the above-noted project.

Name: Fred Little and Tara Lee Clayton
Agency (if applicable): N/A
Address: 1100 Hidden Lane, Renfrew, ON
Email: tlcclayton@hotmail.com

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☒ I/We wish to be involved further in the project as noted below:

Please send details on the proposed changes
and plans for the 5.7 km stretch of Ferguson
Lake Road. Specifically details regarding
efficiency and active transportation uses.

We look forward to hearing from you soon.

* Unfortunately we were not
available to attend the
June 15, 21 virtual
event.

T. Clayton
Signature

Please return this completed form by **June 29, 2021** to:

Mr. Tyler Peters, P. Eng.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Wednesday, June 16, 2021 9:14 AM
To: tlcclayton@hotmail.com
Cc: Allison Holtzhauer (TGM); Solutions - Greenview
Subject: Response to Project Comment Form - Clayton/Little - Reconstruction of Ferguson Lake Road Project - TGM (102.21.025)
Attachments: FAX_20210616_1623839946_632.prod.afc_did2-1623839901-18669058873-632.pdf

Good morning, Ms. Clayton and Mr. Little:

Thank you for providing us with your Project Comment Form by Fax, as received this morning (Jun16-21) at our Greenview office (attached).

Further to your request for available information on the Reconstruction of Ferguson Lake Road Project, all pertinent documents related to the project (including the Preliminary Design Drawings and Design Brief) are available for public download on the Township of Greater Madawaska's website at the following location:

- <https://www.greatermadawaska.com/departments/public-works/ferguson-lake-road-reconstruction-3324.html>

Additionally, a copy of the Public Information Centre (PIC) presentation is anticipated to be posted to the Township's website today.

We trust you will find this information helpful to understand the current status of the project and the next steps.

If you have any questions, please feel free to reach out to us at your convenience.

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Kerry-Lynn Mohr <klmohr17@icloud.com>
Sent: Wednesday, June 16, 2021 7:55 AM
To: Dan Hagan (Greenview)
Cc: Allison Holtzhauer; Dave Mohr
Subject: Comments Ferguson Lake Road Project

Dear Mr. Hagan,

Here are my comments:

Ferguson Lake Road is currently posted 60km/h, from the [508 to Kennelly Road](#). What will the posted limit be after the reconstruction project? Typically, a roadway is posted 10km/h to 20km/h below the design speed.

If the roadway is posted 60km/h, the same as the design speed, there is insufficient Stopping Sight Distance (SSD). TAC requires an SSD between 75-85m. It also assumes operating speeds between 55-65km/h.

What is the current operating speed of Ferguson Lake Road? Has speed data been collected, and can it be provided?

When was the traffic count conducted to determine the AADT for the roadway? Can it be provided?

Has the collision history for this roadway been reviewed for the past five years? If so what is the frequency of crashes and where?

Paving a 0.5m shoulder and calling it an improvement to active transportation and improving road safety is inaccurate. I predict operating speeds will only increase and the comfort and safety of vulnerable road users will decrease, when sight lines are not being improved.

There are sight line issues in the vicinity of the following Stations: 2+950, 4+100, 4+500, 5+100. From what I can ascertain these will not be corrected with the roadway alignment being proposed. You need to walk in the ditch at some of these locations and adding a 0.5m paved shoulder and a 0.5m gravel shoulder is not going to improve my level of safety or comfort when I'm walking or cycling. Loaded logging trucks cannot see me but thankfully I can hear them coming.

Will the OTM Books be reviewed and applied during detailed design? OTM Books 5, 6, 11 and 18? In particular OTM Book 18, the new update that WSP assisted with, speaks to cyclists in a rural environment.

Is only one lift of asphalt appropriate for loaded logging trucks? I'd like to see the traffic count data that was collected and in particular the number of heavy trucks. I anticipate that the asphalt will not withstand traffic volumes and in particular heavy vehicles for very long and we will be back to filling potholes.

There is nothing mentioned about adding illumination. To improve road safety, an intersection marker should be added to each intersection, especially at the Campground Side Road.

It would be better to make actual safety improvements and reconstruct less of the roadway than implement the design that is being recommended. I do not agree with the recommended design. More should be done to improve safety and the level of comfort for vulnerable road users.

Regards,

Kerry-Lynn Mohr

Sent from my iPhone

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Wednesday, June 16, 2021 4:03 PM
To: Kerry-Lynn Mohr
Cc: Allison Holtzhauer; Dave Mohr; Solutions - Greenview
Subject: RE: Comments Ferguson Lake Road Project (102.21.025)

Good afternoon, Ms. Mohr –

Thank you for providing us with the below comments regarding the *Reconstruction of Ferguson Lake Road* project for the Township of Greater Madawaska, as well as for your participation at last night's *Public Information Centre* (PIC).

We will review your questions with our design team, and with the Township, and endeavor to provide you with a response.

In the meantime, we encourage you to review the *Preliminary Design Drawings* and *Preliminary Design Brief* for the project, available for download by the public from the Township's website:

- <https://www.greatermadawaska.com/departments/public-works/ferguson-lake-road-reconstruction-3324.html>

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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From: Kerry-Lynn Mohr <klmohr17@icloud.com>
Sent: Wednesday, June 16, 2021 6:55 AM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Cc: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>; Dave Mohr <mohr812@mail.com>
Subject: Comments Ferguson Lake Road Project

Dear Mr. Hagan,

Here are my comments:

Ferguson Lake Road is currently posted 60km/h, from the [508 to Kennelly Road](#). What will the posted limit be after the reconstruction project? Typically, a roadway is posted 10km/h to 20km/h below the design speed.

If the roadway is posted 60km/h, the same as the design speed, there is insufficient Stopping Sight Distance (SSD). TAC requires an SSD between 75-85m. It also assumes operating speeds between 55-65km/h.

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There is nothing mentioned about adding illumination. To improve road safety, an intersection marker should be added to each intersection, especially at the Campground Side Road.

It would be better to make actual safety improvements and reconstruct less of the roadway than implement the design that is being recommended. I do not agree with the recommended design. More should be done to improve safety and the level of comfort for vulnerable road users.

Regards,

Kerry-Lynn Mohr

Sent from my iPhone

Project Comment Form

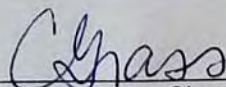
Re: Notice of Public Information Centre
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.21.025

Please refer to the provided information and Notice of Public Information Centre associated with the above-noted project.

Name: Cheryl Grass
Agency (if applicable):
Address: 32. Bartlett Cr., London, ON, N6K 1W4
Email: cherylgrass@sympatico.ca

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☒ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☐ I/We wish to be involved further in the project as noted below:


Signature

Please return this completed form by **June 29, 2021** to:

Mr. Tyler Peters, P. Eng.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Monday, June 21, 2021 8:16 AM
To: Tyler Peters (Greenview); Mansfield, Andrew; Howe, Jordan
Cc: Solutions - Greenview
Subject: FW: Reconstruction of Ferguson Lake Rd -- Campground Side Road Intersection

Good morning, gents –

Let's discuss these questions posed by Ed Tink as part of WSP's review of the previous suite of questions regarding the prelim road design.

Thanks –

D.

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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From: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Sent: Saturday, June 19, 2021 1:27 PM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Subject: FW: Reconstruction of Ferguson Lake Rd -- Campground Side Road Intersection

Please see below.

Thanks,
Allison

From: Luke Desjardins <ldesjardins@greatermadawaska.com>
Sent: June 16, 2021 11:34 AM
To: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>
Cc: ed.j.tink@gmail.com
Subject: FW: Reconstruction of Ferguson Lake Rd -- Campground Side Road Intersection

Hi Allison

See below the question from Ed Tink.

Thanks
Luke

From: Ed Tink <ed.j.tink@gmail.com>
Sent: June 16, 2021 10:01 AM
To: Luke Desjardins <ldesjardins@greatermadawaska.com>
Subject: Reconstruction of Ferguson Lake Rd -- Campground Side Road Intersection

Hi Luke,

Thank you for the information session. I found it most useful.

I understand there are yet to be defined details. I am interested in the strategy to address safety at the intersection of Ferguson Lake Road and Campground Side Road as our family owns the property surrounding this area on all sides.

I did review the Preliminary Design Drawing of this area (Sheet 3 of 21) with my limited knowledge. It appears that the driven portion of the road will remain within the existing survey and right-of-way along with minor widening of Campground Side Road at the intersection and widening of the bottom of ditch to the south-east corner.

I have a few related questions:

1. Is my interpretation above reasonably correct?
2. Will there be any property encroachments?

Please forward if required.

Regards,

Ed Tink
613 282 6883

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, June 24, 2021 4:35 PM
To: aboyd@ifsassociates.ca
Cc: Allison Holtzhauer (TGM); Tyler Peters (Greenview); Solutions - Greenview
Subject: Question Re: Landowner Notification of Butternut Trees - PIC - FLR (102.21.025)

Good afternoon, Mr. Boyd:

Further to your question at the Public Information Centre (PIC) regarding whether we would be permitted to share with you any/all locations of Category 3 or 2 Butternut Trees on your property adjacent to Ferguson Lake Road, we are writing to you today to advise that we have received comments back from the Ontario Natural Heritage Information Centre – Ministry of Natural Resources and Forestry, as well as from our Natural Heritage Specialists at Ainley Group, that we are in fact permitted to share this information with you.

Based on this information, we would like to cross-reference your property (or properties) along Ferguson Lake Road against our known instances of Category 3 or 2 Butternut Trees in the project area that were identified as part of the Natural Heritage Study.

Would you be able to provide us with your address on Ferguson Lake Road and/or the pertinent property information, so that we can proceed to complete this task for you? Our apologies, we do not have your property information in our file – we only have your mailing address and email for communication purposes.

Thank you, sir -

Sincerely,

Dan Hagan, P.Geol.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, June 25, 2021 1:58 PM
To: ed.j.tink@gmail.com
Cc: Allison Holtzhauer; ldesjardins@greatermadawaska.com; Tyler Peters (Greenview); Solutions - Greenview
Subject: Reconstruction of FLR - Campground Side Road Intersection - FLR (102.21.025)

Good afternoon, Mr. Tink.

Thank you for your questions regarding the *Reconstruction of Ferguson Lake Road Project* and details on the project in the vicinity of your properties.

Please note that you directed your questions to Mr. Desjardins at the Township of Greater Madawaska, and Mr. Desjardins is not directly involved in this project. Your comments were forwarded to us at Greenview Environmental Management (Greenview) by the Township's CAO to be addressed, as Greenview is responsible for managing and designing this project.

We have consulted with our Road Engineering Design Team for the project, and offer you the following responses to your questions:

1. It appears the existing road is already partially outside of the Right of Way (ROW) of Ferguson Lake Road; however, in a general sense, it is anticipated that the reconstruction activities of Ferguson Lake Road are to follow the existing road geometry and ROW as much as is possible, and are to be based on engineering requirements for the road.
2. Greenview and its engineering design team are proposing some safety improvements to the existing road geometry and drainage in the areas you described, as part of the Preliminary Design for the project, details of which will be further developed as part of the Detailed Design work scheduled for summer 2021.
3. With respect to property encroachments, there are two (2) property encroachments showing on the Preliminary Design Drawings in the area you are inquiring about. These encroachments will be reviewed in detail as part of the Detailed Design work.

Thank you for your interest in this project, and if you have any further questions please direct them to us at Greenview for our review.

Have a great weekend -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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From: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>

Sent: Saturday, June 19, 2021 1:27 PM

To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>

Subject: FW: Reconstruction of Ferguson Lake Rd -- Campground Side Road Intersection

Please see below.

