

## **Committee of Adjustment Application to Planning Department**

### **Complete Application**

A complete development application consists of the following:

1. A properly completed and signed application form (signature must be original in planners file);
2. Supporting information adequate to illustrate your proposal as indicated in **Section H** of this application form (plans are required in paper copy and digital PDF format);
3. Written authorization from all registered owners of the subject lands where the applicant is not the owner as per Section N; and,
4. Cash, debit or cheque payable to Norfolk County in the amount set out in the user fees By-Law.

The above information is required to ensure that your application is given full consideration. An incomplete or improperly prepared application will not be accepted and may result in delays during the processing of the application. This application must be typed or printed in ink and completed in full.

### **Before an Application is Submitted**

A pre-consultation meeting is not required for Committee of Adjustment applications; however, discussion with Planning Department staff prior to the submission of an application is strongly encouraged. The purpose of corresponding with a planner in advance is to provide the applicant with an opportunity to present the proposed application, to discuss potential issues and to determine the required information and materials to be submitted with the application in order for it to be considered complete by staff. It may be appropriate to seek the assistance of independent professional help (for example a planning consultant or engineer) for complex applications.

### **Processing the Development Application**

For an application to be deemed complete all of the components noted above are required. Incomplete applications will be identified and returned to the applicant. Staff have 30 days to review and deem an application complete.

Once an application has been deemed complete by a planner, it will be circulated to public agencies and County departments for review and comments. Notice of the application is also provided to adjacent land owners. The comments received assist the planner with the review and recommendation/approval of your application. Committee of Adjustment applications have a typical processing time of 2- 3 months.

An additional fee will be required if a review by the Long Point Region Conservation Authority or by the Grand River Conservation Authority is deemed necessary by planning staff and/or by the Authority. A separate cheque payable to the Long Point Region Conservation Authority or the Grand River Conservation Authority is required in accordance with their fee schedule at the same time your application is submitted.

Additional studies required as part of the complete application shall be at the sole expense of the applicant. It should also be noted that in some instances peer reviews may be necessary to review particular studies and that the cost shall be at the expense of the applicant. The company to complete the peer review shall be selected by the County.

If the application is withdrawn prior to the circulation to commenting agencies, the entire original fee will be refunded. If withdrawn after the circulation to agencies, half the original fee will be refunded. No refund is available after the public meeting and/or approval of application.

### **Notification Sign Requirements**

Planning Department staff will post a notification sign on your property in advance of the public meeting. Please keep this sign posted until you have received a notice in the mail indicating that no appeals were received by the Clerk's Office. Applicants are responsible for removal of the sign following the appeal period. The signs are recyclable and can be placed in your blue box.

### **Contact Us**

For additional information or assistance in completing this application, please contact a planner at 519-426-5870 ext. 1842 or [Committee.of.Adjustment@NorfolkCounty.ca](mailto:Committee.of.Adjustment@NorfolkCounty.ca)

Please submit the completed application and fees to:

185 Robinson Street, Suite 200, Simcoe, ON N3Y 5L6

## LOT B

### For Office Use Only:

File Number	<u>BNPL2022330</u>	Application Fee	<u>\$2886 + 1599</u>
Related File Number	<u>ANPL2022331</u>	Conservation Authority Fee	<u>N/A</u>
Pre-consultation Meeting	<u>-</u>	Well & Septic Info Provided	<u>Hydrogeo submitted - new system proposed</u>
Application Submitted	<u>Oct 27, 2022</u>	Planner	<u>Hanne Yager</u>
Complete Application	<u>Nov 10, 2022</u>	Public Notice Sign	<u></u>

### Check the type of planning application(s) you are submitting.

- ☒ Consent/Severance/Boundary Adjustment
- ☐ Surplus Farm Dwelling Severance and Zoning By-law Amendment
- ☒ Minor Variance
- ☐ Easement/Right-of-Way

**Property Assessment Roll Number:** 33 10 541 020 48800 0000

### A. Applicant Information

**Name of Owner** Harvey Gedye and Lisa Gedye

It is the responsibility of the owner or applicant to notify the planner of any changes in ownership within 30 days of such a change.

**Address** 1 St. Ladislaus St

**Town and Postal Code** Courtland, N0J1E0

**Phone Number** 519-535-7413

**Cell Number** 519-535-7413

**Email** polaris800xcsp@hotmail.com

**Name of Applicant** Harv Gedye

**Address** 1 St Ladislaus St

**Town and Postal Code** Courtland, N0J1E0

**Phone Number**

**Cell Number** 519-535-7413

**Email** polaris800xcsp@hotmail.com

**Name of Agent** Mary Elder, Elder Plans Inc.  
**Address** 32 Miller Cres  
**Town and Postal Code** Simcoe, ON N3Y 4R1  
**Phone Number** \_\_\_\_\_  
**Cell Number** 519-429-4933  
**Email** Elderplans2018@gmail.com

Please specify to whom all communications should be sent. Unless otherwise directed, all correspondence and notices in respect of this application will be forwarded to the agent noted above.

☒ Owner ☒ Agent ☐ Applicant

Names and addresses of any holder of any mortgagees, charges or other encumbrances on the subject lands:

\_\_\_\_\_  
\_\_\_\_\_

## **B. Location, Legal Description and Property Information**

1. Legal Description (include Geographic Township, Concession Number, Lot Number, Block Number and Urban Area or Hamlet):

MID PLAN 607 LOT 1

NORFOLK COUNTY

Municipal Civic Address: 1 St Ladislaus St

Present Official Plan Designation(s): Urban Residential

Present Zoning: Hamlet Residential (RH)

2. Is there a special provision or site specific zone on the subject lands?

☐ Yes ☒ No If yes, please specify:

\_\_\_\_\_

3. Present use of the subject lands:

Open land (grassed backyard)

\_\_\_\_\_

4. Please describe **all existing** buildings or structures on the subject lands and whether they are to be retained, demolished or removed. If retaining the buildings or structures, please describe the type of buildings or structures, and illustrate the setback, in metric units, from front, rear and side lot lines, ground floor area, gross floor area, lot coverage, number of storeys, width, length, and height on your attached sketch which must be included with your application:

A single detached dwelling exists on the east side of the existing lot and will be retained. Attached is a survey sketch showing the set backs and proposal.

5. If an addition to an existing building is being proposed, please explain what it will be used for (for example a bedroom, kitchen, or bathroom). If new fixtures are proposed, please describe.

N/A

6. Please describe **all proposed** buildings or structures/additions on the subject lands. Describe the type of buildings or structures/additions, and illustrate the setback, in metric units, from front, rear and side lot lines, ground floor area, gross floor area, lot coverage, number of storeys, width, length, and height on your attached sketch which must be included with your application:

Should the application to sever the lot be successful, a new single detached dwelling will be built on the lot. No details of the building are available but it is reasonable to expect all zoning setbacks can be achieved.

7. Are any existing buildings on the subject lands designated under the *Ontario Heritage Act* as being architecturally and/or historically significant? Yes ☐ No ☒

If yes, identify and provide details of the building:

8. If known, the length of time the existing uses have continued on the subject lands:

The dwelling was built in April 1998.

9. Existing use of abutting properties:

Residential, institutional (cemetery and church)

10. Are there any easements or restrictive covenants affecting the subject lands?

☐ Yes ☒ No If yes, describe the easement or restrictive covenant and its effect:

## C. Purpose of Development Application

Note: Please complete all that apply.

### 1. Site Information

	Existing	Permitted	Provision	Proposed	Deficiency
<b>Lot frontage</b>	54.27m	30 m	<b>Lot B+ home lot</b>	70.85m	<b>LOT B</b>
<b>Lot depth</b>	118.41m			30.0m	
<b>Lot width</b>	Varies, 30.01 min			70.85m	
<b>Lot area</b>	4013.2 sq m	0.4 ha		2006.6 sq m	1993.4 sq m
<b>Lot coverage</b>					
<b>Front yard</b>	13.5m	6m		6m min	
<b>Rear yard</b>	More than 147 m	9m		9m min	
<b>Height</b>	5.33m	11m		Less than 11m	
<b>Left Interior side yard</b>	11.45m	1.2m		1.2m min	
<b>Right Interior side yard</b>	none			1.2m min	
<b>Exterior side yard (corner lot)</b>	13.33m	6m			
<b>Parking Spaces (number)</b>	2	2		2	
<b>Aisle width</b>					
<b>Stall size</b>					
<b>Loading Spaces</b>					
<b>Other</b>					

2. Please explain why it is not possible to comply with the provision(s) of the Zoning By-law:

Based on the hydrogeological study tertiary septic system will appropriately address the matter of sanitary servicing on the new lot.

3. Description of land intended to be severed in metric units:

Frontage: 70.85 m

Depth: 30.01 m

Width: 57.65 m at rear

Lot Area: 2006.6 sq m

Present Use: vacant grassed lawn

Proposed Use: residential use in the form of a single detached dwelling

Proposed final lot size (if boundary adjustment): \_\_\_\_\_

If a boundary adjustment, identify the assessment roll number and property owner of the lands to which the parcel will be added: \_\_\_\_\_

\_\_\_\_\_

Description of land intended to be retained in metric units:

Frontage: 54.27m

Depth: 46.63m

Width: varies

Lot Area: 2006.6 sq m

Present Use: residential

Proposed Use: residential

Buildings on retained land: one single detached dwelling

4. Description of proposed right-of-way/easement in metric units:

Frontage: \_\_\_\_\_

Depth: \_\_\_\_\_

Width: \_\_\_\_\_  
Area: \_\_\_\_\_  
Proposed Use: \_\_\_\_\_

5. List all properties in Norfolk County, which are owned and farmed by the applicant and involved in the farm operation **(Surplus Farm Dwelling Severances Only)**:

Owners Name: \_\_\_\_\_  
Roll Number: \_\_\_\_\_  
Total Acreage: \_\_\_\_\_  
Workable Acreage: \_\_\_\_\_  
Existing Farm Type: (for example: corn, orchard, livestock) \_\_\_\_\_  
Dwelling Present?: ☐ Yes ☐ No If yes, year dwelling built \_\_\_\_\_

Owners Name: \_\_\_\_\_  
Roll Number: \_\_\_\_\_  
Total Acreage: \_\_\_\_\_  
Workable Acreage: \_\_\_\_\_  
Existing Farm Type: (for example: corn, orchard, livestock) \_\_\_\_\_  
Dwelling Present?: ☐ Yes ☐ No If yes, year dwelling built \_\_\_\_\_

Owners Name: \_\_\_\_\_  
Roll Number: \_\_\_\_\_  
Total Acreage: \_\_\_\_\_  
Workable Acreage: \_\_\_\_\_  
Existing Farm Type: (for example: corn, orchard, livestock) \_\_\_\_\_  
Dwelling Present?: ☐ Yes ☐ No If yes, year dwelling built \_\_\_\_\_



Owners Name: \_\_\_\_\_  
Roll Number: \_\_\_\_\_  
Total Acreage: \_\_\_\_\_  
Workable Acreage: \_\_\_\_\_  
Existing Farm Type: (for example: corn, orchard, livestock) \_\_\_\_\_  
Dwelling Present?: ☐ Yes ☐ No If yes, year dwelling built \_\_\_\_\_

Owners Name: \_\_\_\_\_  
Roll Number: \_\_\_\_\_  
Total Acreage: \_\_\_\_\_  
Workable Acreage: \_\_\_\_\_  
Existing Farm Type: (for example: corn, orchard, livestock) \_\_\_\_\_  
Dwelling Present?: ☐ Yes ☐ No If yes, year dwelling built \_\_\_\_\_

**Note: If additional space is needed please attach a separate sheet.**

#### **D. Previous Use of the Property**

1. Has there been an industrial or commercial use on the subject lands or adjacent lands? ☐ Yes ☒ No ☐ Unknown

If yes, specify the uses (for example: gas station, or petroleum storage):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

2. Is there reason to believe the subject lands may have been contaminated by former uses on the site or adjacent sites? ☐ Yes ☒ No ☐ Unknown

3. Provide the information you used to determine the answers to the above questions:  
Open land before home built as per Neighbours in surrounding areas and back filled by contractors. Drainage department Norfolk County confirmed open land before home built.

4. If you answered yes to any of the above questions in Section D, a previous use inventory showing all known former uses of the subject lands, or if appropriate, the adjacent lands, is needed. Is the previous use inventory attached? ☐ Yes ☐ No

### **E. Provincial Policy**

1. Is the requested amendment consistent with the provincial policy statements issued under subsection 3(1) of the *Planning Act, R.S.O. 1990, c. P. 13*? ☒ Yes ☐ No

If no, please explain:

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2. It is owner's responsibility to be aware of and comply with all relevant federal or provincial legislation, municipal by-laws or other agency approvals, including the Endangered Species Act, 2007. Have the subject lands been screened to ensure that development or site alteration will not have any impact on the habitat for endangered or threatened species further to the provincial policy statement subsection 2.1.7? ☒ Yes ☐ No

If no, please explain:

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3. Have the subject lands been screened to ensure that development or site alteration will not have any impact on source water protection? ☒ Yes ☐ No

If no, please explain:

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Note: If in an area of source water Wellhead Protection Area (WHPA) A, B or C please attach relevant information and approved mitigation measures from the Risk Manager Official.

4. Are any of the following uses or features on the subject lands or within 500 metres of the subject lands, unless otherwise specified? Please check boxes, if applicable.

**Livestock facility or stockyard** (submit MDS Calculation with application)

☐ On the subject lands or ☐ within 500 meters – distance \_\_\_\_\_

**Wooded area**

☐ On the subject lands or ☒ within 500 meters – distance \_\_\_\_\_

**Municipal Landfill**

☐ On the subject lands or ☐ within 500 meters – distance \_\_\_\_\_

**Sewage treatment plant or waste stabilization plant**

☐ On the subject lands or ☐ within 500 meters – distance \_\_\_\_\_

**Provincially significant wetland (class 1, 2 or 3) or other environmental feature**

☐ On the subject lands or ☐ within 500 meters – distance \_\_\_\_\_

**Floodplain**

☐ On the subject lands or ☐ within 500 meters – distance \_\_\_\_\_

**Rehabilitated mine site**

☐ On the subject lands or ☐ within 500 meters – distance \_\_\_\_\_

**Non-operating mine site within one kilometre**

☐ On the subject lands or ☐ within 500 meters – distance \_\_\_\_\_

**Active mine site within one kilometre**

☐ On the subject lands or ☐ within 500 meters – distance \_\_\_\_\_

**Industrial or commercial use (specify the use(s))**

☐ On the subject lands or ☐ within 500 meters – distance \_\_\_\_\_

**Active railway line**

☐ On the subject lands or ☐ within 500 meters – distance \_\_\_\_\_

**Seasonal wetness of lands**

☐ On the subject lands or ☒ within 500 meters – distance \_\_\_\_\_

**Erosion**

☐ On the subject lands or ☐ within 500 meters – distance \_\_\_\_\_

**Abandoned gas wells**

☐ On the subject lands or ☐ within 500 meters – distance \_\_\_\_\_

## F. Servicing and Access

1. Indicate what services are available or proposed:

### Water Supply

- |   |   |
|---|---|
| <input checked="" type="checkbox"/> Municipal piped water | <input type="checkbox"/> Communal wells         |
| <input type="checkbox"/> Individual wells                 | <input type="checkbox"/> Other (describe below) |
- 

### Sewage Treatment

- |  |  |
|--|--|
| <input type="checkbox"/> Municipal sewers  | <input type="checkbox"/> Communal system                   |
| <input checked="" type="checkbox"/> Septic tank and tile bed in good working order | <input checked="" type="checkbox"/> Other (describe below) |

Waterloo Biofilter Shallow Buried Trench – See Hydrogeological Assessment

### Storm Drainage

- |  |                                       |
|--|---------------------------------------|
| <input checked="" type="checkbox"/> Storm sewers | <input type="checkbox"/> Open ditches |
| <input type="checkbox"/> Other (describe below)  |                                       |
- 

2. Existing or proposed access to subject lands:

- |  |   |
|--|---|
| <input checked="" type="checkbox"/> Municipal road | <input type="checkbox"/> Provincial highway     |
| <input type="checkbox"/> Unopened road             | <input type="checkbox"/> Other (describe below) |

Name of road/street: Talbot Street

## G. Other Information

1. Does the application involve a local business? ☐ Yes ☒ No

If yes, how many people are employed on the subject lands?

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2. Is there any other information that you think may be useful in the review of this application? If so, explain below or attach on a separate page.

To support the development proposal, a hydrogeological assessment report has been provided that indicates lots will utilize an individual subsurface sewage disposal system equipped with a tertiary treatment capable of nitrate reduction. This report was forwarded to a septic system company who has completed the site review and prepared a system design.

## **Henderson Excavating and Site Work**

52 Jerseyville Road

Brantford, Ontario N3T 5M1

Phone: [\(519\) 751-6243](tel:5197516243)

Email: [hendersonexcavation@gmail.com](mailto:hendersonexcavation@gmail.com)

The existing septic system will need to be removed and a new system installed to accommodate requirements between property lines. This is highlighted on the attached survey sketch completed by Kim Husted Surveying LTD.

## **H. Supporting Material to be submitted by Applicant**

In order for your application to be considered complete, folded hard copies (number of paper copies as directed by the planner) and an **electronic version (PDF) of the site plan drawings, additional plans, studies and reports** will be required, including but not limited to the following details:

1. Concept/Layout Plan
2. All measurements in metric
3. Existing and proposed easements and right of ways
4. Parking space totals – required and proposed
5. All dimensions of the subject lands
6. Dimensions and setbacks of all buildings and structures
7. Location and setbacks of septic system and well from all existing and proposed lot lines, and all existing and proposed structures
8. Names of adjacent streets
9. Natural features, watercourses and trees

In addition, the following additional plans, studies and reports, including but not limited to, **may** also be required as part of the complete application submission:

- ☐ Zoning Deficiency Form
- ☐ On-Site Sewage Disposal System Evaluation Form (to verify location and condition)
- ☐ Environmental Impact Study
- ☐ Geotechnical Study / Hydrogeological Review
- ☐ Minimum Distance Separation Schedule
- ☐ Record of Site Condition

Your development approval might also be dependent on Ministry of Environment Conservation and Parks, Ministry of Transportation or other relevant federal or provincial legislation, municipal by-laws or other agency approvals.

**All final plans must include the owner's signature as well as the engineer's signature and seal.**

## I. Transfers, Easements and Postponement of Interest

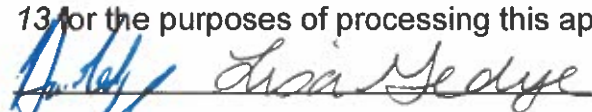
The owner acknowledges and agrees that if required it is their solicitor's responsibility on behalf of the owner for the registration of all transfer(s) of land to the County, and/or transfer(s) of easement in favour of the County and/or utilities. Also, the owner further acknowledges and agrees that it is their solicitor's responsibility on behalf of the owner for the registration of postponements of any charges in favour of the County.

### Permission to Enter Subject Lands

Permission is hereby granted to Norfolk County officers, employees or agents, to enter the premises subject to this application for the purposes of making inspections associated with this application, during normal and reasonable working hours.

### Freedom of Information

For the purposes of the *Municipal Freedom of Information and Protection of Privacy Act*, I authorize and consent to the use by or the disclosure to any person or public body any information that is collected under the authority of the *Planning Act*, R.S.O. 1990, c. P. 13 for the purposes of processing this application.

  
Owner/Applicant/Agent Signature

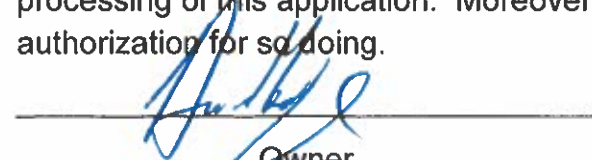

Oct 26, 2022  
Date

## J. Owner's Authorization

If the applicant/agent is not the registered owner of the lands that is the subject of this application, the owner must complete the authorization set out below.

I/We HARVEY GEOME & LISA GEOME am/are the registered owner(s) of the lands that is the subject of this application.

I/We authorize Mary Elder of Elder Plans Inc. to make this application on my/our behalf and to provide any of my/our personal information necessary for the processing of this application. Moreover, this shall be your good and sufficient authorization for so doing.

  
Owner  
  
Owner

Oct 26, 2022  
Date  
Oct 26, 2022  
Date

\*Note: If property is owned by an Ontario Ltd. Corporation, Articles of Incorporation are required to be attached to the application.