Thanks,
Allison

From: Luke Desjardins <ldesjardins@greatermadawaska.com>

Sent: June 16, 2021 11:34 AM

To: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>

Cc: ed.j.tink@gmail.com

Subject: FW: Reconstruction of Ferguson Lake Rd -- Campground Side Road Intersection

Hi Allison

See below the question from Ed Tink.

Thanks
Luke

From: Ed Tink <ed.j.tink@gmail.com>

Sent: June 16, 2021 10:01 AM

To: Luke Desjardins <ldesjardins@greatermadawaska.com>

Subject: Reconstruction of Ferguson Lake Rd -- Campground Side Road Intersection

Hi Luke,

Thank you for the information session. I found it most useful.

I understand there are yet to be defined details. I am interested in the strategy to address safety at the intersection of Ferguson Lake Road and Campground Side Road as our family owns the property surrounding this area on all sides.

I did review the Preliminary Design Drawing of this area (Sheet 3 of 21) with my limited knowledge. It appears that the driven portion of the road will remain within the existing survey and right-of-way along with minor widening of Campground Side Road at the intersection and widening of the bottom of ditch to the south-east corner.

I have a few related questions:

1. Is my interpretation above reasonably correct?
2. Will there be any property encroachments?

Please forward if required.

Regards,

Ed Tink
613 282 6883

Dan Hagan (Greenview)

From: Andrew Boyd <forestry99@gmail.com>
Sent: Sunday, June 27, 2021 7:32 PM
To: Dan Hagan (Greenview)
Cc: Allison Holtzhauer (TGM); Tyler Peters (Greenview); Solutions - Greenview
Subject: RE: Question Re: Landowner Notification of Butternut Trees - Public Information Centre - Ferguson Lake Road (102.21.025)

Hi Dan,

Yes, I thought that strange. As I butternut health assessor myself I hadn't come across any privacy-related issues before. What do you need to identify my properties, roll numbers? Neither has a civic address on Ferguson Lake Road.

Thanks,

Andrew Boyd

From: Dan Hagan (Greenview) [mailto:dan.hagan@greenview-environmental.ca]
Sent: Thursday, June 24, 2021 3:35 PM
To: Andrew Boyd <aboyd@ifsassociates.ca>
Cc: Allison Holtzhauer (TGM) <aholtzhauer@greatermadawaska.com>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Question Re: Landowner Notification of Butternut Trees - Public Information Centre - Ferguson Lake Road (102.21.025)

Good afternoon, Mr. Boyd:

Further to your question at the Public Information Centre (PIC) regarding whether we would be permitted to share with you any/all locations of Category 3 or 2 Butternut Trees on your property adjacent to Ferguson Lake Road, we are writing to you today to advise that we have received comments back from the Ontario Natural Heritage Information Centre – Ministry of Natural Resources and Forestry, as well as from our Natural Heritage Specialists at Ainley Group, that we are in fact permitted to share this information with you.

Based on this information, we would like to cross-reference your property (or properties) along Ferguson Lake Road against our known instances of Category 3 or 2 Butternut Trees in the project area that were identified as part of the Natural Heritage Study.

Would you be able to provide us with your address on Ferguson Lake Road and/or the pertinent property information, so that we can proceed to complete this task for you? Our apologies, we do not have your property information in our file – we only have your mailing address and email for communication purposes.

Thank you, sir -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Monday, June 28, 2021 8:21 AM
To: Andrew Boyd
Cc: Allison Holtzhauer (TGM); Tyler Peters (Greenview); Solutions - Greenview
Subject: RE: Question Re: Landowner Notification of Butternut Trees - PIC - FLR (102.21.025)

Good morning, Mr. Boyd:

Yes please, if you could forward me the roll number(s) for your property/properties I will investigate this further for you this week.

Have a great day –

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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From: Andrew Boyd <forestry99@gmail.com>
Sent: Sunday, June 27, 2021 6:32 PM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Cc: Allison Holtzhauer (TGM) <aholtzhauer@greatermadawaska.com>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: RE: Question Re: Landowner Notification of Butternut Trees - Public Information Centre - Ferguson Lake Road (102.21.025)

Hi Dan,
Yes, I thought that strange. As I butternut health assessor myself I hadn't come across any privacy-related issues before. What do you need to identify my properties, roll numbers? Neither has a civic address on Ferguson Lake Road.
Thanks,
Andrew Boyd

From: Dan Hagan (Greenview) [<mailto:dan.hagan@greenview-environmental.ca>]
Sent: Thursday, June 24, 2021 3:35 PM
To: Andrew Boyd <aboyd@ifsassociates.ca>
Cc: Allison Holtzhauer (TGM) <aholtzhauer@greatermadawaska.com>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Question Re: Landowner Notification of Butternut Trees - Public Information Centre - Ferguson Lake Road (102.21.025)

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Would you be able to provide us with your address on Ferguson Lake Road and/or the pertinent property information, so that we can proceed to complete this task for you? Our apologies, we do not have your property information in our file – we only have your mailing address and email for communication purposes.

Thank you, sir -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Tara Clayton <tlcclayton@hotmail.com>
Sent: Monday, June 28, 2021 6:39 AM
To: Dan Hagan (Greenview)
Subject: Re: Response to Project Comment Form - Clayton/Little - Reconstruction of Ferguson Lake Road Project - TGM (102.21.025)

Thank you Dan.
Tara

Tara Lee Clayton BA, BSc OT Reg. (ONT)
TLC Occupational Therapy Services
Phone: 905 442 0724
Fax: 905 986 1306

From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Sent: June 16, 2021 8:14 AM
To: tlcclayton@hotmail.com <tlcclayton@hotmail.com>
Cc: Allison Holtzhauer (TGM) <aholtzhauer@greatermadawaska.com>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Response to Project Comment Form - Clayton/Little - Reconstruction of Ferguson Lake Road Project - TGM (102.21.025)

Good morning, Ms. Clayton and Mr. Little:

Thank you for providing us with your Project Comment Form by Fax, as received this morning (Jun16-21) at our Greenview office (attached).

Further to your request for available information on the Reconstruction of Ferguson Lake Road Project, all pertinent documents related to the project (including the Preliminary Design Drawings and Design Brief) are available for public download on the Township of Greater Madawaska's website at the following location:

- <https://www.greatermadawaska.com/departments/public-works/ferguson-lake-road-reconstruction-3324.html>

Additionally, a copy of the Public Information Centre (PIC) presentation is anticipated to be posted to the Township's website today.

We trust you will find this information helpful to understand the current status of the project and the next steps.

If you have any questions, please feel free to reach out to us at your convenience.

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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Sent: Tuesday, June 29, 2021 1:06 PM
To: Dan Hagan (Greenview)
Subject: RE: Question Re: Landowner Notification of Butternut Trees - Public Information Centre - Ferguson Lake Road (102.21.025)

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Sent: Thursday, June 24, 2021 3:35 PM

To: Andrew Boyd <aboyd@ifsassociates.ca>

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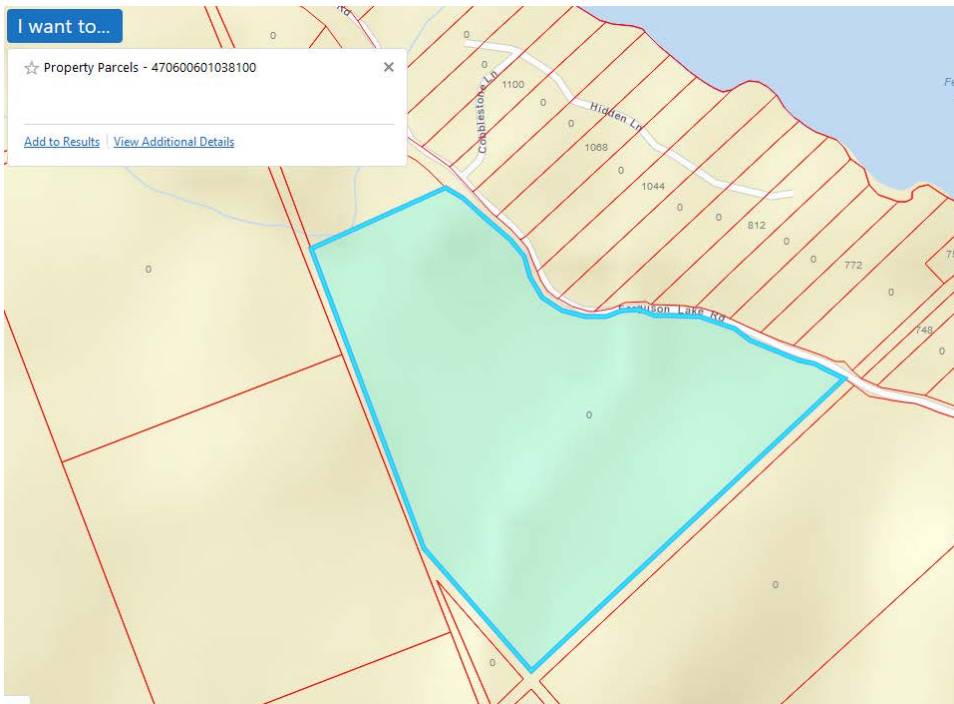
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Good morning, Mr. Boyd:

Further to our communications, I have reviewed the locations of all Category 3 (3 units) and Category 2 (2 units) documented by our Natural Heritage specialists (Ainley Group) by plotting the UTM coordinates of the Butternut Trees noted in their Butternut Health Assessment Report for the Reconstruction of Ferguson Lake Road Project into the online Renfrew County GIS web application. There were also thirty-two (32) Category 1 trees noted in their Report; however, I have not cross-referenced their locations as part of this review.

I can confirm that, based on our understanding of your two (2) properties, and the Category 3 and 2 Butternut Tree locations noted in the Butternut Health Assessment Report, that it is very unlikely that any of the five (5) Category 3 and 2 trees were observed on your properties. To the best of my assessment of this, it appears that the five (5) trees in questions are located to the northwest and southeast of your two (2) properties.

Please note that this interpretation does not exclude the possibility that your two (2) properties may have any Category 3 or 2 Butternut trees within their boundaries, it just means that there does not appear to be data obtained during the Natural Heritage Study by Ainley Group that identified those category trees on your properties within our project area scope.

I trust you will find this information to be useful.

Thank you for your interest in our project, and I wish you and yours a happy Canada Day.

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From: Andrew Boyd <forestry99@gmail.com>

Sent: Tuesday, June 29, 2021 1:06 PM

To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>

Subject: RE: Question Re: Landowner Notification of Butternut Trees - Public Information Centre - Ferguson Lake Road (102.21.025)

Dan,

Roll numbers are:

4706006010387080000

4706006010381000000

Thanks,

Andrew

From: Dan Hagan (Greenview) [<mailto:dan.hagan@greenview-environmental.ca>]
Sent: Monday, June 28, 2021 7:21 AM
To: Andrew Boyd <forestry99@gmail.com>
Cc: Allison Holtzhauer (TGM) <aholtzhauer@greatermadawaska.com>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: RE: Question Re: Landowner Notification of Butternut Trees - Public Information Centre - Ferguson Lake Road (102.21.025)

Good morning, Mr. Boyd:

Yes please, if you could forward me the roll number(s) for your property/properties I will investigate this further for you this week.