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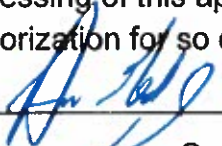
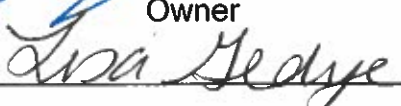
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 OCT 26, 2022  
Owner Date  
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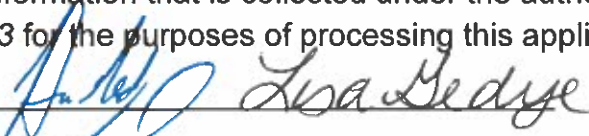
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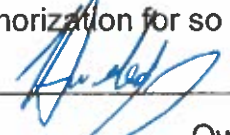

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Owner  
  
Owner

OCT 26, 2022  
Date  
OCT 26, 2022  
Date

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## CURRENT SEPTIC



**KIM HUSTED SURVEYING LTD.**  
ONTARIO LAND SURVEYOR

ONTARIO LAND SURVEYOR

30 HARVEY STREET, TILSONBURG ONTARIO, N4G 3J8  
PHONE: 519-842-3638 FAX: 519-842-3639

PHONE:519-842-3638

**FAX: 519-842-3639**

PROJECT: 21-17626SKETCH-1

HARV GEDYE  
1st LADSLAS STREET, COURTLAND

REF:	DWG.	GES
FILE	CKD.	JGD

December 2, 2021

Mr. Harvey Gedye  
1 St. Ladislaus Street  
Courtland, ON  
N0J 1E0

**Wilson  
Associates**  
Consulting Hydrogeologists

Dear Mr. Gedye

Re: Hydrogeological Assessment  
Proposed Residential Severance  
1 St. Ladislaus Street, Community of Courtland, Norfolk County

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It is proposed to sever two residential lots from the western portion of the existing  $\pm 0.67$  ha (1.66 acre) property at 1 St. Ladislaus Street in the Community of Courtland. The proposed two new lots will front on Talbot Street. The attached plan shows the layout of the site.

It is proposed to service the lots with water from the Courtland municipal water supply and an individual subsurface sewage disposal system.

To support the development proposal, a hydrogeological study was conducted involving the following:

- Exploratory test pits were completed within the proposed lots to collect representative soil samples for percolation rate analyses and to identify shallow groundwater conditions.
- Sewage system development density assessment under current Ministry of the Environment, Conservation and Parks (MECP) Procedure D-5-4 "Technical Guideline For Individual On-Site Sewage Systems : Water Quality Impact Risk Assessment", commonly known as the "nitrate guideline".

The above hydrogeologic investigative requirements were addressed through a test pit and groundwater sampling program conducted November 4, 2021 and a subsequent background hydrogeologic analysis. This report provides a summary of background hydrogeologic information, the results of the soils suitability study and comment regarding sewage impact potential.

#### **SITE SETTING, GEOLOGY AND HYDROGEOLOGY**

The proposed lots are located within the southern portion of the Community of Courtland, at the southwest corner of the intersection of St. Ladislaus Street and Talbot Street. Frontage of the existing lot on St. Ladislaus Street is about 51m and frontage along Talbot Street is about 176m. The subject lands are cleared and grassed, with one single family residence at the northeast end of the property. The site exhibits a rolling overall relief, with a slope of about 4m towards a swale along the southeast side of the site. Lands surrounding the site are mostly

developed as residential or vacant lots, with a cemetery to the north.

No surface water bodies are located on or in the close vicinity of the site, the closest being Little Otter Creek about 175m to the south of the site.

The site is located within the Norfolk Sand Plain physiographic region of southern Ontario. According to the Ontario Geological Survey Map 2473 "Quaternary Geology of the Tillsonburg Area", the upper overburden in the vicinity of the site consists of glaciolacustrine shallow water deposits of sand. Historical local well records indicate that the upper sands are in the range of 1.5m to 2.1m deep. The overburden is regionally indicated to be approximately 50m deep, with the remainder of the overburden typically consisting of fine-grained deposits.

The bedrock beneath the site consists of limestone and dolostone of the Dundee Formation and the Detroit River Group.

Regionally the majority of local groundwater supplies are obtained from the upper granular deposits, where sufficiently deep. However, historical local wells have been completed in the bedrock aquifer due to the locally thin character of the upper granular deposits. The lower overburden typically provides little to no potential for groundwater supply due to its fine-grained character, and the bedrock is usually less often utilized due to the expense of deep drilling and the potential of obtaining aesthetically poor-quality water.

Shallow groundwater on the site will follow local drainage patterns, with a probable gradient to the south, towards Little Otter Creek.

## **SOILS INVESTIGATION**

### **Test Pits:**

Three exploratory test pits were excavated within the subject site on November 4, 2021. The test pits were each completed to a depth of 1.5 to 1.7m, the soil profile was logged in each pit and representative soil samples were collected from each identified soil horizon for subsequent classification, analysis and storage. The attached diagram shows the approximate test pit locations. The following table provides a summary of the analytical results for representative soil samples.

**Table 1 : Summary of Soil Analytical Data**

Test Pit/ Sample	Depth (m)	Grain-Size Distribution				"k" (cm/sec)	T-Time (min/cm)
		Clay %	Silt %	Sand %	Gravel %		
TP1 S1	0.9	2	7	91	0	$5 \times 10^{-3}$	8
TP3 S2	0.5	9	29	62	0	$6 \times 10^{-5}$	25
TP3 S3	1.2	6	88	6	0	$4 \times 10^{-5}$	30

Note: The above coefficients of permeability ("k" values) and T-times (percolation rates) are estimates based on field observation, laboratory grain-size analysis, experience with similar soils and guidelines of the Ontario Building Code.

In summary, the soil profile at the test pits consisted of a fine sand (Unified Soil Classification Type "SP"), which is interpreted to exhibit a percolation rate in the range of 8 minutes/cm, overlying a silty sand to silt (Unified Soil Classification Type "SC" to "ML"), which is interpreted to exhibit a percolation rate in the range of 25 to 30min/cm.

The grain-size analysis curves are attached. The following provides a summary of the test pit logs:

**TEST PIT 1**

<u>Depth (m)</u>	<u>Material</u>
0 - 0.20	dark brown TOPSOIL
0.20 - 0.58	red-brown, loose, dry fine SAND with traces of silt and clay
0.58 - 1.52	grey-brown, compact, dry to wet silty SAND with traces of clay

**TEST PIT 2**

<u>Depth (m)</u>	<u>Material</u>
0 - 0.20	dark brown TOPSOIL
0.20 - 0.81	red-brown, loose, dry fine SAND with traces of silt and clay
0.81 - 1.52	grey-brown, compact, dry to wet silty SAND with traces of clay

**TEST PIT 3**

<u>Depth (m)</u>	<u>Material</u>
0 - 0.30	dark brown TOPSOIL
0.30 - 0.81	red-brown, loose, dry silty SAND with traces of clay
0.81 - 1.65	grey-brown, compact, dry to wet SILT with traces of sand and clay

**Shallow Groundwater Conditions:**

Emergent groundwater was observed below 1.1m in Test Pit 1, below 1.2m in Test Pit 2, and below 1.4m in Test Pit 3. Evidence of seasonally elevated groundwater conditions (i.e. soil discolouration and/or mottling) was observed in each soil profile below 0.8m.

**Septic System Design:**

Under the Ontario Building Code, for a Class 4 sewage disposal system to operate effectively, the leaching bed must be located in soil with a percolation rate (T-time) of between 1 and 50 minutes per centimetre and the base of the absorption trenches must be situated at least 0.9m above the high ground water table, bedrock or a soil with a permeability of greater than 50 minutes per centimetre. To achieve a normal, in-ground installation, the high groundwater table, rock or soil with a permeability of greater than 50 min/cm must be situated at least 1.5 to 1.8 metres below grade.

Due to indications of elevated watertable conditions, the bases of tile trenches should be set no lower than 0.1m above current grade. Due to the limited thickness of the upper fine sand, a native soil design percolation rate of 30min/cm is recommended for design purposes.

A standard fill-based sewage disposal system will require a contact area based on a loading rate of 8L/m<sup>2</sup>/day (i.e. 200m<sup>2</sup> for a standard 3-bedroom home with a design sewage flow of 1,600L/day, or 250m<sup>2</sup> for a standard 4-bedroom home with a design sewage flow of 2,000L/day).

It is understood that the County typically requires that a full sewage system reserve area be utilized in lot design. As the lots will each be in excess of 2,000m<sup>2</sup> in area, sufficient area is available for a 200m<sup>2</sup> or 250m<sup>2</sup> primary sewage disposal area, 200m<sup>2</sup> or 250m<sup>2</sup> reserve sewage disposal area. Lot design will need to address setbacks to the house envelope and property lines.

### **SEWAGE SYSTEM IMPACT ASSESSMENT**

Under the current MECP "Technical Guideline For Individual On-Site Sewage Systems : Water Quality Impact Risk Assessment" (Procedure D-5-4, also known as the "nitrate guideline"), each proposed development of five lots or greater utilizing individual on-site sewage systems requires an assessment of groundwater impact potential. The purpose of the assessment is to ensure that the discharge from the individual on-site sewage systems will have a minimal effect on groundwater and the present or potential use of adjacent properties. The assessment involves a three-step process, with the need to advance to the next step dependant on the requirements of the previous step. Where the background nitrate content of shallow groundwater exceeds 10 mg/L, additional development cannot normally be supported.

A background nitrate content of 1mg/L is assumed for this analysis, based on the relatively large local residential lots.

Under Step 1 of the guideline, for developments where the lot size for each private residence within the development is one hectare or larger (with no lots being less than 0.8ha in area), the risk that the limits imposed by the guideline may be exceeded is considered acceptable with no additional hydrogeologic assessment. Step 1 of the guideline is not applicable.

Step 2 of the guideline is applicable where groundwater resources can be confidently demonstrated to be hydraulically isolated from potential sewage pathways. While the upper sands are locally relatively thin, records of shallow wells are indicated in the vicinity of the site, and therefore Step 2 of the guideline does not apply.

Under Step 3 of the guideline, a mass-balance calculation is used to determine the minimum size of the proposed lots. Under the current MECP guideline only infiltrating precipitation and the volume of water contained in the sewage may be considered as dilutants for the nitrate contained in septic effluent. To establish the infiltration rate, the percentage of the local water surplus which may infiltrate is calculated using the Rational Method approach. According to the soil evaluation, the upper soil profile consists of sand (infiltration factor 40%), the overall relief is rolling (infiltration factor 20%) and the cover is cleared (infiltration factor 10%), all resulting



in an infiltration factor of 70%. According to the 2009 Long Point Region, Kettle Creek and Catfish Creek Integrated Water Budget Final Report, the water surplus for the area is in the range of 435mm per year (Little Otter Creek sub-watershed, precipitation 970mm/year, evapotranspiration 535mm/year). As such, the annual infiltration rate will be 305mm (70% of 435mm), representing 31% of average annual precipitation in the sub-watershed.

The following mass-balance formula is used to calculate the maximum density of the proposed development (total area of parcel = 0.67ha) under the MECP guideline:

$$Q_T C_T = Q_S C_S + Q_P C_P$$

Where:

$Q_T$  = Sum of  $Q_S$  and  $Q_P$

$C_T$  = Nitrate concentration (10mg/L, maximum permitted under the guideline)

$Q_S$  = Volume of sewage (1000 L/day/lot, per MECP guideline)

$C_S$  = Nitrate content of sewage (40 mg/L)

$Q_P$  = Infiltration (305mm/year x 0.67ha x 10,000L/mm/ha =  $2.04 \times 10^6$  L/yr)

$C_P$  = Nitrate content of shallow groundwater (1mg/L assumed, see above)

Therefore:

$$(Q_S + 2.04 \times 10^6 \text{ L/yr}) \times 10 \text{ mg/L} = (Q_S \times 40 \text{ mg/L}) + (2.04 \times 10^6 \text{ L/yr} \times 1 \text{ mg/L})$$

$$Q_S = 6.12 \times 10^5 \text{ L/year}$$

$$\text{Number of Lots} = 6.12 \times 10^5 \text{ L/yr} \div 1,000 \text{ L/day/lot} \div 365 \text{ days/yr} = 1.7 \text{ Lots}$$

Based on the MECP-specified daily volume of sewage for the purposes of the Procedure D-5-4 assessment, and an infiltration rate of 305mm/year, the maximum number of lots on the parcel (0.67ha total) under the MECP guideline is 1.7 using conventional sewage disposal systems.

The above assessment approach, conducted in accordance with MECP guidelines, does not consider sewage dilution by groundwater flow-through nor does it consider denitrification processes in the subsurface. As such, the assessment will over-estimate the actual degree of groundwater impact of the proposed lots, this considered a safety factor.

For the three lots (retained lot plus two new lots) to be viable under the guideline, the two new lots will each be required to utilize an individual subsurface sewage disposal system equipped with tertiary treatment capable of nitrate reduction. The use of such systems is not contemplated for this purpose (or any other purpose) in the MECP guidelines due to the age of the guidelines (ca. 1996), however nitrate reducing treatment systems are now commonly used in the Province under CAN/BNQ 3680-600 Certified Treatment Technologies for total nitrogen reduction. The systems are commonly capable of a nitrate reduction in the order of 50%, or 20mg/L. The above mass-balance formula is revised to assume the use of nitrate reduction technology on the two new lots.

The retained lot may continue to utilize a conventional sewage disposal system.

$$Q_T C_T = Q_S C_S + Q_P C_P$$

Where:

$Q_T$  = Sum of  $Q_S$  and  $Q_P$

$C_T$  = Maximum nitrate concentration (10mg/L)

$Q_S$  = Volume of sewage (1,000 L/day/lot)

$C_S$  = Nitrate content of sewage (one lot at 40mg/L, two lots at 20mg/L, 26.7mg/L average)

$Q_P$  = Infiltration ( $2.04 \times 10^6$  L/yr, as above)

$C_P$  = Nitrate content of groundwater (1mg/L)

Therefore:

$$(Q_S + 2.04 \times 10^6 \text{ L/yr}) \times 10 \text{ mg/L} = (Q_S \times 26.7 \text{ mg/L}) + (2.04 \times 10^6 \text{ L/yr} \times 1 \text{ mg/L})$$

$$Q_S = 1.099 \times 10^6 \text{ L/year}$$

$$\text{Number of Lots} = 1.099 \times 10^6 \text{ L/yr} \div 1,000 \text{ L/day/lot} \div 365 \text{ days/yr} = 3.0 \text{ Lots}$$

Based on the above, the sewage systems the two proposed lots will be required to utilize nitrate reduction technology capable of an average nitrate reduction of at least 50% (i.e. 20mg/L nitrate). Commercially-available sewage treatment systems (meeting CAN/BNQ 3680-600 Certified Treatment Technologies for total nitrogen reduction) are typically demonstrated to be capable of a nitrate reduction of 50% (or 20mg/L nitrate), and are capable of higher rates of reduction with additional treatment measures. Municipal support and long-term maintenance agreements for individual sewage treatment units are required.

The retained lot may continue to utilize a conventional sewage disposal system.

## **CONCLUSIONS AND RECOMMENDATIONS**

1. The soil profile at the proposed lots consisted of a fine sand (Unified Soil Classification Type "SP"), which is interpreted to exhibit a percolation rate in the range of 8 minutes/cm, overlying a silty sand to silt (Unified Soil Classification Type "SC" to "ML"), which is interpreted to exhibit a percolation rate in the range of 25 to 30min/cm.
2. Due to indications of elevated watertable conditions, the bases of tile trenches should be set no lower than 0.1m above current grade.
3. Due to the thin depth of the upper fine sand, a native soil design percolation rate of 30min/cm is recommended for design purposes. A standard fill-based sewage disposal system will require a contact area based on a loading rate of 8L/m<sup>2</sup>/day (i.e. 200m<sup>2</sup> for a standard 3-bedroom home with a design sewage flow of 1,600L/day, or 250m<sup>2</sup> for a standard 4-bedroom home with a design sewage flow of 2,000L/day).
4. Under MECP Procedure D-5-4, for the two new lots to be viable, both of the lots will be required to utilize an individual subsurface sewage disposal system equipped with tertiary treatment capable of nitrate reduction. The retained lot may continue to utilize a conventional sewage disposal system.



5. Based on the findings of the preceding analysis, development of the subject lands as three residential lots (one retained and two new lots) serviced by private sewage disposal systems is considered viable, subject to the conclusions, limitations and recommendations outlined in this report.

Should there be any questions regarding the above information and discussion, please do not hesitate to contact this office.

**IAN D. WILSON ASSOCIATES LIMITED**






Geoffrey Rether, B.Sc., P.Geol.



# MAP NORFOLK - Community Web Map

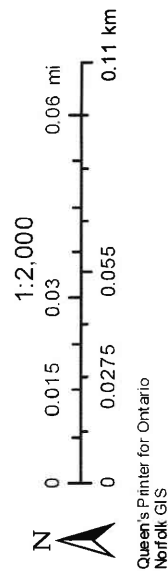


12/2/2021, 10:50:27 AM

-  Land Parcels
-  Plan Lines
-  DraftPlan

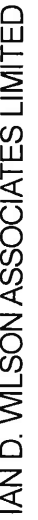
**SITE LAYOUT AND APPROXIMATE TEST PIT LOCATIONS  
1 ST. LADISLAUS STREET, COURTLAND**