Have a great day –

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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From: Andrew Boyd <forestry99@gmail.com>
Sent: Sunday, June 27, 2021 6:32 PM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Cc: Allison Holtzhauer (TGM) <aholtzhauer@greatermadawaska.com>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: RE: Question Re: Landowner Notification of Butternut Trees - Public Information Centre - Ferguson Lake Road (102.21.025)

Hi Dan,
Yes, I thought that strange. As I butternut health assessor myself I hadn't come across any privacy-related issues before. What do you need to identify my properties, roll numbers? Neither has a civic address on Ferguson Lake Road.
Thanks,
Andrew Boyd

From: Dan Hagan (Greenview) [<mailto:dan.hagan@greenview-environmental.ca>]
Sent: Thursday, June 24, 2021 3:35 PM
To: Andrew Boyd <aboyd@ifsassociates.ca>
Cc: Allison Holtzhauer (TGM) <aholtzhauer@greatermadawaska.com>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Question Re: Landowner Notification of Butternut Trees - Public Information Centre - Ferguson Lake Road (102.21.025)

Good afternoon, Mr. Boyd:

Further to your question at the Public Information Centre (PIC) regarding whether we would be permitted to share with you any/all locations of Category 3 or 2 Butternut Trees on your property adjacent to Ferguson Lake Road, we are writing to you today to advise that we have received comments back from the Ontario Natural Heritage Information Centre – Ministry of Natural Resources and Forestry, as well as from our Natural Heritage Specialists at Ainley Group, that we are in fact permitted to share this information with you.

Based on this information, we would like to cross-reference your property (or properties) along Ferguson Lake Road against our known instances of Category 3 or 2 Butternut Trees in the project area that were identified as part of the Natural Heritage Study.

Would you be able to provide us with your address on Ferguson Lake Road and/or the pertinent property information, so that we can proceed to complete this task for you? Our apologies, we do not have your property information in our file – we only have your mailing address and email for communication purposes.

Thank you, sir -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Monday, July 5, 2021 1:29 PM
To: Kerry-Lynn Mohr
Cc: Allison Holtzhauer; Dave Mohr; Tyler Peters (GEML); Solutions - Greenview
Subject: Response to Kerry-Lynn Mohr Re: Comments on Reconstruction of Ferguson Lake Road Project - TGM (102.20.025)
Attachments: OPP Stats.pdf; Active Transportation Strategy - County of Renfrew.pdf
Importance: High

Good afternoon, Ms. Mohr:

On behalf of the Township of Greater Madawaska (Township), Greenview Environmental Management Limited (Greenview) is pleased to provide you with the following response comments relative to your submission regarding the *Reconstruction of Ferguson Lake Road Project*. Greenview has consulted with the Township and our engineering design team to provide you with the following responses:

Question	Response
Re: Posted Speed Limit	The Council of the Township of Greater Madawaska has not determined any posted speed limits for the project area of Ferguson Lake Road at this time. The determination of posted speed limits is a municipal responsibility as it relates to projects of this type.
Re: TAC	As noted during the Public Information Centre (PIC), the preliminary <i>Preferred Alternative</i> for the road reconstruction project is to be designed in a site-specific, modified, engineering-based approach based on parameters identified primarily from the <i>Pavement Design Report</i> (Ainley Group, 2020). The preliminary <i>Preferred Alternative</i> will not to be designed to TAC, with respect to road fore and back slopes, etc. This approach is understood to have fewer impacts to Species at Risk (SAR), fewer property encroachment issues, and fewer habitat impacts (terrestrial, aquatic, avian), among other factors.
Re: Average Annual Daily Traffic (AADT)	The reported AADT is consistent with the AADT submitted by the Township as part of the application for funding for the road reconstruction project.
Re: Collision History	Please see the attached, as provided by the Ontario Provincial Police (OPP).
Re: Sight Distances	The project's engineering and design team will review the identified locations in detailed design and provide as many safety improvements as possible while considering the environmental impacts and physical constraints of the site. Based on the preliminary design work completed to-date, significant vegetation clearing and significant slope regrading work is planned for the project that will directly result in improved sight lines and associated public safety improvements.
Re: Active Transportation Improvements	The 0.5m width of paved shoulders proposed for the project is consistent with the County of Renfrew's <i>Active Transportation Plan</i> , which was duly carried forward from the Township's application for funding. Please see attached for a copy of the County's <i>Active Transportation Plan</i> for your review/file.

Re: OTM Books	The project's engineering and design team have and will be reviewing OTM Books 5, 6, 7, and 11 during the detailed design stage of this project. OTM Book 18 is not part of the scope of this project. As noted above, the County's <i>Active Transportation Plan</i> is being used for this project.
Re: Single Lift (50 mm) HL4 Asphalt	The pavement design specifications are consistent with the recommendations of the <i>Pavement Design Report</i> , as prepared by the project's geotechnical engineer (Ainley Group), and are considered to be a significant enhancement over the minimum pavement design.
Re: Illumination	The addition of road illumination improvements is not part of the scope of this project, and was not included in the funding application and the agreement between the Township and the funding agency.

Thank you for your comments and interest in the Reconstruction of Ferguson Lake Road Project for the Township.

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



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From: Dan Hagan (Greenview)
Sent: Wednesday, June 16, 2021 4:03 PM
To: Kerry-Lynn Mohr <klmohr17@icloud.com>
Cc: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>; Dave Mohr <mohr812@mail.com>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: RE: Comments Ferguson Lake Road Project (102.21.025)

Good afternoon, Ms. Mohr –

Thank you for providing us with the below comments regarding the *Reconstruction of Ferguson Lake Road* project for the Township of Greater Madawaska, as well as for your participation at last night's *Public Information Centre* (PIC).

We will review your questions with our design team, and with the Township, and endeavor to provide you with a response.

In the meantime, we encourage you to review the *Preliminary Design Drawings* and *Preliminary Design Brief* for the project, available for download by the public from the Township's website:

- <https://www.greatermadawaska.com/departments/public-works/ferguson-lake-road-reconstruction-3324.html>

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



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From: Kerry-Lynn Mohr <klmohr17@icloud.com>

Sent: Wednesday, June 16, 2021 6:55 AM

To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>

Cc: Allison Holtzhauer <aholtzhauer@greatermadawaska.com>; Dave Mohr <mohr812@mail.com>

Subject: Comments Ferguson Lake Road Project

Dear Mr. Hagan,

Here are my comments:

Ferguson Lake Road is currently posted 60km/h, from the [508 to Kennelly Road](#). What will the posted limit be after the reconstruction project? Typically, a roadway is posted 10km/h to 20km/h below the design speed.

If the roadway is posted 60km/h, the same as the design speed, there is insufficient Stopping Sight Distance (SSD). TAC requires an SSD between 75-85m. It also assumes operating speeds between 55-65km/h.

What is the current operating speed of Ferguson Lake Road? Has speed data been collected, and can it be provided?

When was the traffic count conducted to determine the AADT for the roadway? Can it be provided?

Has the collision history for this roadway been reviewed for the past five years? If so what is the frequency of crashes and where?

Paving a 0.5m shoulder and calling it an improvement to active transportation and improving road safety is inaccurate. I predict operating speeds will only increase and the comfort and safety of vulnerable road users will decrease, when sight lines are not being improved.

There are sight line issues in the vicinity of the following Stations: 2+950, 4+100, 4+500, 5+100. From what I can ascertain these will not be corrected with the roadway alignment being proposed. You need to walk in the ditch at some of these locations and adding a 0.5m paved shoulder and a 0.5m gravel shoulder is not going to improve my level of safety or comfort when I'm walking or cycling. Loaded logging trucks cannot see me but thankfully I can hear them coming.

Will the OTM Books be reviewed and applied during detailed design? OTM Books 5, 6, 11 and 18? In particular OTM Book 18, the new update that WSP assisted with, speaks to cyclists in a rural environment.

Is only one lift of asphalt appropriate for loaded logging trucks? I'd like to see the traffic count data that was collected and in particular the number of heavy trucks. I anticipate that the asphalt will not withstand traffic volumes and in particular heavy vehicles for very long and we will be back to filling potholes.

There is nothing mentioned about adding illumination. To improve road safety, an intersection marker should be added to each intersection, especially at the Campground Side Road.

It would be better to make actual safety improvements and reconstruct less of the roadway than implement the design that is being recommended. I do not agree with the recommended design. More should be done to improve safety and the level of comfort for vulnerable road users.

Regards,

Kerry-Lynn Mohr

Sent from my iPhone

Dan Hagan (Greenview)

From: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>
Sent: Tuesday, July 6, 2021 3:52 PM
To: Dan Hagan (Greenview)
Subject: RE: Notice of Public Information Centre - Provincial Agencies & Authorities - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Hi Dan,

How are you? I just wanted to touch base with you as I'm just returning from maternity leave and starting to go through emails.

I do recall seeing some information on this last year before I went on leave – so I guess I'm writing to you to find out where things stand, and what you might need from MNRF right now.

Thanks!
Kristen

Kristen Wagner, B.Sc.
District Planner

Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNRF) | Pembroke District
31 Riverside Dr.
Pembroke, ON K8A 8R6

kristen.wagner@ontario.ca | Phone: (613) 504-2254



"As part of providing [accessible customer service](#), please let me know if you have any accommodation needs or require communication supports or alternate formats."

From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Sent: May-28-21 9:44 AM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Notice of Public Information Centre - Provincial Agencies & Authorities - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

CAUTION -- EXTERNAL E-MAIL - Do not click links or open attachments unless you recognize the sender.

Good morning, Provincial Agencies & Authorities:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, for your consideration, as part of the requirements of the *Schedule B Municipal Class Environmental Assessment* for the project. A copy of this submission will also be provided to you in hardcopy format, by mail (if mailing address information for your office is known).

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, your office was provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Tuesday, July 6, 2021 4:43 PM
To: Wagner, Kristen (MNRF)
Cc: Tyler Peters (GEML); Solutions - Greenview
Subject: RE: Notice of Public Information Centre - Provincial Agencies & Authorities - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)
Attachments: 102.21.025-FLR-NoticePIC-CommentForm2021-05-27-MNRF.pdf; 102.21.025 - Ferguson Lake Road - Natural Heritage Study (Ainley) - DRAFT (SR) - Nov26-20.pdf; Public Information Centre (PIC) Presentation - Reconstruction of Ferguson Lake Road - Jun15-21.pdf

Good afternoon, Kristen –

Thanks for reaching out and happy for you to be back at work – I'm sure you've had an interesting year 😊

Our MCEA Schedule B work on the *Reconstruction of Ferguson Lake Road Project* is nearing the finish line at this point. We had the *Public Information Centre* (PIC) event last month, and are moving on to the *Project File Report* now and soon we hope to be issuing the *Notice of Study Completion*.

Some pertinent information for your file:

- One of your colleagues (Karen Handford) at Pembroke District provided us with a Comment Form related to the PIC event (attached).
- We've completed the various environmental inventories for the work (specifically in the MNRF's purview would be the *Natural Heritage Study* [by Ainley Group; attached]). The draft *Natural Heritage Study* was provided to the MECP for review and comment in December 2020, with review comments received in February 2021.
- Last year we emailed back and forth with Lauren Trute at the MNRF, and she recommended we connect with the MECP – which we and our Natural Heritage specialists did as part of the *Natural Heritage Study* work.
- Also, Ainley worked with Lauren regarding fish habitat data (July 2020).
- We connected with the Natural Heritage Information Centre and the MECP regarding SAR in the project area as well (August 2020).

Between Greenview and Ainley contacting the MNRF and MECP on various topics throughout this process, I may have omitted some aspects with the bullet points above, but the *Natural Heritage Study* should be considered a pretty thorough representation of the natural environment assessment for the project.

I've also attached a copy of the PIC slide deck, in case you would like to see a summary of where we are currently in the process.

I think at this point we are pretty good with respect to everything on the MCEA Schedule B process, and our intent is to move into Detailed Design in July 2021.

Is there anything that you can think of that you and the MNRF may need at this time? I can make myself available at your convenience if you would like to discuss anything related to the project and next steps.