**FIGURE 1**



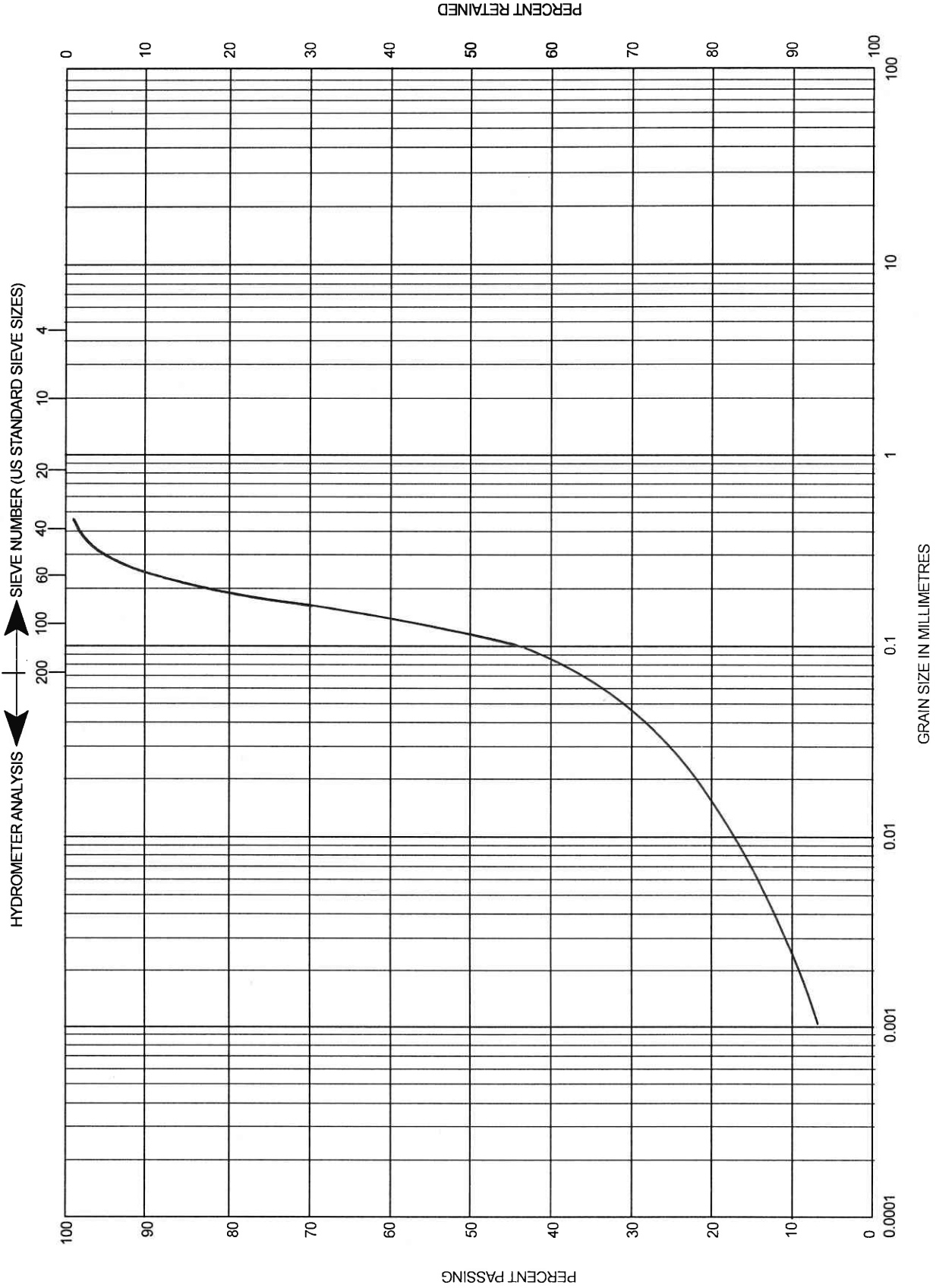


PROJECT / SAMPLE 1 St. Ladislaus Street, Courtland - Test Pit 1, Sample 1



# GRAIN SIZE DISTRIBUTION CHART

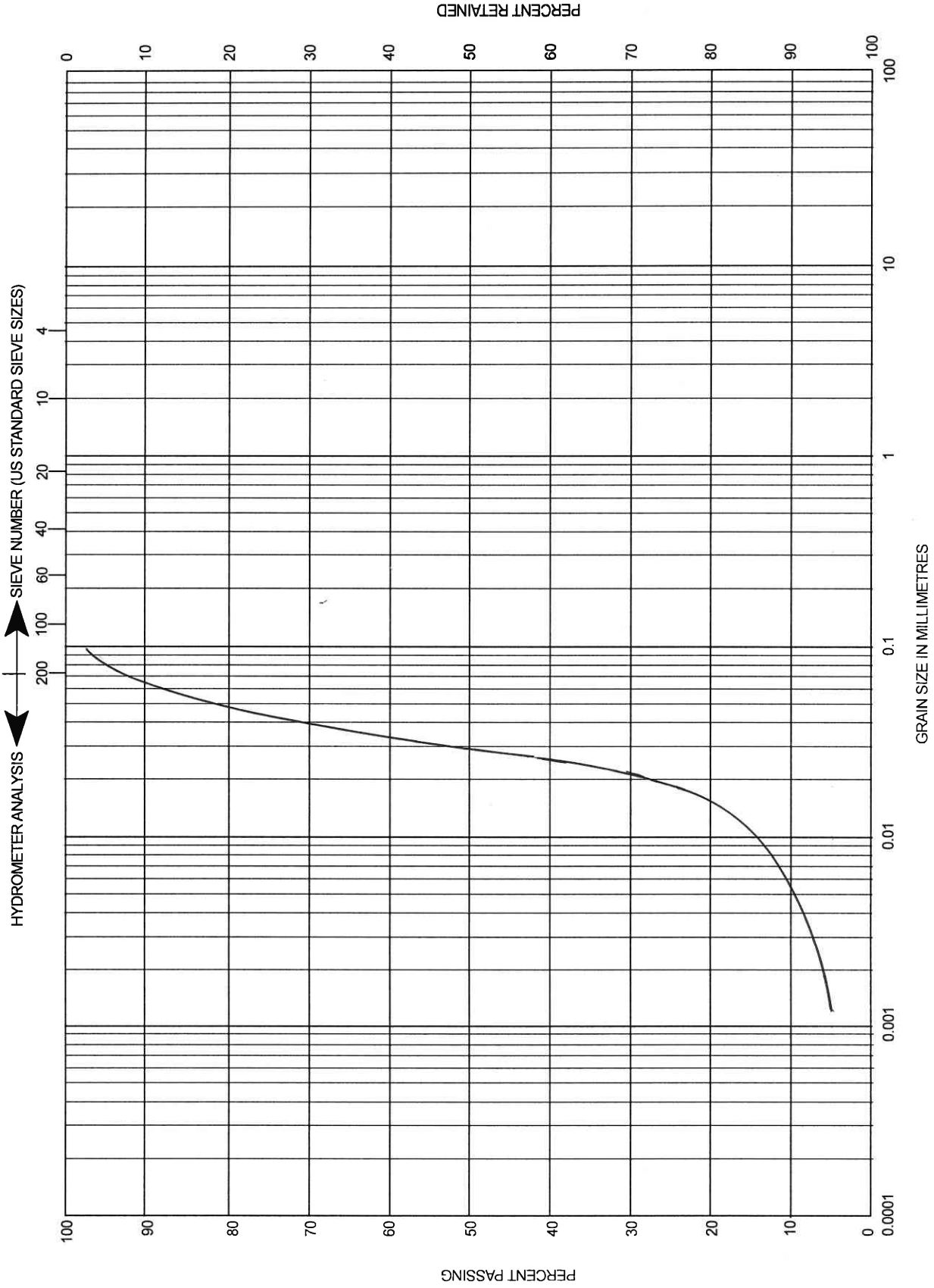
PROJECT / SAMPLE 1 St. Ladislaus Street, Courtland - Test Pit 3, Sample 2



CLAY SIZE	SILT SIZE	SAND SIZE	GRAVEL SIZE	COBBLE SIZE
-----------	-----------	-----------	-------------	-------------

# GRAIN SIZE DISTRIBUTION CHART

PROJECT / SAMPLE 1 St. Ladislaus Street, Courtland - Test Pit 3, Sample 3



CLAY SIZE	SILT SIZE	SAND SIZE	GRAVEL SIZE	COBBLE SIZE

UTM 17Z 529550E

15R 14742 170N

Elev. 5R 0748

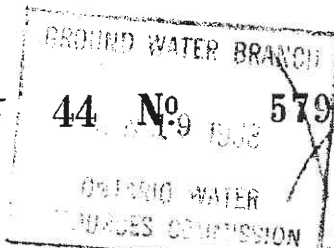
Basin 23  
County or District

Con. 1 T.R.N. Lot 20



The Ontario Water Resources Commission Act

## WATER WELL RECORD

40I/15E  
ENL B

Township, Village, Town or City

Date completed 27 May 1963

Address R.R. #1 Courtland

## Casing and Screen Record

Inside diameter of casing 30"

Total length of casing 30'

Type of screen *Handpump*

Length of screen

Depth to top of screen

Diameter of finished hole 30"

## Pumping Test

Static level 14'

Test-pumping rate 2 G.P.M.

Pumping level 28'

Duration of test pumping 1 hr

Water clear or cloudy at end of test *cloudy*

Recommended pumping rate 3-4 G.P.M.

with pump setting of 28' feet below ground surface

## Well Log

## Water Record

## Overburden and Bedrock Record

From  
ft.To  
ft.Depth(s) at  
which water(s)  
foundKind of water  
(fresh, salty,  
sulphur)

*Top Soil*

*Brown sandy clay*

*Grey clay*

*Grey blue sand*

0 1

1 13

13 15

15 30

15' *fresh*

For what purpose(s) is the water to be used?

*Domestic*Is well on upland, in valley, or on hillside? *Level*

Drilling or Boring Firm

*Hades Well Drilling*Address *Elmira Ont.*

Licence Number

989

Name of Driller or Borer

*R. L. Franklin*

Address

*St. Jacobs Ont.*

Date

*May 22/63*

(Signature of Licensed Drilling or Boring Contractor)

Form 7/5M-60-4138

OWRC COPY

## Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.

*I follow highway #3 thru*

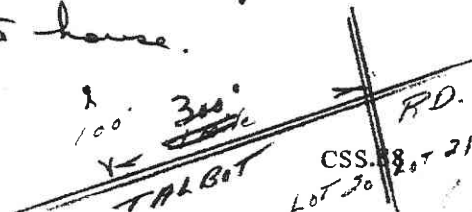
*Lillooet east to highway #59*

*then right to 1st main*

*intersection, then right again*

*2nd house on right, small*

*white house.*

CSS. 887 21  
Lot 20



Basin 21



### The Water-well Drillers Act, 1954

Department of Mines

44 №

584

RECEIVED

DEC 27 1956

GEOLOGICAL BRANCH  
DEPARTMENT of MINES

56-1

# Water-Well Record 40 I / 15' E ENL-B

County or Territorial District Norfolk Township, Village, Town or City Middleton

Village, ~~Town or City~~, Courland

Address ..... Courtland .....

Date completed ..... (day) ..... (month) ..... (year)

### Pipe and Casing Record

### Pumping Test

Casing diameter(s) 7" O.D. Static level 39  
Length(s) 172 ~~Flowing~~ rate 1200 G.P.H.  
Type of screen                      Pumping level 41  
Length of screen                      Duration of test 1 hr.

## Well Log

### Water Record

[illegible]

For what purpose(s) is the water to be used?

Packing House:

Is water clear or cloudy? Cloudy

Is well on upland, in valley, or on hillside?.....

Upland

Drilling firm Gordon Warren

Address ..... 992 Vienna Rd.

Box 393, Tillsonburg,

Name of Driller ..... *Quint* .....

Address ..... *Don* .....

Licence Number.....427.....

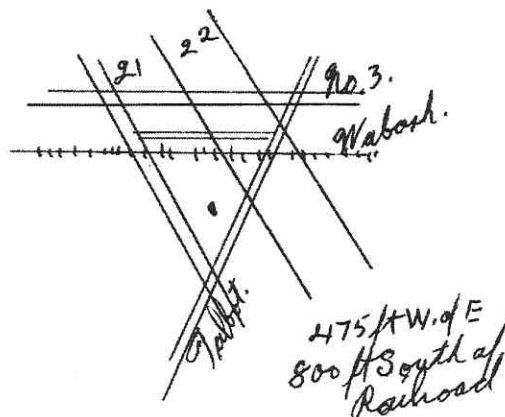
I certify that the foregoing  
statements of fact are true.

4. 1. 2011

Signature of Licensee \_\_\_\_\_

### Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



171 1/17 29 95 30010  
48R 4742480  
ev. 48R 2745  
The Ontario Water Resources Commission Act



401/156  
4402250

DIVISION OF  
WATER RESOURCES  
DEC 16 1968  
ONTARIO WATER  
RESOURCES COMMISSION

# WATER WELL RECORD

County or District LINCOLN Township, Village, Town or City Middleton  
Con. ITRD 5 Lot 21 Date completed 21 Nov 68  
Owner SACRED HEART VILLA Address COURTLAND  
(print in block letters)

## Casing and Screen Record

Inside diameter of casing 6 1/2  
Total length of casing 160  
Type of screen NIL  
Length of screen NIL  
Depth to top of screen NIL  
Diameter of finished hole 6 1/2

## Pumping Test

Static level 20  
Test-pumping rate 25 + 15 G.P.M.  
Pumping level 55  
Duration of test pumping 1 hr  
Water clear or cloudy at end of test Cloudy  
Recommended pumping rate 25 15 G.P.M.  
with pump setting of 2 20 feet below ground surface

## Well Log

### Overburden and Bedrock Record

From  
ft.

To  
ft.

Depth(s) at  
which water(s)  
found

Kind of water  
(fresh, salty,  
sulphur)

SAND & CLAY

0

160

BROWN LIME STONE

160

189

GAS & 165-  
OIL 189

HARD BROWN LIME STONE

189

225-

221 to 225- FRESH

## Water Record

For what purpose(s) is the water to be used? NOT USED  
20 HOME

Is well on upland, in valley, or on hillside? LEVEL

Drilling or Boring Firm ELGIN MITCHELL

Address JARVIS

Licence Number 29 28

Name of Driller or Borer FRED M.

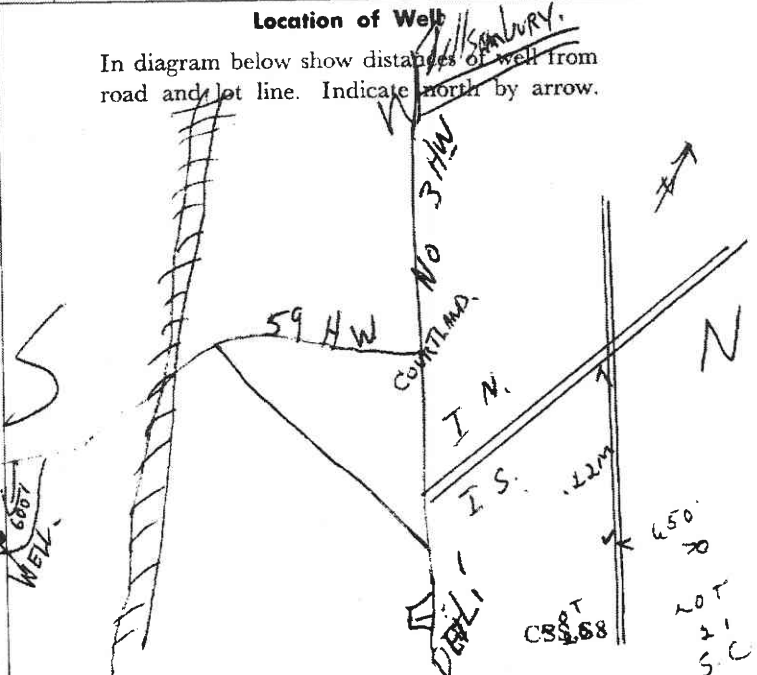
Address FISHERVILLE

Date Nov 21/68

(Signature of Licensed Drilling or Boring Contractor)

## Location of Well

In diagram below show distances of well from road and lot line. Indicate north by arrow.



Form 7 15M-60-4138

OWRC COPY

South on #59 from #3  
old 21/1 Home









Ontario

#97

MINISTRY OF THE ENVIRONMENT  
The Ontario Water Resources Act

## WATER WELL RECORD

401/15B

1. PRINT ONLY IN SPACES PROVIDED  
2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

4403109

MUNICIPALITY

CON.

44003 TRS. 10.1

COUNTY OR DISTRICT

MIDDLETON

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

NORFOLK

CON., BLOCK, TRACT, SURVEY, ETC.

PLAN 607

LOT

25-27

DATE COMPLETED

DAY 5

MO. 07

YR. 73

BOX 166 COURTLAND

42 239

RC

ELEVATION

1926.0

RC

BASIN CODE

14

33

## LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	TOP SOIL			0	1'
BROWN	SANDY LOAM			1'	6'
GREY	SILT + SAND SEAM			6'	27
BLUE	CLAY			27	32
DRY Hole at completion.					

31	10-11	12-13	14-15	16-17	18-19	20-21	22-23	24-25	26-27	28-29	30-31	32-33	34-35	36-37	38-39	40-41	42-43	44-45	46-47	48-49	50-51	52-53	54-55	56-57	58-59	60-61	62-63	64-65	66-67	68-69	70-71	72-73	74-75	76-77	78-79	80-81	82-83	84-85	86-87	88-89	90-91	92-93	94-95	96-97	98-99	100-101	102-103	104-105	106-107	108-109	110-111	112-113	114-115	116-117	118-119	120-121	122-123	124-125	126-127	128-129	130-131	132-133	134-135	136-137	138-139	140-141	142-143	144-145	146-147	148-149	150-151	152-153	154-155	156-157	158-159	160-161	162-163	164-165	166-167	168-169	170-171	172-173	174-175	176-177	178-179	180-181	182-183	184-185	186-187	188-189	190-191	192-193	194-195	196-197	198-199	200-201	202-203	204-205	206-207	208-209	210-211	212-213	214-215	216-217	218-219	220-221	222-223	224-225	226-227	228-229	230-231	232-233	234-235	236-237	238-239	240-241	242-243	244-245	246-247	248-249	250-251	252-253	254-255	256-257	258-259	260-261	262-263	264-265	266-267	268-269	270-271	272-273	274-275	276-277	278-279	280-281	282-283	284-285	286-287	288-289	290-291	292-293	294-295	296-297	298-299	300-301	302-303	304-305	306-307	308-309	310-311	312-313	314-315	316-317	318-319	320-321	322-323	324-325	326-327	328-329	330-331	332-333	334-335	336-337	338-339	340-341	342-343	344-345	346-347	348-349	350-351	352-353	354-355	356-357	358-359	360-361	362-363	364-365	366-367	368-369	370-371	372-373	374-375	376-377	378-379	380-381	382-383	384-385	386-387	388-389	390-391	392-393	394-395	396-397	398-399	400-401	402-403	404-405	406-407	408-409	410-411	412-413	414-415	416-417	418-419	420-421	422-423	424-425	426-427	428-429	430-431	432-433	434-435	436-437	438-439	440-441	442-443	444-445	446-447	448-449	450-451	452-453	454-455	456-457	458-459	460-461	462-463	464-465	466-467	468-469	470-471	472-473	474-475	476-477	478-479	480-481	482-483	484-485	486-487	488-489	490-491	492-493	494-495	496-497	498-499	500-501	502-503	504-505	506-507	508-509	510-511	512-513	514-515	516-517	518-519	520-521	522-523	524-525	526-527	528-529	530-531	532-533	534-535	536-537	538-539	540-541	542-543	544-545	546-547	548-549	550-551	552-553	554-555	556-557	558-559	560-561	562-563	564-565	566-567	568-569	570-571	572-573	574-575	576-577	578-579	580-581	582-583	584-585	586-587	588-589	590-591	592-593	594-595	596-597	598-599	600-601	602-603	604-605	606-607	608-609	610-611	612-613	614-615	616-617	618-619	620-621	622-623	624-625	626-627	628-629	630-631	632-633	634-635	636-637	638-639	640-641	642-643	644-645	646-647	648-649	650-651	652-653	654-655	656-657	658-659	660-661	662-663	664-665	666-667	668-669	670-671	672-673	674-675	676-677	678-679	680-681	682-683	684-685	686-687	688-689	690-691	692-693	694-695	696-697	698-699	700-701	702-703	704-705	706-707	708-709	710-711	712-713	714-715	716-717	718-719	720-721	722-723	724-725	726-727	728-729	730-731	732-733	734-735	736-737	738-739	740-741	742-743	744-745	746-747	748-749	750-751	752-753	754-755	756-757	758-759	760-761	762-763	764-765	766-767	768-769	770-771	772-773	774-775	776-777	778-779	780-781	782-783	784-785	786-787	788-789	790-791	792-793	794-795	796-797	798-799	800-801	802-803	804-805	806-807	808-809	810-811	812-813	814-815	816-817	818-819	820-821	822-823	824-825	826-827	828-829	830-831	832-833	834-835	836-837	838-839	840-841	842-843	844-845	846-847	848-849	850-851	852-853	854-855	856-857	858-859	860-861	862-863	864-865	866-867	868-869	870-871	872-873	874-875	876-877	878-879	880-881	882-883	884-885	886-887	888-889	890-891	892-893	894-895	896-897	898-899	900-901	902-903	904-905	906-907	908-909	910-911	912-913	914-915	916-917	918-919	920-921	922-923	924-925	926-927	928-929	930-931	932-933	934-935	936-937	938-939	940-941	942-943	944-945	946-947	948-949	950-951	952-953	954-955	956-957	958-959	960-961	962-963	964-965	966-967	968-969	970-971	972-973	974-975	976-977	978-979	980-981	982-983	984-985	986-987	988-989	990-991	992-993	994-995	996-997	998-999	1000-1001	1002-1003	1004-1005	1006-1007	1008-1009	1010-1011	1012-1013	1014-1015	1016-1017	1018-1019	1020-1021	1022-1023	1024-1025	1026-1027	1028-1029	1030-1031	1032-1033	1034-1035	1036-1037	1038-1039	1040-1041	1042-1043	1044-1045	1046-1047	1048-1049	1050-1051	1052-1053	1054-1055	1056-1057	1058-1059	1060-1061	1062-1063	1064-1065	1066-1067	1068-1069	1070-1071	1072-1073	1074-1075	1076-1077	1078-1079	1080-1081	1082-1083	1084-1085	1086-1087	1088-1089	1090-1091	1092-1093	1094-1095	1096-1097	1098-1099	1100-1101	1102-1103	1104-1105	1106-1107	1108-1109	1110-1111	1112-1113	1114-1115	1116-1117	1118-1119	1120-1121	1122-1123	1124-1125	1126-1127	1128-1129	1130-1131	1132-1133	1134-1135	1136-1137	1138-1139	1140-1141	1142-1143	1144-1145	1146-1147	1148-1149	1150-1151	1152-1153	1154-1155	1156-1157	1158-1159	1160-1161	1162-1163	1164-1165	1166-1167	1168-1169	1170-1171	1172-1173	1174-1175	1176-1177	1178-1179	1180-1181	1182-1183	1184-1185	1186-1187	1188-1189	1190-1191	1192-1193	1194-1195	1196-1197	1198-1199	1200-1201	1202-1203	1204-1205	1206-1207	1208-1209	1210-1211	1212-1213	1214-1215	1216-1217	1218-1219	1220-1221	1222-1223	1224-1225	1226-1227	1228-1229	1230-1231	1232-1233	1234-1235	1236-1237	1238-1239	1240-1241	1242-1243	1244-1245	1246-1247	1248-1249	1250-1251	1252-1253	1254-1255	1256-1257	1258-1259	1260-1261	1262-1263	1264-1265	1266-1267	1268-1269	1270-1271	1272-1273	1274-1275	1276-1277	1278-1279	1280-1281	1282-1283	1284-1285	1286-1287	1288-1289	1290-1291	1292-1293	1294-1295	1296-1297	1298-1299	1300-1301	1302-1303	1304-1305	1306-1307	1308-1309	1310-1311	1312-1313	1314-1315	1316-1317	1318-1319	1320-1321	1322-1323	1324-1325	1326-1327	1328-1329	1330-1331	1332-1333	1334-1335	1336-1337	1338-1339	1340-1341	1342-1343	1344-1345	1346-1347	1348-1349	1350-1351	1352-1353	1354-1355	1356-1357	1358-1359	1360-1361	1362-1363	1364-1365	1366-1367	1368-1369	1370-1371	1372-1373	1374-1375	1376-1377	1378-1379	1380-1381	1382-1383	1384-1385	1386-1387	1388-1389	1390-1391	1392-1393	1394-1395	1396-1397	1398-1399	1400-1401	1402-1403	1404-1405	1406-1407	1408-1409	1410-1411	1412-1413	1414-1415	1416-1417	1418-1419	1420-1421	1422-1423	1424-1425	1426-1427	1428-1429	1430-1431	1432-1433	1434-1435	1436-1437	1438-1439	1440-1441	1442-1443	1444-1445	1446-1447	1448-1449	1450-1451	1452-1453	1454-1455	1456-1457	1458-1459	1460-1461	1462-1463	1464-1465	1466-1467	1468-1469	1470-1471	1472-1473	1474-1475	1476-1477	1478-1479	1480-1481	1482-1483	1484-1485	1486-1487	1488-1489	1490-1491	1492-1493	1494-1495	1496-1497	1498-1499	1500-1501	1502-1503	1504-1505	1506-1507	1508-1509	1510-1511	1512-1513	1514-1515	1516-1517	1518-1519	1520-1521	1522-1523	1524-1525	1526-1527	1528-1529	1530-1531	1532-1533	1534-1535	1536-1537	1538-1539	1540-1541	1542-1543	1544-1545	1546-1547	1548-1549	1550-1551	1552-1553	1554-1555	1556-1557	1558-1559	1560-1561	1562-1563	1564-1565	1566-1567	1568-1569	1570-1571	1572-1573	1574-1575	1576-1577	1578-1579	1580-1581	1582-1583	1584-1585	1586-1587	1588-1589	1590-1591	1592-1593	1594-1595	1596-1597	1598-1599	1600-1601	1602-1603	1604-1605	1606-1607	1608-1609	1610-1611	1612-1613	1614-1615	1616-1617	1618-1619	1620-1621	1622-1623	1624-1625	1626-1627	1628-1629	1630-1631	1632-1633	1634-1635	1636-1637	1638-1639	1640-1641	1642-1643	1644-1645	1646-1647	1648-1649	1650-1651	1652-1653	1654-1655	1656-1657	1658-1659	1660-1661	1662-1663	1664-1665	1666-1667	1668-1669	1670-1671	1672-1673	1674-1675	1676-1677	1678-1679	1680-1681	1682-1683	1684-1685	1686-1687	1688-1689	1690-1691	1692-1693	1
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Ontario