Have a great evening -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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From: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>
Sent: Tuesday, July 6, 2021 3:52 PM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Subject: RE: Notice of Public Information Centre - Provincial Agencies & Authorities - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Hi Dan,

How are you? I just wanted to touch base with you as I'm just returning from maternity leave and starting to go through emails.

I do recall seeing some information on this last year before I went on leave – so I guess I'm writing to you to find out where things stand, and what you might need from MNRF right now.

Thanks!
Kristen

Kristen Wagner, B.Sc.
District Planner

Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNRF) | Pembroke District
31 Riverside Dr.
Pembroke, ON K8A 8R6

kristen.wagner@ontario.ca | Phone: (613) 504-2254



"As part of providing [accessible customer service](#), please let me know if you have any accommodation needs or require communication supports or alternate formats."

From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Sent: May-28-21 9:44 AM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Notice of Public Information Centre - Provincial Agencies & Authorities - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

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Sincerely,

Dan Hagan, P.Geo.

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Dan Hagan (Greenview)

From: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>
Sent: Wednesday, July 7, 2021 5:02 PM
To: Dan Hagan (Greenview)
Cc: Tyler Peters (Greenview); Solutions - Greenview
Subject: RE: Notice of Public Information Centre - Provincial Agencies & Authorities - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Hey Dan,

Thanks for the overview! I'll take a look at everything and let you know – but I anticipate all should be good if you were in contact with Lauren.

With my position not being backfilled, I'm just trying to make sure nothing fell through the cracks and we aren't holding anything up.

Thanks!

Kristen Wagner, B.Sc.
District Planner

Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNRF) | Pembroke District
31 Riverside Dr.
Pembroke, ON K8A 8R6

kristen.wagner@ontario.ca | Phone: (613) 504-2254



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Sent: July-06-21 3:43 PM
To: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>
Cc: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: RE: Notice of Public Information Centre - Provincial Agencies & Authorities - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

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Between Greenview and Ainley contacting the MNRF and MECP on various topics throughout this process, I may have omitted some aspects with the bullet points above, but the *Natural Heritage Study* should be considered a pretty thorough representation of the natural environment assessment for the project.

I've also attached a copy of the PIC slide deck, in case you would like to see a summary of where we are currently in the process.

I think at this point we are pretty good with respect to everything on the MCEA Schedule B process, and our intent is to move into Detailed Design in July 2021.

Is there anything that you can think of that you and the MNRF may need at this time? I can make myself available at your convenience if you would like to discuss anything related to the project and next steps.

Have a great evening -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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From: Wagner, Kristen (MNRF) <Kristen.Wagner@ontario.ca>

Sent: Tuesday, July 6, 2021 3:52 PM

To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>

Subject: RE: Notice of Public Information Centre - Provincial Agencies & Authorities - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Hi Dan,

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I do recall seeing some information on this last year before I went on leave – so I guess I'm writing to you to find out where things stand, and what you might need from MNRF right now.

Thanks!
Kristen

Kristen Wagner, B.Sc.
District Planner

Ministry of Northern Development, Mines, Natural Resources and Forestry (NDMNRF) | Pembroke District
31 Riverside Dr.
Pembroke, ON K8A 8R6

kristen.wagner@ontario.ca | Phone: (613) 504-2254



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From: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>

Sent: May-28-21 9:44 AM

To: Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: Notice of Public Information Centre - Provincial Agencies & Authorities - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

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We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Andrew Boyd <forestry99@gmail.com>
Sent: Monday, July 12, 2021 1:49 PM
To: Dan Hagan (Greenview)
Cc: 'Allison Holtzhauer (TGM)'; Tyler Peters (Greenview); Solutions - Greenview
Subject: Question Re: Landowner Notification of Butternut Trees - PIC - FLR (102.21.025)

Thanks Dan. I appreciate you looking into this for me. It was a long shot I understand, but worth asking the question. I'll keep nurturing the butternut I have and maybe one day I'll be lucky enough to have a Cat 3!
Andrew

From: Dan Hagan (Greenview) [mailto:dan.hagan@greenview-environmental.ca]
Sent: Thursday, July 1, 2021 11:15 AM
To: Andrew Boyd <forestry99@gmail.com>
Cc: 'Allison Holtzhauer (TGM)' <aholtzhauer@greatermadawaska.com>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: RE: Question Re: Landowner Notification of Butternut Trees - Public Information Centre - Ferguson Lake Road (102.21.025)

Good morning, Mr. Boyd:

Further to our communications, I have reviewed the locations of all Category 3 (3 units) and Category 2 (2 units) documented by our Natural Heritage specialists (Ainley Group) by plotting the UTM coordinates of the Butternut Trees noted in their Butternut Health Assessment Report for the Reconstruction of Ferguson Lake Road Project into the online Renfrew County GIS web application. There were also thirty-two (32) Category 1 trees noted in their Report; however, I have not cross-referenced their locations as part of this review.

I can confirm that, based on our understanding of your two (2) properties, and the Category 3 and 2 Butternut Tree locations noted in the Butternut Health Assessment Report, that it is very unlikely that any of the five (5) Category 3 and 2 trees were observed on your properties. To the best of my assessment of this, it appears that the five (5) trees in questions are located to the northwest and southeast of your two (2) properties.

Please note that this interpretation does not exclude the possibility that your two (2) properties may have any Category 3 or 2 Butternut trees within their boundaries, it just means that there does not appear to be data obtained during the Natural Heritage Study by Ainley Group that identified those category trees on your properties within our project area scope.

I trust you will find this information to be useful.

Thank you for your interest in our project, and I wish you and yours a happy Canada Day.

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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From: Andrew Boyd <forestry99@gmail.com>
Sent: Tuesday, June 29, 2021 2:08 PM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Cc: 'Allison Holtzhauer (TGM)' <aholtzhauer@greatermadawaska.com>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: RE: Question Re: Landowner Notification of Butternut Trees - Public Information Centre - Ferguson Lake Road (102.21.025)

That's exactly right Dan.
Both properties hold a good number butternuts. Though, regrettably, less each year.
Andrew

From: Dan Hagan (Greenview) [<mailto:dan.hagan@greenview-environmental.ca>]
Sent: Tuesday, June 29, 2021 12:55 PM
To: Andrew Boyd <forestry99@gmail.com>
Cc: Allison Holtzhauer (TGM) <aholtzhauer@greatermadawaska.com>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: RE: Question Re: Landowner Notification of Butternut Trees - Public Information Centre - Ferguson Lake Road (102.21.025)

Hi again, Mr. Boyd:

For confirmation purposes, could you please confirm that these two (2) images from Renfrew County GIS are representative of the two (2) properties you own that we are to cross-reference with instances of Category 3 and 2 Butternut Trees, please and thank you?





Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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From: Dan Hagan (Greenview)

Sent: Tuesday, June 29, 2021 1:08 PM

To: Andrew Boyd <forestry99@gmail.com>

Cc: Allison Holtzhauer (TGM) <aholtzhauer@greatermadawaska.com>; Tyler Peters (GEML) <tyler.peters@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: RE: Question Re: Landowner Notification of Butternut Trees - Public Information Centre - Ferguson Lake Road (102.21.025)

Thanks, Mr. Boyd.

We will try and get this information cross-referenced as soon as possible and get back to you with the details.

Cheers –

Dan.

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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From: Andrew Boyd <forestry99@gmail.com>
Sent: Tuesday, June 29, 2021 1:06 PM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Subject: RE: Question Re: Landowner Notification of Butternut Trees - Public Information Centre - Ferguson Lake Road (102.21.025)

Dan,
Roll numbers are:
4706006010387080000
4706006010381000000
Thanks,
Andrew

From: Dan Hagan (Greenview) [<mailto:dan.hagan@greenview-environmental.ca>]
Sent: Monday, June 28, 2021 7:21 AM
To: Andrew Boyd <forestry99@gmail.com>
Cc: Allison Holtzhauer (TGM) <aholtzhauer@greatermadawaska.com>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: RE: Question Re: Landowner Notification of Butternut Trees - Public Information Centre - Ferguson Lake Road (102.21.025)

Good morning, Mr. Boyd:

Yes please, if you could forward me the roll number(s) for your property/properties I will investigate this further for you this week.

Have a great day –

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



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www.greenview-environmental.ca

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From: Andrew Boyd <forestry99@gmail.com>
Sent: Sunday, June 27, 2021 6:32 PM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>

Cc: Allison Holtzhauer (TGM) <aholtzhauer@greatermadawaska.com>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: RE: Question Re: Landowner Notification of Butternut Trees - Public Information Centre - Ferguson Lake Road (102.21.025)

Hi Dan,
Yes, I thought that strange. As I butternut health assessor myself I hadn't come across any privacy-related issues before. What do you need to identify my properties, roll numbers? Neither has a civic address on Ferguson Lake Road.
Thanks,
Andrew Boyd

From: Dan Hagan (Greenview) [<mailto:dan.hagan@greenview-environmental.ca>]
Sent: Thursday, June 24, 2021 3:35 PM
To: Andrew Boyd <aboyd@ifsassociates.ca>
Cc: Allison Holtzhauer (TGM) <aholtzhauer@greatermadawaska.com>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Question Re: Landowner Notification of Butternut Trees - Public Information Centre - Ferguson Lake Road (102.21.025)

Good afternoon, Mr. Boyd:

Further to your question at the Public Information Centre (PIC) regarding whether we would be permitted to share with you any/all locations of Category 3 or 2 Butternut Trees on your property adjacent to Ferguson Lake Road, we are writing to you today to advise that we have received comments back from the Ontario Natural Heritage Information Centre – Ministry of Natural Resources and Forestry, as well as from our Natural Heritage Specialists at Ainley Group, that we are in fact permitted to share this information with you.

Based on this information, we would like to cross-reference your property (or properties) along Ferguson Lake Road against our known instances of Category 3 or 2 Butternut Trees in the project area that were identified as part of the Natural Heritage Study.

Would you be able to provide us with your address on Ferguson Lake Road and/or the pertinent property information, so that we can proceed to complete this task for you? Our apologies, we do not have your property information in our file – we only have your mailing address and email for communication purposes.

Thank you, sir -

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



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www.greenview-environmental.ca

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Dan Hagan (Greenview)

From: Marnie Peters <peters.marnie@gmail.com>
Sent: Monday, July 12, 2021 12:52 PM
To: Dan Hagan (Greenview)
Cc: Solutions - Greenview; Tyler Peters (Greenview)
Subject: Meeting Link for PIC - Reconstruction of FLR Project - TGM

Hi Dan,

Hope you're well and having a good summer so far.

Sorry I wasn't able to participate in the open house. I was called into co-chairing my own public consultation meeting for a project in the City.

I wanted to follow up with you in regards to the project numbers. It is indicated that only 15% of traffic is truck traffic - this is inaccurate, the number is probably closer to 25- 30%. I work from home, and can hear all traffic on the road from my office - both cars and trucks. And this is a heavily used, heavy truck route - primarily logging trucks, but also as a shortcut for Cavanaugh, Selle Stone and Gravel, Valley, etc. It is also important to note, that particularly in the summer, there are a lot of vehicles towing trailers, there is a high number of pick-ups towing camping trailers, boats, trails with ATVs, trailers with garbage/construction waste. There is a lot more heavy traffic than you might imagine for a small country route.

The stretch of road immediately past campground sideroad in front of my house, is also used by vehicles for passing, as it is the only straight stretch of road - so vehicle speeds very often exceed 70 km hr. Trucks because they've just come off of a windy downhill run, and vehicles, because its a straight run.

There are many people along this stretch of road who are active in the design/build of roadways, bridges and active transportation facilities, so are quite used to reading drawings and assessing traffic information - so are very interested in this development/change to our community roadway.

There are also children, as well as people with disabilities using the route, and anything that increases speeds is of great concern.

The community would appreciate the opportunity to review the DD drawings if at all possible.

Cheers
Marnie

On Mon, Jun 14, 2021 at 3:10 PM Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca> wrote:

Good afternoon, Interested Stakeholders:

Please find the attached meeting link to the *Public Information Centre (PIC)* for the *Reconstruction of Ferguson Lake Road Project*, in the Township of Greater Madawaska (Township):

Public Information Centre - Reconstruction of Ferguson Lake Road

Township of Greater Madawaska

Date: Tuesday, June 15, 2021

Time: 7:00 p.m.

Join on your computer or mobile app

[Click here to join the meeting](#)

[Learn More](#) | [Meeting options](#)

Relevant documentation pertaining to the project is to be published on the Township's website in advance of the PIC event, for public viewing at:

- <https://www.gretermadawaska.com/departments/public-works/ferguson-lake-road-reconstruction-3324.html>

You have been provided with this meeting link for the PIC event, based on previous communications to the Township in response to the *Notice of Public Information Centre* for the project, as below.

Notice of Public Information Centre

Reconstruction of Ferguson Lake Road Project Schedule B - Municipal Class Environmental Assessment

The Township of Greater Madawaska is undertaking a study to determine the most suitable alternative to reconstruct 5.7 km of Ferguson Lake Road, from approximately Campground Side Road to Kennelly Mountain Road. The project is being implemented in order to improve road safety, efficiency, drainage, and active transportation uses. This Notice has been issued in order to notify the public of the upcoming *Public Information Centre*.

How Might This Project Impact Me?

The study has been undertaken in accordance with a Schedule B Undertaking of the Municipal Class Environmental Assessment (MCEA, 2015), as amended. The Schedule B – MCEA study for Ferguson Lake Road has considered and assessed reconstruction alternatives, and the associated potential for impacts on the study area from each alternative.

At this time, careful consideration of the potential impacts of all alternatives have been reviewed by the Township. An initial determination of a *Preferred Alternative* for the reconstruction of Ferguson Lake Road has been made by Municipal Council based on the results of various studies completed, and input from agencies, the public, Indigenous Communities, and other interested parties.



Details on the Public Information Centre

The public is invited to join the Township for a virtual *Public Information Centre* event to be informed on the results of the Schedule B – MCEA study, including results of the various studies completed, design alternatives that were considered, and the initial determination on the *Preferred Alternative* for the reconstruction of Ferguson Lake Road, as identified by the Township. The *Public Information Centre* is planned to occur per the following details:

Date: Tuesday, June 15, 2021

Time: 7:00 p.m.

Due to the on-going COVID-19 Pandemic and related restrictions on public gatherings, the *Public Information Centre* is planned to be conducted as a virtual event only. If you are interested in joining the Township for the *Public Information Centre*, or would like additional information on this project, please contact the undersigned in order to be provided with access details for the event:

Owner:
Township of Greater Madawaska
Allison Holtzhauer
CAO/Clerk-Treasurer
19 Parnell Street
Calabogie, Ontario K0J 1H0
Tel: 613-752-2222
E-mail: cao@greatermadawaska.com

Prime Consultant:
Greenview Environmental Management Limited
Tyler Peters, P.Eng.
Project Director
13 Commerce Court
Bancroft, Ontario K0L 1C0
Tel: 613-332-0057
E-mail: solutions@greenview-environmental.ca

NOTICE:
Respondents should note that information collected for this study will be subject to the *Freedom of Information and Protection of Privacy Act*. With the exception of personal information, all comments received will become part of the public record and may be included in the study documentation prepared for public review.

Following the *Public Information Centre*, comments will be received by the Township until June 29, 2021. After the comment period, the Township intends to proceed with a *Project File Report*, to be placed on the public record for a minimum 30-day review period, per the requirements of the MCEA process.

This Notice is Issued May 27, 2021

Allison Holtzhauer
CAO/Clerk-Treasurer, Township of Greater Madawaska



Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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--

Marnie Peters

www.AccessibilitySimplified.com



Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Wednesday, July 14, 2021 9:04 AM
To: Marnie Peters
Cc: Solutions - Greenview; Tyler Peters (Greenview); Allison Holtzhauer (TGM)
Subject: Meeting Link for PIC - Reconstruction of FLR Project - TGM (102.21.025)

Good morning, Ms. Peters:

Thanks for reaching out. We appreciate your interest in this project.

With respect to your information regarding traffic along Ferguson Lake Road in your area, we note that the information on the AADT for the road was provided to Greenview by the Township, and those values are what was used for the project. At this time, that is the most recent information available for the road.

Additionally, we want to assure you that all public comments received as part of the Municipal Class Environmental Assessment (MCEA) Schedule B process for the Reconstruction of Ferguson Lake Road project are reviewed and considered, and will be considered during the detailed design process for the project.

Sincerely,

Dan Hagan, P. Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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From: Marnie Peters <peters.marnie@gmail.com>
Sent: Monday, July 12, 2021 12:52 PM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Subject: Re: Meeting Link for Public Information Centre (PIC) - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Hi Dan,

Hope you're well and having a good summer so far.

Sorry I wasn't able to participate in the open house. I was called into co-chairing my own public consultation meeting for a project in the City.

I wanted to follow up with you in regards to the project numbers. It is indicated that only 15% of traffic is truck traffic - this is inaccurate, the number is probably closer to 25- 30%. I work from home, and can hear all traffic on the road from my office - both cars and trucks. And this is a heavily used, heavy truck route - primarily logging trucks, but also as a shortcut for Cavanaugh, Selle Stone and Gravel, Valley, etc. It is also important to note, that particularly in the summer, there are a lot of vehicles towing trailers, there is a high number of pick-ups towing camping trailers, boats, trails with

ATVs, trailers with garbage/construction waste. There is a lot more heavy traffic than you might imagine for a small country route.

The stretch of road immediately past campground sideroad in front of my house, is also used by vehicles for passing, as it is the only straight stretch of road - so vehicle speeds very often exceed 70 km hr. Trucks because they've just come off of a windy downhill run, and vehicles, because its a straight run.

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There are also children, as well as people with disabilities using the route, and anything that increases speeds is of great concern.

The community would appreciate the opportunity to review the DD drawings if at all possible.

Cheers
Marnie

On Mon, Jun 14, 2021 at 3:10 PM Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca> wrote:

Good afternoon, Interested Stakeholders:

Please find the attached meeting link to the *Public Information Centre* (PIC) for the *Reconstruction of Ferguson Lake Road Project*, in the Township of Greater Madawaska (Township):

Public Information Centre - Reconstruction of Ferguson Lake Road

Township of Greater Madawaska

Date: Tuesday, June 15, 2021

Time: 7:00 p.m.

Join on your computer or mobile app

[Click here to join the meeting](#)

[Learn More](#) | [Meeting options](#)

Relevant documentation pertaining to the project is to be published on the Township's website in advance of the PIC event, for public viewing at:

- <https://www.gretermadawaska.com/departments/public-works/ferguson-lake-road-reconstruction-3324.html>

You have been provided with this meeting link for the PIC event, based on previous communications to the Township in response to the *Notice of Public Information Centre* for the project, as below.

Notice of Public Information Centre

Reconstruction of Ferguson Lake Road Project Schedule B - Municipal Class Environmental Assessment

The Township of Greater Madawaska is undertaking a study to determine the most suitable alternative to reconstruct 5.7 km of Ferguson Lake Road, from approximately Campground Side Road to Kennelly Mountain Road. The project is being implemented in order to improve road safety, efficiency, drainage, and active transportation uses. This Notice has been issued in order to notify the public of the upcoming *Public Information Centre*.

How Might This Project Impact Me?

The study has been undertaken in accordance with a Schedule B Undertaking of the Municipal Class Environmental Assessment (MCEA, 2015), as amended. The Schedule B – MCEA study for Ferguson Lake Road has considered and assessed reconstruction alternatives, and the associated potential for impacts on the study area from each alternative.

At this time, careful consideration of the potential impacts of all alternatives have been reviewed by the Township. An initial determination of a *Preferred Alternative* for the reconstruction of Ferguson Lake Road has been made by Municipal Council based on the results of various studies completed, and input from agencies, the public, Indigenous Communities, and other interested parties.



Details on the Public Information Centre

The public is invited to join the Township for a virtual *Public Information Centre* event to be informed on the results of the Schedule B – MCEA study, including results of the various studies completed, design alternatives that were considered, and the initial determination on the *Preferred Alternative* for the reconstruction of Ferguson Lake Road, as identified by the Township. The *Public Information Centre* is planned to occur per the following details:

Date: Tuesday, June 15, 2021

Time: 7:00 p.m.

Due to the on-going COVID-19 Pandemic and related restrictions on public gatherings, the *Public Information Centre* is planned to be conducted as a virtual event only. If you are interested in joining the Township for the *Public Information Centre*, or would like additional information on this project, please contact the undersigned in order to be provided with access details for the event:

Owner:
Township of Greater Madawaska
Allison Holtzhauer
CAO/Clerk-Treasurer
19 Parnell Street
Calabogie, Ontario K0J 1H0
Tel: 613-752-2222
E-mail: cao@greatermadawaska.com

Prime Consultant:
Greenview Environmental Management Limited
Tyler Peters, P.Eng.
Project Director
13 Commerce Court
Bancroft, Ontario K0L 1C0
Tel: 613-332-0057
E-mail: solutions@greenview-environmental.ca

NOTICE:
Respondents should note that information collected for this study will be subject to the *Freedom of Information and Protection of Privacy Act*. With the exception of personal information, all comments received will become part of the public record and may be included in the study documentation prepared for public review.

Following the *Public Information Centre*, comments will be received by the Township until June 29, 2021. After the comment period, the Township intends to proceed with a *Project File Report*, to be placed on the public record for a minimum 30-day review period, per the requirements of the MCEA process.

This Notice is Issued May 27, 2021

Allison Holtzhauer
CAO/Clerk-Treasurer, Township of Greater Madawaska



Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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--

Marnie Peters

www.AccessibilitySimplified.com



Dan Hagan (Greenview)

From: Stavinga, Janet (Algonquins Of Ontario) <jstavinga@tanakiwin.com>
Sent: Thursday, July 15, 2021 7:15 AM
To: Dan Hagan (Greenview)
Cc: Parker, Trevor (Algonquins Of Ontario); Orpana, Jon (MECP); Solutions - Greenview
Subject: Township of Greater Madawaska Reconstruction of Ferguson Lake Road (Our File CP 78-66-2)
Attachments: Item 23a_Email_Hagan_Greenview_Notice of Public Information Centre - Reconstruction of Ferguson Lake Road Project (102.21.025)_20210528_w_Att.pdf

Good morning Mr. Hagan,

Thank you for your correspondence on behalf of Township of Greater Madawaska with the notice of Public Information Centre and related Comment Form regarding the reconstruction of the Ferguson Lake Road Project, dated May 28, 2021 (attached for your convenience).

Please be advised that the Algonquins of Ontario have no comment in response to the reconstruction of the Ferguson Lake Road Project.

Should you have any further questions, please do not hesitate to contact Trevor Parker, our Land and Resource Management Strategist at the above noted email address.

Sincerely,

Janet Stavinga

****Important Notice****

In light of the ongoing developments resulting from the novel Coronavirus (COVID-19), the Algonquins of Ontario are taking proactive steps to keep our employees and workplace safe and secure. **Effective Monday, March 16, 2020 the AOO Consultation Office will be closed until further notice.**

During this time, to maintain our business continuity, we will be monitoring emails and will respond when possible.

Thank you for your patience, understanding and support.