#118

# WATER WELL RECORD

40 1/15 B

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

COUNTY OR DISTRICT <b>NORFOLK</b>	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE <b>MIDDLETON</b>	CON. BLOCK, TRACT, SURVEY, ETC. <b>PLAN 607 51</b>	DATE COMPLETED DAY <b>03</b> MO <b>08</b> YR <b>73</b>
4403121		44003	TR 5, C 10, I 1
42280		0750	23

## LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	SANDY SUB SOIL			0	7'
GREY	SANDY SILT + CLAY LAYERS			7	23
GREY	SANDY SILT			23	30
Well clean out if necessary once without charge J. Butz					

31	0007626281	0023206281	00130706281
32			
41	WATER RECORD		
51	CASING & OPEN HOLE RECORD		
61	PLUGGING & SEALING RECORD		

71	PUMPING TEST METHOD		10	PUMPING RATE	11-14	DURATION OF PUMPING
	1 <input type="checkbox"/> PUMP	2 <input type="checkbox"/> BAILEY		0000		
	19-21	22-24	25	15 MINUTES	30 MINUTES	45 MINUTES
	010	031		28-30	29-31	32-34
				FEET	FEET	FEET
	IF FLOWING, GIVE RATE	38-41	PUMP INTAKE SET AT	42	WATER AT END OF TEST	
	RECOMMENDED PUMP TYPE	43-45	RECOMMENDED PUMP SETTING	46-49	RECOMMENDED PUMPING RATE	
	1 <input type="checkbox"/> SHALLOW	2 <input type="checkbox"/> DEEP	025		0007 FEET	

81	FINAL STATUS OF WELL		82	WATER USE		83	METHOD OF DRILLING	
	1 <input checked="" type="checkbox"/> WATER SUPPLY	2 <input type="checkbox"/> OBSERVATION WELL	3 <input type="checkbox"/> TEST HOLE	4 <input type="checkbox"/> RECHARGE WELL	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY	6 <input type="checkbox"/> ABANDONED, POOR QUALITY	7 <input type="checkbox"/> UNFINISHED	
	1 <input checked="" type="checkbox"/> DOMESTIC	2 <input type="checkbox"/> STOCK	3 <input type="checkbox"/> IRRIGATION	4 <input type="checkbox"/> INDUSTRIAL	5 <input type="checkbox"/> COMMERCIAL	6 <input type="checkbox"/> MUNICIPAL	7 <input type="checkbox"/> PUBLIC SUPPLY	
	8 <input type="checkbox"/> OTHER	9 <input type="checkbox"/> NOT USED						
	1 <input type="checkbox"/> CABLE TOOL	2 <input type="checkbox"/> ROTARY (CONVENTIONAL)	3 <input type="checkbox"/> ROTARY (REVERSE)	4 <input type="checkbox"/> ROTARY (AIR)	5 <input type="checkbox"/> AIR PERCUSSION	6 <input type="checkbox"/> BORING	7 <input type="checkbox"/> DIAMOND	
						8 <input type="checkbox"/> JETTING	9 <input type="checkbox"/> DRIVING	

LOCATION OF WELL	
IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.	
DRILLER'S REMARKS:	

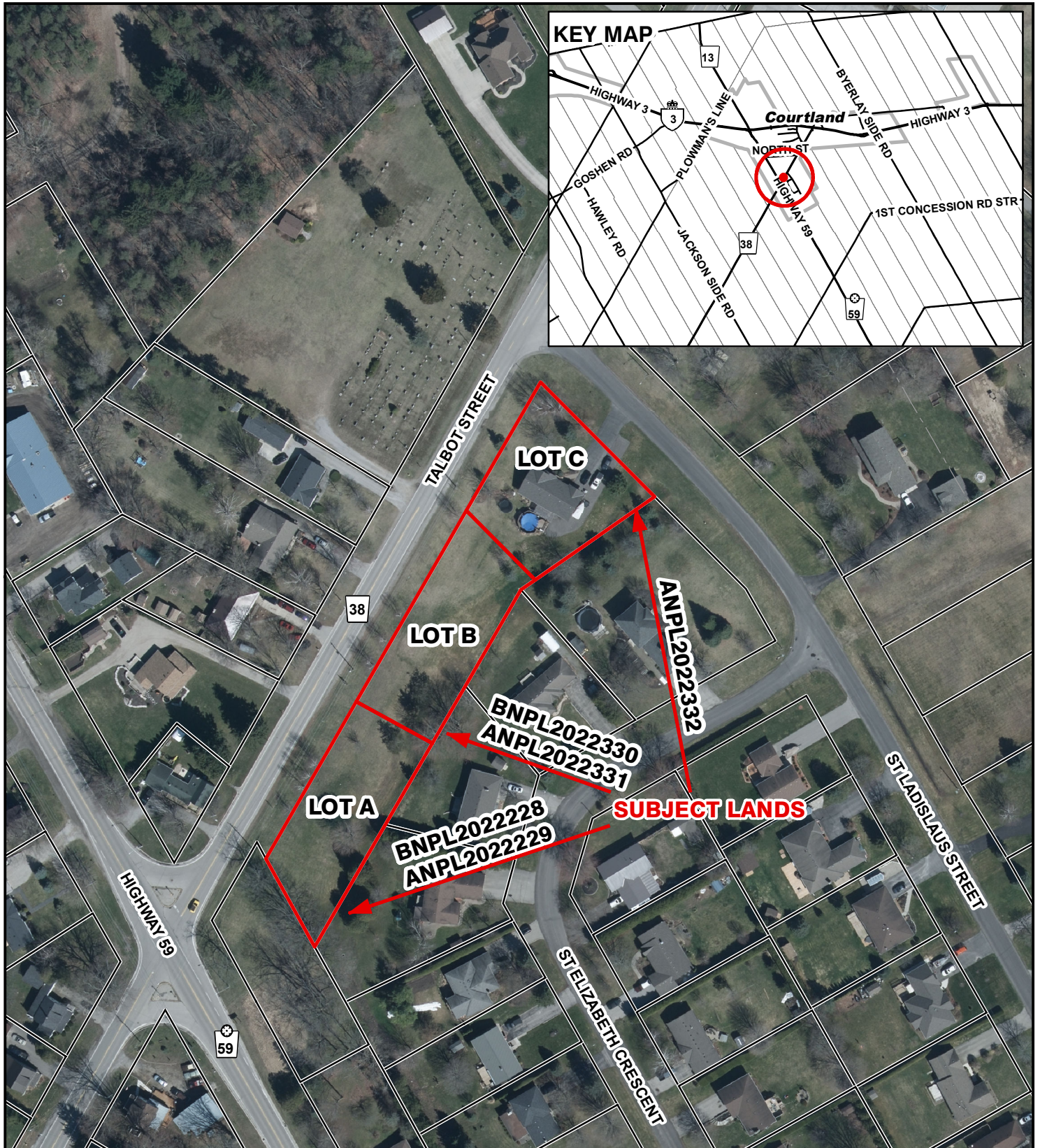
CONTRACTOR	NAME OF WELL CONTRACTOR	LICENCE NUMBER
	Johnson & Butz Well Pumping	3030
	240 King St. E. Brantford Ont	
	NAME OF DRILLER OR BOBER	LICENCE NUMBER
	J. Butz	
	SIGNATURE OF CONTRACTOR	SUBMISSION DATE
	J. Butz	DAY 3 MO 8 YR 73