Janet Stavinga
Executive Director

Algonquins of Ontario Consultation Office

31 Riverside Drive, Suite 101
Pembroke, ON K8A 8R6
Tel: 613-735-3759
Fax: 613-735-6307
Email: jstavinga@tanakiwin.com
Website: www.tanakiwin.com

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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Friday, July 16, 2021 8:50 AM
To: Stavinga, Janet (Algonquins Of Ontario)
Cc: Parker, Trevor (Algonquins Of Ontario); Orpana, Jon (MECP); Solutions - Greenview; Allison Holtzhauer (TGM)
Subject: RE: Township of Greater Madawaska Reconstruction of Ferguson Lake Road (Our File CP 78-66-2)

Good morning, Ms. Stavinga,
Executive Director, Algonquins of Ontario:

Happy Friday and thank you so much for providing the Township of Greater Madawaska and Greenview Environmental Management with a response on behalf of Algonquins of Ontario relative to the *Reconstruction of Ferguson Lake Road Project* and the related Municipal Class Environmental Assessment (MCEA) Schedule B process. We very much value your input on this very important project.

Per your request, we will add Mr. Parker, Land and Resource Management Strategist from Algonquins of Ontario to the project's contact list, and ensure that you both are provided with copies of the *Project File Report* and *Notice of Study Completion* at the time they are issued.

Thanks again and have a great day -

Sincerely,

Dan Hagan, P.Geol.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

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From: Stavinga, Janet (Algonquins Of Ontario) <jstavinga@tanakiwin.com>
Sent: Thursday, July 15, 2021 7:15 AM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Cc: Parker, Trevor (Algonquins Of Ontario) <tparker@tanakiwin.com>; Orpana, Jon (MECP) <jon.orpana@ontario.ca>; Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Township of Greater Madawaska Reconstruction of Ferguson Lake Road (Our File CP 78-66-2)

Good morning Mr. Hagan,

Thank you for your correspondence on behalf of Township of Greater Madawaska with the notice of Public Information Centre and related Comment Form regarding the reconstruction of the Ferguson Lake Road Project, dated May 28, 2021 (attached for your convenience).

Please be advised that the Algonquins of Ontario have no comment in response to the reconstruction of the Ferguson Lake Road Project.

Should you have any further questions, please do not hesitate to contact Trevor Parker, our Land and Resource Management Strategist at the above noted email address.

Sincerely,

Janet Stavinga

****Important Notice****

In light of the ongoing developments resulting from the novel Coronavirus (COVID-19), the Algonquins of Ontario are taking proactive steps to keep our employees and workplace safe and secure. **Effective Monday, March 16, 2020 the AOO Consultation Office will be closed until further notice.**

During this time, to maintain our business continuity, we will be monitoring emails and will respond when possible.

Thank you for your patience, understanding and support.

Janet Stavinga
Executive Director

Algonquins of Ontario Consultation Office

31 Riverside Drive, Suite 101
Pembroke, ON K8A 8R6
Tel: 613-735-3759
Fax: 613-735-6307
Email: jstavinga@tanakiwin.com
Website: www.tanakiwin.com

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Dan Hagan (Greenview)

From: Monica Sanford <msanford@scugogfirstnation.com>
Sent: Tuesday, July 20, 2021 3:13 PM
To: Solutions - Greenview
Subject: Reconstruction of Ferguson Lake Road Project Comment Form
Attachments: 20210720_Project Comment Form.pdf

Hello Mr. Peters.

Sorry about the lateness of returning the comment form. I only go to the office to pick up mail bi-weekly.

Stay Safe and Healthy

In Spirit of Kindness

Monica Sanford

Indian Registration Administrator and
Consultation & Lands Administrative Assistant

Project Comment Form

Re: Notice of Public Information Centre
Reconstruction of Ferguson Lake Road Project
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.21.025

Please refer to the provided information and Notice of Public Information Centre associated with the above-noted project.

Name: Monica Sanford
Agency (if applicable): Mississaugas of Scugog Island First Nation
Address: 22521 Island Road, Port Perry, ON, L9L 1B6
Email: msanford@scugogfirstnation.com

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☒ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☐ I/We wish to be involved further in the project as noted below:

msanford
Signature

Please return this completed form by **June 29, 2021** to:

Mr. Tyler Peters, P. Eng.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Fax: 866-905-8873
Tel: 613-332-0057

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.



Council Resolution Form

Date: 19 Jul 2021 No: Resolution No.167-21
Moved By: Councillor Frost, Seconded by Disposition: CARRIED.
Councillor Rigelhof
Item No: 3.07.2

Description: Reconstruction of Ferguson Lake Road Project – Tyler Peters

RESOLUTION:

Be it resolved,

THAT the Council of the Township of Greater Madawaska confirms their determination of the Preferred Solution for the road reconstruction project as Alternative 3 - Split 60 & 70 km/hr Design Speed Alignment (Modified), as noted in the Project File Report.

And THAT, the Council of the Township of Greater Madawaska has reviewed the Project File Report for the Municipal Class Environmental Assessment (MCEA) Schedule B process related to the Reconstruction of Ferguson Lake Road Project (Phase 1) and directs staff to finalize and post the Project File Report (and associated Noticed of Study Completion) to the public record for the prescribed comment period, all in accordance with the requirements of the MCEA Schedule B process.

Recorded Vote Requested by:

	Yea	Nay
B. Hunt	_____	_____
L. Perrier	_____	_____
C. Rigelhof	_____	_____
J. Frost	_____	_____
G. MacPherson	_____	_____


MAYOR

Declaration of Pecuniary Interest:

Disclosed his/her/their interest(s), vacated he/her/their seat(s),
abstained from discussion and did not vote

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Wednesday, July 21, 2021 2:08 PM
To: msanford@scugogfirstnation.com
Cc: Tyler Peters (Greenview); Solutions - Greenview
Subject: RE: Reconstruction of Ferguson Lake Road Project Comment Form

Good afternoon, Ms. Sanford,
Indian Registration Administrator and Consultation & Lands Administrative Assistant, Mississaugas of Scugog First Nation:

Thank you so much for providing the Township of Greater Madawaska and Greenview Environmental Management with a response on behalf of the Mississaugas of Scugog First Nation relative to the *Reconstruction of Ferguson Lake Road Project* and the related Municipal Class Environmental Assessment (MCEA) Schedule B process. We very much value your input on this very important project.

Per your request, we will ensure that you are provided with copies of the *Project File Report* and *Notice of Study Completion* at the time they are issued.

Have a great day and be well -

Sincerely,

Dan Hagan, P.Geo.
Senior Project Manager / Geologist



613.332.0057 x 105
www.greenview-environmental.ca

This e-mail message (including attachments, if any) is confidential and may be privileged. Any unauthorized distribution or disclosure is prohibited. Disclosure to anyone other than the intended recipient does not constitute waiver of privilege. If you have received this e-mail in error, please notify us and delete it and any attachments from your computer system and records.

From: Celine Boutin (Greenview) <celine.boutin@greenview-environmental.ca>
Sent: Wednesday, July 21, 2021 9:11 AM
To: Dan Hagan (Greenview) <dan.hagan@greenview-environmental.ca>
Cc: Tyler Peters (Greenview) <tyler.peters@greenview-environmental.ca>
Subject: FW: Reconstruction of Ferguson Lake Road Project Comment Form

If you have any questions regarding this message, please contact me.

Sincerely,

Celine Boutin
Office Administrator



613.332.0057 x 101

www.greenview-environmental.ca

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From: Monica Sanford <msanford@scugogfirstnation.com>
Sent: July-20-21 2:13 PM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Reconstruction of Ferguson Lake Road Project Comment Form

Hello Mr. Peters.

Sorry about the lateness of returning the comment form. I only go to the office to pick up mail bi-weekly.

Stay Safe and Healthy

In Spirit of Kindness

Monica Sanford

Indian Registration Administrator and
Consultation & Lands Administrative Assistant

Notice of Study Completion

Reconstruction of Ferguson Lake Road Project (Phase I) Schedule B - Municipal Class Environmental Assessment

The Township of Greater Madawaska has completed the undertaking of a study to determine the most suitable alternative to reconstruct 5.7 km of Ferguson Lake Road, from approximately Campground Side Road to Kennelly Mountain Road. The project was implemented in order to improve road safety, efficiency, drainage, and active transportation uses. This Notice has been issued in order to notify the public of the study's completion.

How Might This Project Impact Me?

The study has been undertaken in accordance with a Schedule B Undertaking of the Municipal Class Environmental Assessment (MCEA, 2015), as amended. The Schedule B – MCEA study for Ferguson Lake Road has considered and assessed reconstruction alternatives, and the associated potential for impacts on the study area from each alternative.

In accordance with Township of Greater Madawaska *Council Resolution No. 167-21*, and based on careful consideration of the potential impacts of all alternatives, Municipal Council has confirmed the determination of the *Preferred Alternative* for the reconstruction of Ferguson Lake Road.

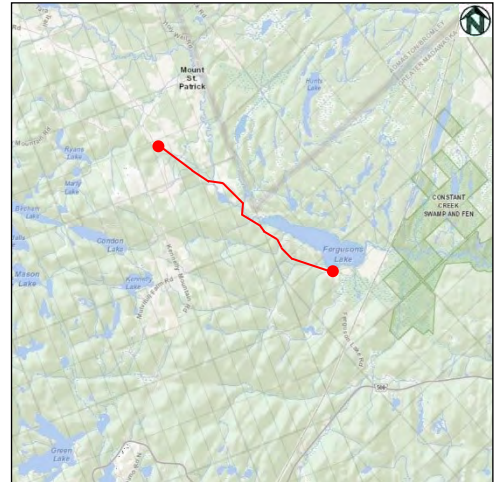
As part of this *Notice of Study Completion*, the *Preferred Alternative* for the road reconstruction project has been identified as:

Alternative #3 – Split 60 & 70 km/hr Design Speed Alignment (Modified)

This alternative involves a design speed of 60 km/hr from approximately Campground Side Road to Constant Creek Bridge, and a 70 km/hr design speed from Constant Creek Bridge to Kennelly Mountain Road.

The *Preferred Alternative* has been made by Municipal Council based on the results of the various studies completed, and input from agencies, the public, Indigenous Communities, and other interested parties.

As required by the MCEA Schedule B process, a *Project File Report* has been prepared, and has been posted for public review and comment at Township of Greater Madawaska's Website (<https://www.greatermadawaska.com/>).



Next Steps in the MCEA Schedule B Process

In accordance with the requirements of the MCEA Schedule B process, the Township is required to post the *Project File Report* for the *Reconstruction of Ferguson Lake Road Project (Phase 1)* to the public record for a thirty (30) day period. Detailed design work for the project will follow the thirty (30) day public review period.

Per the requirements of the Ontario Ministry of the Environment, Conservation, and Parks (January 05, 2021):

Interested persons may provide written comments to our project team by **August 21, 2021**. All comments and concerns should be sent directly to the Township of Greater Madawaska and Greenview Environmental Management Limited:

Owner:
Township of Greater Madawaska
Allison Holtzhauer
CAO/Clerk-Deputy Treasurer
19 Parnell Street
Calabogie, Ontario K0J 1H0
Tel: 613-752-2222
E-mail: cao@greatermadawaska.com

Prime Consultant:
Greenview Environmental Management Limited
Dan Hagan, P.Geo.
Senior Project Manager / Geologist
13 Commerce Court
Bancroft, Ontario K0L 1C0
Tel: 613-332-0057
E-mail: solutions@greenview-environmental.ca

In addition, a request may be made to the Ministry of the Environment, Conservation and Parks for an order requiring a higher level of study (i.e. requiring an individual/comprehensive Environmental Assessment approval before being able to proceed), or that conditions be imposed (e.g. require further studies), only on the grounds that the requested order may prevent, mitigate or remedy adverse impacts on constitutionally protected Aboriginal and treaty rights. Requests on other grounds will not be considered. Requests should include the requester contact information and full name.

Requests should specify what kind of order is being requested (request for conditions or a request for an individual/comprehensive environmental assessment), how an order may prevent, mitigate or remedy potential adverse impacts on Aboriginal and treaty rights, and any information in support of the statements in the request. This will ensure that the ministry is able to efficiently begin reviewing the request.

The request should be sent in writing or by email to:

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

and

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

Requests should also be copied to the CAO/Clerk-Deputy Treasurer at the Township of Greater Madawaska by mail or by e-mail. Please visit the ministry's website for more information on requests for orders under section 16 of the *Environmental Assessment Act* at:

<https://www.ontario.ca/page/class-environmental-assessments-part-ii-order>

All personal information included in your request – such as name, address, telephone number and property location – is collected, under the authority of Section 30 of the *Environmental Assessment Act* and is collected and maintained for the purpose of creating a record that is available to the general public. As this information is collected for the purpose of a public record, the protection of personal information provided in the *Freedom of Information and Protection of Privacy Act* (FIPPA) does not apply (s.37). 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.

This Notice is Issued July 22, 2021

Allison Holtzhauer
CAO/Clerk-Deputy Treasurer, Township of Greater Madawaska

Project Comment Form

**Re: Notice of Study Completion
Reconstruction of Ferguson Lake Road Project (Phase I)
Municipal Class Environmental Assessment (Schedule B)
Township of Greater Madawaska, County of Renfrew, Ontario
Greenview File: 102.21.025**

Please refer to the provided information and Notice of Study Completion associated with the above-noted project.

Name: _____
Agency (if applicable): _____
Address: _____
Email: _____

Based on the provided information, please advise as follows:

- ☐ I/We have no further interest in this project and can be removed from the project mailing list.
- ☐ I/We have no concerns or comments about the project at this time but wish to be kept informed about the progress of the project.
- ☐ I/We will be providing information and/or comment pertaining to this project under separate cover.
- ☐ I/We wish to be involved further in the project as noted below:

Signature

Please return this completed form by **August 21, 2021** to:

**Mr. Dan Hagan, P.Geo.
Greenview Environmental Management Limited
13 Commerce Court, PO Box 100
Bancroft, Ontario, K0L 1C0
Email: solutions@greenview-environmental.ca
Tel: 613-332-0057**

Please note that comments and information gathered during the completion of this Study are used to assist in the completion of an effective consultation program with any/all interested parties. With the exception of personal information, all comments will become part of the public record for this project.

Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, July 22, 2021 1:47 PM
To: Solutions - Greenview
Cc: Allison Holtzhauer (TGM)
Subject: Notice of Study Completion - Provincial Agencies & Authorities - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Study Completion - FINAL - Jul22-21.pdf; 102.21.025 - FLR - Notice of Study Completion - Comment Form - FINAL - Jul22-21.pdf

Good afternoon, Provincial Agencies & Authorities:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project (Phase I)* and the *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Study Completion* and related *Comment Form*.

This information has been sent directly to you via email, for your consideration, as part of the requirements of the *Schedule B Municipal Class Environmental Assessment* for the project. A copy of this submission will also be provided to you in hardcopy format, by mail (if mailing address information for your office is known).

A copy of the *Project File Report* for the *Schedule B Municipal Class Environmental Assessment* of the *Reconstruction of Ferguson Lake Road Project (Phase I)* will be available for public review later today on the Township's website at:

- <https://www.greatermadawaska.com/>

This submission is intended to fulfill the requirements of Point of Contact #3 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, your office was provided with Point of Contact #1 and #2, the *Notice of Study Commencement* (in June 2020) and the *Notice of Public Information Centre* (in May 2021).

We look forward to any comments you may have by the August 21, 2021 submission date.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:44 AM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Notice of Public Information Centre - Provincial Agencies & Authorities - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Good morning, Provincial Agencies & Authorities:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Attachments: 102.21.025 - FLR - Notice of Study Completion - FINAL - Jul22-21.pdf; 102.21.025 - FLR - Notice of Study Completion - Comment Form - FINAL - Jul22-21.pdf

Good afternoon, Federal Agencies & Authorities:

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Sent: Friday, May 28, 2021 10:44 AM

To: Solutions - Greenview <solutions@greenview-environmental.ca>

Subject: Notice of Public Information Centre - Federal Agencies & Authorities - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

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We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, July 22, 2021 1:48 PM
To: Solutions - Greenview
Cc: Allison Holtzhauer (TGM)
Subject: Notice of Study Completion - Upper/Lower Tier Municipalities & Emergency Services - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Study Completion - FINAL - Jul22-21.pdf; 102.21.025 - FLR - Notice of Study Completion - Comment Form - FINAL - Jul22-21.pdf

Good afternoon, Upper/Lower Tier Municipalities & Emergency Services:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project (Phase I)* and the *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Study Completion* and related *Comment Form*.

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- <https://www.greatermadawaska.com/>

This submission is intended to fulfill the requirements of Point of Contact #3 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, your office was provided with Point of Contact #1 and #2, the *Notice of Study Commencement* (in June 2020) and the *Notice of Public Information Centre* (in May 2021).

We look forward to any comments you may have by the August 21, 2021 submission date.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:45 AM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Notice of Public Information Centre - Upper/Lower Tier Municipalities & Emergency Services - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Good morning, Upper/Lower Tier Municipalities & Emergency Services:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, July 22, 2021 1:48 PM
To: Solutions - Greenview
Cc: Allison Holtzhauer (TGM)
Subject: Notice of Study Completion - Bell Canada & Hydro One Networks - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Study Completion - FINAL - Jul22-21.pdf; 102.21.025 - FLR - Notice of Study Completion - Comment Form - FINAL - Jul22-21.pdf

Good afternoon, Bell Canada & Hydro One Networks:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project (Phase I)* and the *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Study Completion* and related *Comment Form*.

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- <https://www.greatermadawaska.com/>

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Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Sincerely,

Dan Hagan, P.Geo.

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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, July 22, 2021 1:49 PM
To: dmowat@alderville.ca; js smoke@alderville.ca
Cc: Solutions - Greenview; Orpana, Jon (MECP)
Subject: Notice of Study Completion - Alderville First Nation - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Study Completion - FINAL - Jul22-21.pdf; 102.21.025 - FLR - Notice of Study Completion - Comment Form - FINAL - Jul22-21.pdf

Good afternoon, Alderville First Nation:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project (Phase I)* and the *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Study Completion* and related *Comment Form*.

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We look forward to any comments you may have by the August 21, 2021 submission date.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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From: Dan Hagan (Greenview)

Sent: Friday, May 28, 2021 10:51 AM

To: dmowat@alderville.ca; js smoke@alderville.ca

Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Orpana, Jon (MECP) <jon.orpana@ontario.ca>

Subject: Notice of Public Information Centre - Alderville First Nation - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Good morning, Alderville First Nation:

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Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, July 22, 2021 1:48 PM
To: 'algonquins@tanakiwin.com'; 'Stavinga, Janet (Algonquins Of Ontario)'
Cc: Solutions - Greenview; Orpana, Jon (MECP)
Subject: Notice of Study Completion - Algonquins of Ontario - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Study Completion - FINAL - Jul22-21.pdf; 102.21.025 - FLR - Notice of Study Completion - Comment Form - FINAL - Jul22-21.pdf

Good afternoon, Algonquins of Ontario:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project (Phase I)* and the *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Study Completion* and related *Comment Form*.

This information has been sent directly to you via email, for your consideration, as part of the requirements of the *Schedule B Municipal Class Environmental Assessment* for the project. A copy of this submission will also be provided to you in hardcopy format, by mail.

A copy of the *Project File Report* for the *Schedule B Municipal Class Environmental Assessment* of the *Reconstruction of Ferguson Lake Road Project (Phase I)* will be available for public review later today on the Township's website at:

- <https://www.greatermadawaska.com/>

This submission is intended to fulfill the requirements of Point of Contact #3 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, you were provided with Point of Contact #1 and #2, the *Notice of Study Commencement* (in June 2020) and the *Notice of Public Information Centre* (in May 2021).

We look forward to any comments you may have by the August 21, 2021 submission date.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

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From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:52 AM
To: algonquins@tanakiwin.com
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Orpana, Jon (MECP) <jon.orpana@ontario.ca>
Subject: Notice of Public Information Centre - Algonquins of Ontario - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Good morning, Algonquins of Ontario:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, for your consideration, as part of the requirements of the *Schedule B Municipal Class Environmental Assessment* for the project. A copy of this submission will also be provided to you in hardcopy format, by mail.

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, your office was provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, July 22, 2021 1:49 PM
To: bafn@nrtco.net
Cc: Solutions - Greenview; Orpana, Jon (MECP)
Subject: Notice of Study Completion - Bonnechere Algonquin First Nation - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Study Completion - FINAL - Jul22-21.pdf; 102.21.025 - FLR - Notice of Study Completion - Comment Form - FINAL - Jul22-21.pdf

Good afternoon, Bonnechere Algonquin First Nation:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project (Phase I)* and the *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Study Completion* and related *Comment Form*.

This information has been sent directly to you via email, for your consideration, as part of the requirements of the *Schedule B Municipal Class Environmental Assessment* for the project. A copy of this submission will also be provided to you in hardcopy format, by mail.

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- <https://www.greatermadawaska.com/>

This submission is intended to fulfill the requirements of Point of Contact #3 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, you were provided with Point of Contact #1 and #2, the *Notice of Study Commencement* (in June 2020) and the *Notice of Public Information Centre* (in May 2021).

We look forward to any comments you may have by the August 21, 2021 submission date.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:54 AM
To: bafn@nrtco.net
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Orpana, Jon (MECP) <jon.orpana@ontario.ca>
Subject: Notice of Public Information Centre - Bonnechere Algonquin First Nation - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Good morning, Bonnechere Algonquin First Nation:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, your office was provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, July 22, 2021 1:49 PM
To: EmilyW@curvelake.ca; GeneralManager@curvelake.ca
Cc: Solutions - Greenview; Orpana, Jon (MECP)
Subject: Notice of Study Completion - Curve Lake First Nation - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Study Completion - FINAL - Jul22-21.pdf; 102.21.025 - FLR - Notice of Study Completion - Comment Form - FINAL - Jul22-21.pdf

Good afternoon, Curve Lake First Nation:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project (Phase I)* and the *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Study Completion* and related *Comment Form*.

This information has been sent directly to you via email, for your consideration, as part of the requirements of the *Schedule B Municipal Class Environmental Assessment* for the project. A copy of this submission will also be provided to you in hardcopy format, by mail.

A copy of the *Project File Report* for the *Schedule B Municipal Class Environmental Assessment* of the *Reconstruction of Ferguson Lake Road Project (Phase I)* will be available for public review later today on the Township's website at:

- <https://www.greatermadawaska.com/>

This submission is intended to fulfill the requirements of Point of Contact #3 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, you were provided with Point of Contact #1 and #2, the *Notice of Study Commencement* (in June 2020) and the *Notice of Public Information Centre* (in May 2021).

We look forward to any comments you may have by the August 21, 2021 submission date.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:55 AM
To: EmilyW@curvelake.ca; GeneralManager@curvelake.ca
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Orpana, Jon (MECP) <jon.orpana@ontario.ca>
Subject: Notice of Public Information Centre - Curve Lake First Nation - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Good morning, Curve Lake First Nation:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, your office was provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, July 22, 2021 1:49 PM
To: 'chiefcarr@hiawathafn.ca'; 'info@hiawathafn.ca'
Cc: Solutions - Greenview; Orpana, Jon (MECP)
Subject: Notice of Study Completion - Hiawatha First Nation - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Study Completion - FINAL - Jul22-21.pdf; 102.21.025 - FLR - Notice of Study Completion - Comment Form - FINAL - Jul22-21.pdf

Good afternoon, Hiawatha First Nation:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project (Phase I)* and the *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Study Completion* and related *Comment Form*.

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- <https://www.greatermadawaska.com/>

This submission is intended to fulfill the requirements of Point of Contact #3 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, you were provided with Point of Contact #1 and #2, the *Notice of Study Commencement* (in June 2020) and the *Notice of Public Information Centre* (in May 2021).

We look forward to any comments you may have by the August 21, 2021 submission date.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:57 AM
To: chiefcarr@hiawathafn.ca; info@hiawathafn.ca
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Orpana, Jon (MECP) <jon.orpana@ontario.ca>
Subject: Notice of Public Information Centre - Hiawatha First Nation - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Good morning, Hiawatha First Nation:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, July 22, 2021 1:50 PM
To: 'mno@metisnation.org'
Cc: Solutions - Greenview; Orpana, Jon (MECP)
Subject: Notice of Study Completion - Metis Nation of Ontario - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Study Completion - FINAL - Jul22-21.pdf; 102.21.025 - FLR - Notice of Study Completion - Comment Form - FINAL - Jul22-21.pdf

Good afternoon, Metis Nation of Ontario:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project (Phase I)* and the *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Study Completion* and related *Comment Form*.

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We look forward to any comments you may have by the August 21, 2021 submission date.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:58 AM
To: 'mno@metisnation.org' <mno@metisnation.org>
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Orpana, Jon (MECP) <jon.orpana@ontario.ca>
Subject: Notice of Public Information Centre - Metis Nation of Ontario - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Good morning, Metis Nation of Ontario:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, July 22, 2021 1:50 PM
To: info@scugogfirstnation.com; msanford@scugogfirstnation.com
Cc: Solutions - Greenview; Orpana, Jon (MECP)
Subject: Notice of Study Completion - Mississaugas of Scugog Island First Nation - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Study Completion - FINAL - Jul22-21.pdf; 102.21.025 - FLR - Notice of Study Completion - Comment Form - FINAL - Jul22-21.pdf

Good afternoon, Mississaugas of Scugog Island First Nation:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project (Phase I)* and the *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Study Completion* and related *Comment Form*.

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We look forward to any comments you may have by the August 21, 2021 submission date.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 11:00 AM
To: info@scugogfirstnation.com
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Orpana, Jon (MECP) <jon.orpana@ontario.ca>
Subject: Notice of Public Information Centre - Mississaugas of Scugog Island First Nation - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Good morning, Mississaugas of Scugog Island First Nation:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, July 22, 2021 1:50 PM
To: 'k.a.sandy-mckenzie@rogers.com'
Cc: Solutions - Greenview; Orpana, Jon (MECP)
Subject: Notice of Study Completion - Williams Treaties First Nation - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Study Completion - FINAL - Jul22-21.pdf; 102.21.025 - FLR - Notice of Study Completion - Comment Form - FINAL - Jul22-21.pdf

Good afternoon, Williams Treaties First Nation:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project (Phase I)* and the *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Study Completion* and related *Comment Form*.

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- <https://www.greatermadawaska.com/>

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We look forward to any comments you may have by the August 21, 2021 submission date.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 11:02 AM
To: k.a.sandy-mckenzie@rogers.com
Cc: Solutions - Greenview <solutions@greenview-environmental.ca>; Orpana, Jon (MECP) <jon.orpana@ontario.ca>
Subject: Notice of Public Information Centre - Williams Treaties First Nation - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Good morning, Williams Treaties First Nation:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

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This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, your office was provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



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Dan Hagan (Greenview)

From: Dan Hagan (Greenview)
Sent: Thursday, July 22, 2021 2:01 PM
To: Solutions - Greenview
Cc: Allison Holtzhauer (TGM)
Subject: Notice of Study Completion - Adjacent Property Owners & Interested Parties - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)
Attachments: 102.21.025 - FLR - Notice of Study Completion - FINAL - Jul22-21.pdf; 102.21.025 - FLR - Notice of Study Completion - Comment Form - FINAL - Jul22-21.pdf

Good afternoon, Adjacent Property Owners and Interested Parties:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project (Phase I)* and the *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Study Completion* and related *Comment Form*.

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A copy of the *Project File Report* for the *Schedule B Municipal Class Environmental Assessment* of the *Reconstruction of Ferguson Lake Road Project (Phase I)* will be available for public review later today on the Township's website at:

- <https://www.greatermadawaska.com/>

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We look forward to any comments you may have by the August 21, 2021 submission date.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

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From: Dan Hagan (Greenview)
Sent: Friday, May 28, 2021 10:47 AM
To: Solutions - Greenview <solutions@greenview-environmental.ca>
Subject: Notice of Public Information Centre - Adjacent Property Owners & Interested Parties - Reconstruction of Ferguson Lake Road Project - Township of Greater Madawaska (102.21.025)

Good morning, Adjacent Property Owners and Interested Parties:

On behalf of the Township of Greater Madawaska (Township), and with respect to the *Reconstruction of Ferguson Lake Road Project* and the on-going *Schedule B Municipal Class Environmental Assessment*, Greenview Environmental Management Limited (Greenview) is pleased to provide you with the attached *Notice of Public Information Centre* and related *Comment Form*.

This information has been sent directly to you via email, as you had previously provided Greenview and the Township with your email address as part of the *Notice of Study Commencement* in June 2020. A copy of this submission will also be provided to you in hardcopy format, by mail.

This submission is intended to fulfill the requirements of Point of Contact #2 for the *Schedule B Municipal Class Environmental Assessment* for the project. Previously, you were provided with Point of Contact #1, the *Notice of Study Commencement*, in June 2020.

We look forward to the possibility of you joining us and the Township for the *Public Information Centre* on June 15, 2021.

Thank you in advance for your time -

Sincerely,

Dan Hagan, P.Geo.

Senior Project Manager / Geologist



613.332.0057 x 105

www.greenview-environmental.ca

This e-mail message (including attachments, if any) is confidential and may be privileged. Any unauthorized distribution or disclosure is prohibited. Disclosure to anyone other than the intended recipient does not constitute waiver of privilege. If you have received this e-mail in error, please notify us and delete it and any attachments from your computer system and records.

Appendix G



Statement of Service Conditions & Limitations

The following conditions and limitations shall form an integral part of any agreement between Greenview and the Client. In the event of duplication or conflict, the most stringent shall supercede the other.

Provision of Services and Payment

Upon documented acceptance of Greenview's proposed services and conditions in written form by the Client, Greenview may commence work on the proposed services directly.

Greenview's offers for services in the form of proposals, quotations, bids, tenders, or other like an offering to a Client are formulated upon available information at the time of the offer submission. In the event of discovery of unknown conditions, or any other unknown circumstance that may arise following the presentation of Greenview's offer to the Client, Greenview reserves the right to negotiate terms with the Client with respect to changes in scope, fees, disbursements, or the like as may be fair and reasonable considering the discovery.

Upon retention of Greenview's services related to any commission, the Client agrees to remit payment for the services rendered for the specified period within (30) days of the invoice date as invoiced by Greenview on a typical monthly basis, unless otherwise arranged between the Client and Greenview. In the event of non-payment by the Client, Greenview reserves the right, without external influence or expense, to discontinue services and retain any documentation, data, reports, or other project information until such time as payment is received by Greenview. Interest on any overdue accounts may be applied accordingly.

Warranty, Limitations, and Reliance

Greenview relies on background and historical information from the Client to determine the appropriate scope of services to meet the Client's objectives, in accordance with applicable legislation, guidelines, industry practices, and accepted methodologies.

Greenview provides its services under the specific terms and conditions of a specific proposal (and where necessary formal contract), in accordance with the above requirements and the *Limitations Act 2002*, as amended, only.

The hypotheses, results, conclusions, and recommendations presented in documentation authored by Greenview are founded on the information provided by the Client to Greenview in preparation for the work. Facts, conditions, and circumstances discovered by Greenview during the performance of the work requested by the Client are assumed by Greenview to be part of preparatory information provided by the Client as part of the proposal stage of the project. Greenview assumes that, until notified or discovered otherwise, that the information provided by, or obtained by Greenview from, the Client is factual, accurate, and represents a true depiction of the circumstances that exist related to the time of the work.

Greenview relies on its Clients to inform Greenview if there are changes to any related information to the work. Greenview does not review, analyze, or attempt to verify the accuracy or completeness of the information or materials provided, or circumstances encountered, other than in accordance with applicable accepted industry practice. Greenview will not be responsible for matters arising from incomplete, incorrect, or misleading information or from facts or circumstances that are not fully disclosed to, or that are concealed from Greenview during the period that proposals, services, work, or documentation preparation was performed by Greenview.

Facts, conditions, information, and circumstances may vary with time and locations and Greenview's services are based on a review of such matters as they existed at the time and location indicated in its documentation. No assurance is made by Greenview that the facts, conditions, information, circumstances or any underlying assumptions made by Greenview in connection with the work performed will not change after the work is completed and documentation is submitted. If any such changes occur or additional information is obtained, Greenview should be advised and

requested to consider if the changes or additional information affect its findings or results.

When preparing documentation, Greenview considers applicable legislation, regulations, governmental guidelines, and policies to the extent they are within its knowledge, but Greenview is not qualified to advise with respect to legal matters. The presentation of information regarding applicable legislation, regulations, not intended to and should not be interpreted as constituting a legal opinion concerning the work completed or conditions outlined in a report. All legal matters should be reviewed and considered by an appropriately qualified legal practitioner.

Greenview's services, work and reports are provided solely for the exclusive use of the Client which has retained the services of Greenview and to which its reports are addressed. Greenview is not responsible for the use of its services, work or reports by any other party, or for the reliance on, or for any decision which is made by any party using the services or work performed by or a report prepared by Greenview without Greenview's express written consent. Any party that uses, relies on, or makes a decision based on services or work performed by Greenview or a report prepared by Greenview without Greenview's express written consent, does so at its own risk. Except as set out herein, Greenview specifically disclaims any liability or responsibility to any third party for any loss, damage, expense, fine, penalty or other such thing which may arise or result from the use of, reliance on or decision based on any information, recommendation or other matter arising from the services, work or reports provided by Greenview.

Site Reviews and Assessments

A site assessment is created using data and information collected during the investigation of a site and based on conditions encountered at the time and particular locations at which fieldwork is conducted. The information, sample results and data collected represent the conditions only at the specific times at which and at those specific locations from which the information, samples and data were obtained and the information, sample results and data may vary at other locations and times. To the extent that Greenview's work or report considers any locations or times other than those from which information, sample results and data were specifically received, the work or report is based on a reasonable extrapolation from such information, sample results and data but the actual conditions encountered may vary from those based on extrapolations.

Only conditions, and substances, at the site and locations chosen for study by the Client are evaluated; no adjacent or other properties are evaluated unless specifically requested by the Client. Any physical or other aspects of the site that were not chosen for study by the Client, or any other matter not specifically addressed in a report prepared by Greenview, are beyond the scope of the work performed by Greenview and such matters have not been investigated or addressed.

Confidentiality

Greenview provides its proposals, reports, assessments, designs, and any other work for the sole party identified as the Client or potential Client in the case of proposals.

For proposals specifically, the information contained therein is strictly confidential, proprietary information, and shall not be reproduced or disclosed to any other party than to that of the addressee of the original proposal submission, without prior written permission of Greenview. Any such unauthorised reproduction, in whole or in part, is considered a breach of trust or contract, as applicable by law.