DATE SOURCE	1	CONTRACTOR	3030	DATE RECEIVED	150873
DATE OF INSPECTION	2, 1, 74	INSPECTOR	7-1A		
REMARKS:					
CSS.S8					



**MAP A**  
**CONTEXT MAP**  
 Geographic Township of MIDDLETON

BNPL2022328, ANPL2022329  
 BNPL2022330, ANPL2022331  
 ANPL2022332

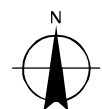


**Legend**

Subject Lands

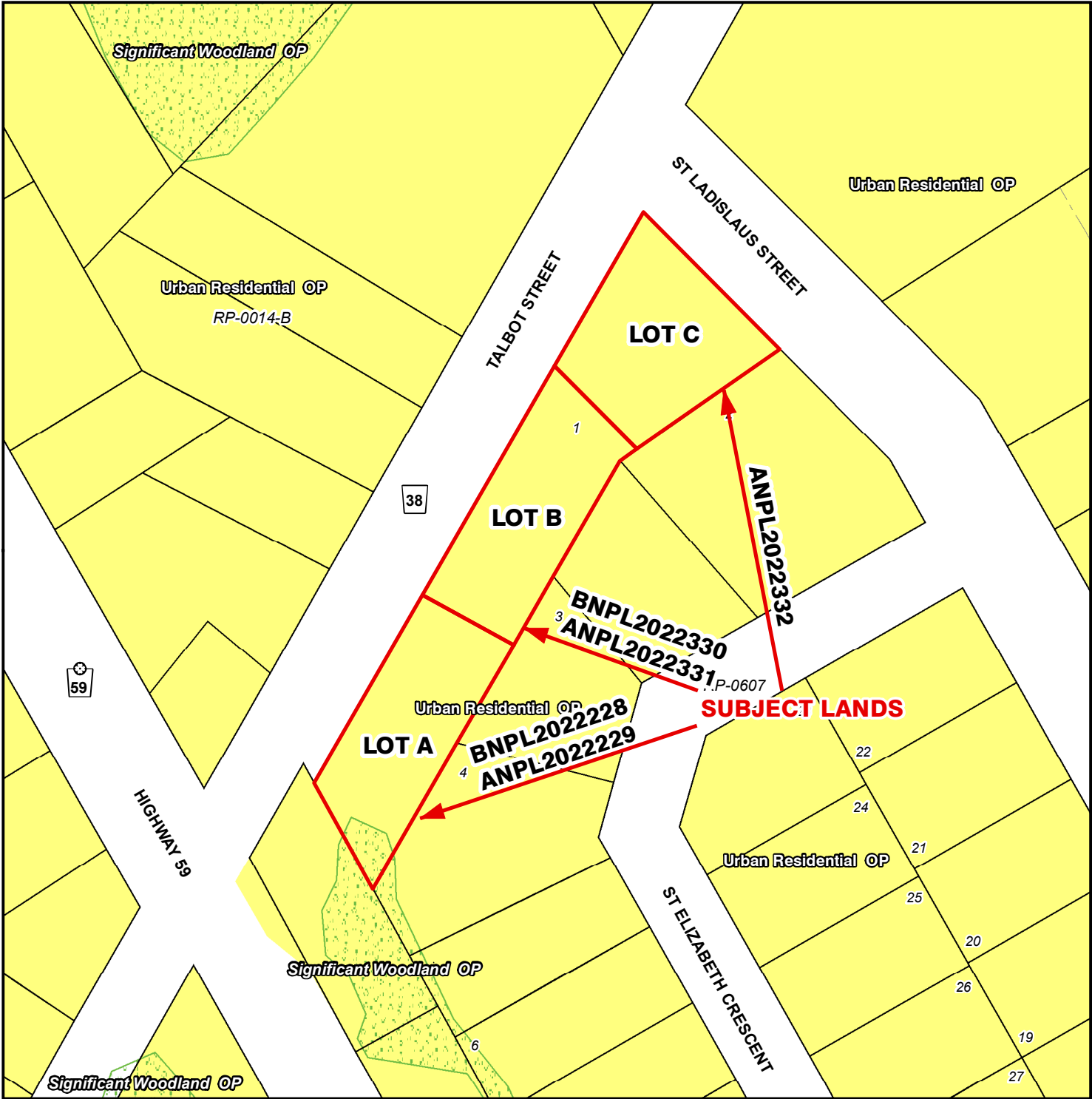
2020 Air Photo

11/15/2022



10 5 0 10 20 30 40  
 Meters








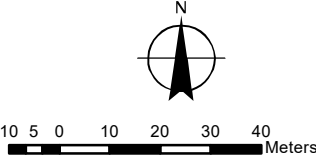
**Legend**

 Subject Lands

**Official Plan Designations**

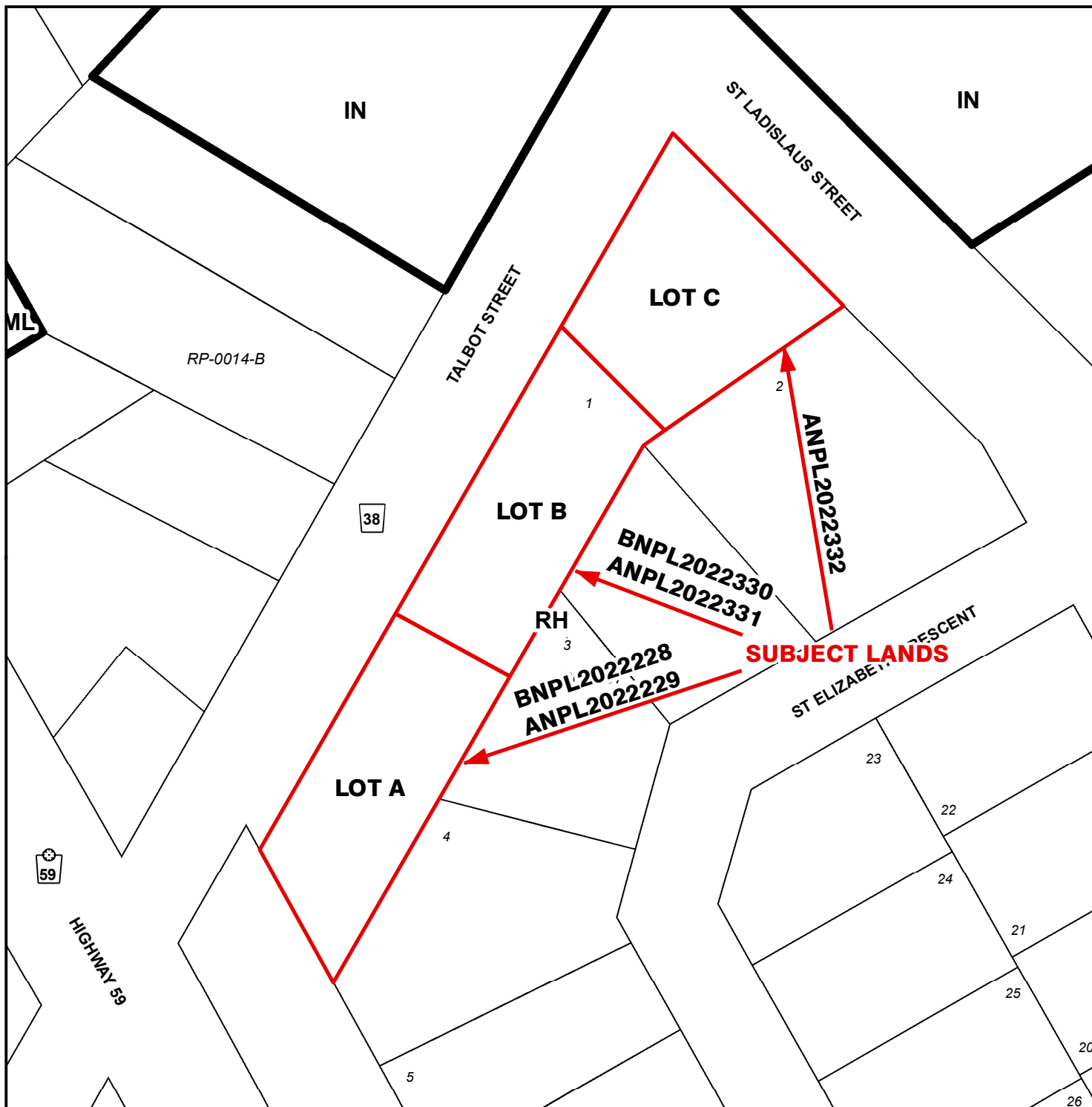
-  Urban Residential
-  Urban Area Boundary
-  Significant Woodland

11/15/2022



**MAP C**  
**ZONING BY-LAW MAP**  
 Geographic Township of MIDDLETON

BNPL2022328, ANPL2022329  
 BNPL2022330, ANPL2022331  
 ANPL2022332



**LEGEND**

Subject Lands

ZONING BY-LAW 1-Z-2014

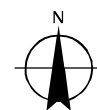
11/15/2022

(H) - Holding

RH - Hamlet Residential Zone

ML - Light Industrial Zone

IN - Neighbourhood Institutional Zone



9.54.75 0 9.5 19 28.5 38 Meters

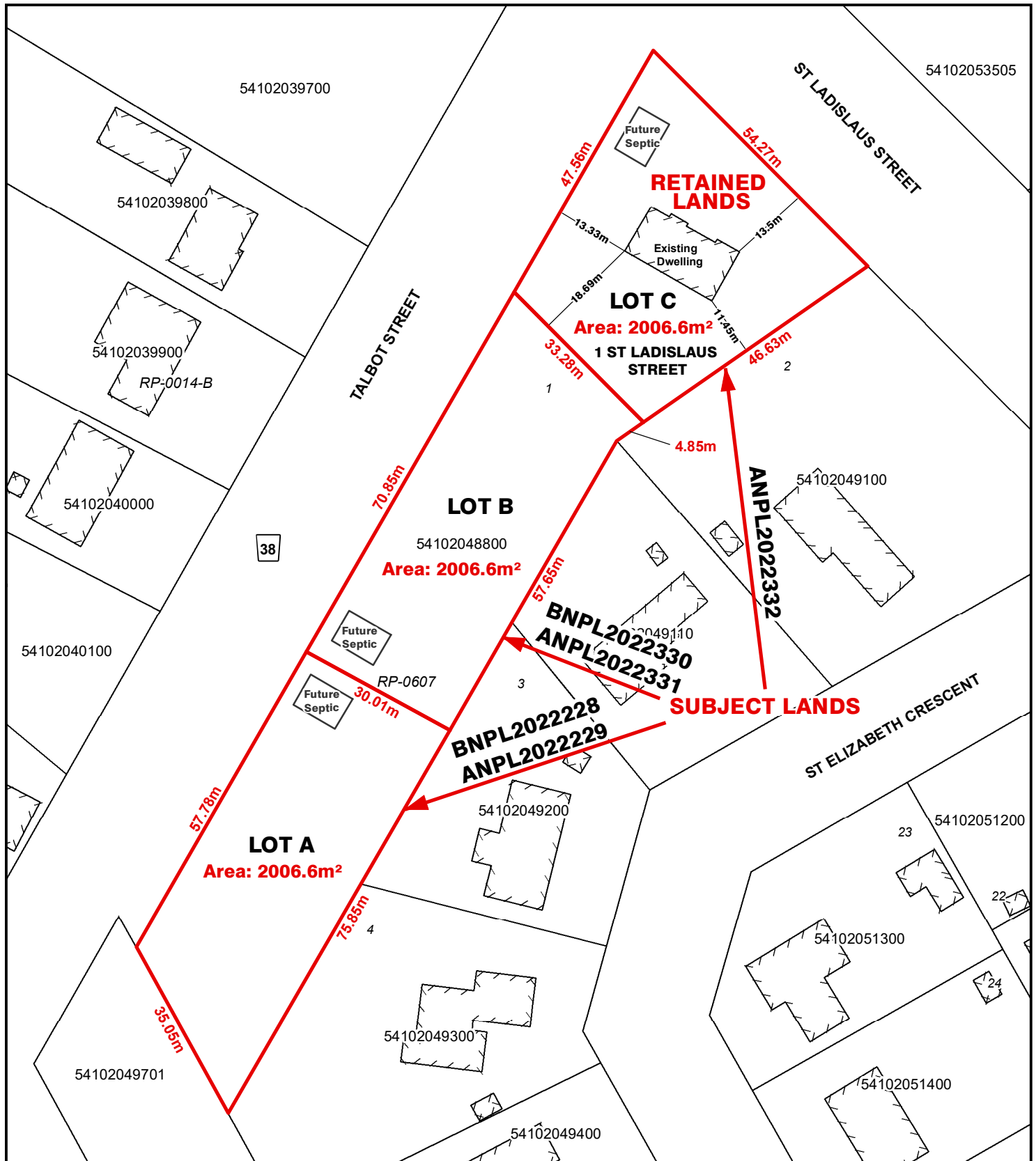
## CONCEPTUAL PLAN

Geographic Township of MIDDLETON

BNPL2022328, ANPL2022329

BNPL2022330, ANPL2022331

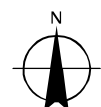
ANPL2022332



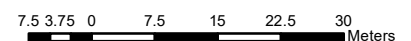
### Legend



## Subject Lands



11/15/2022



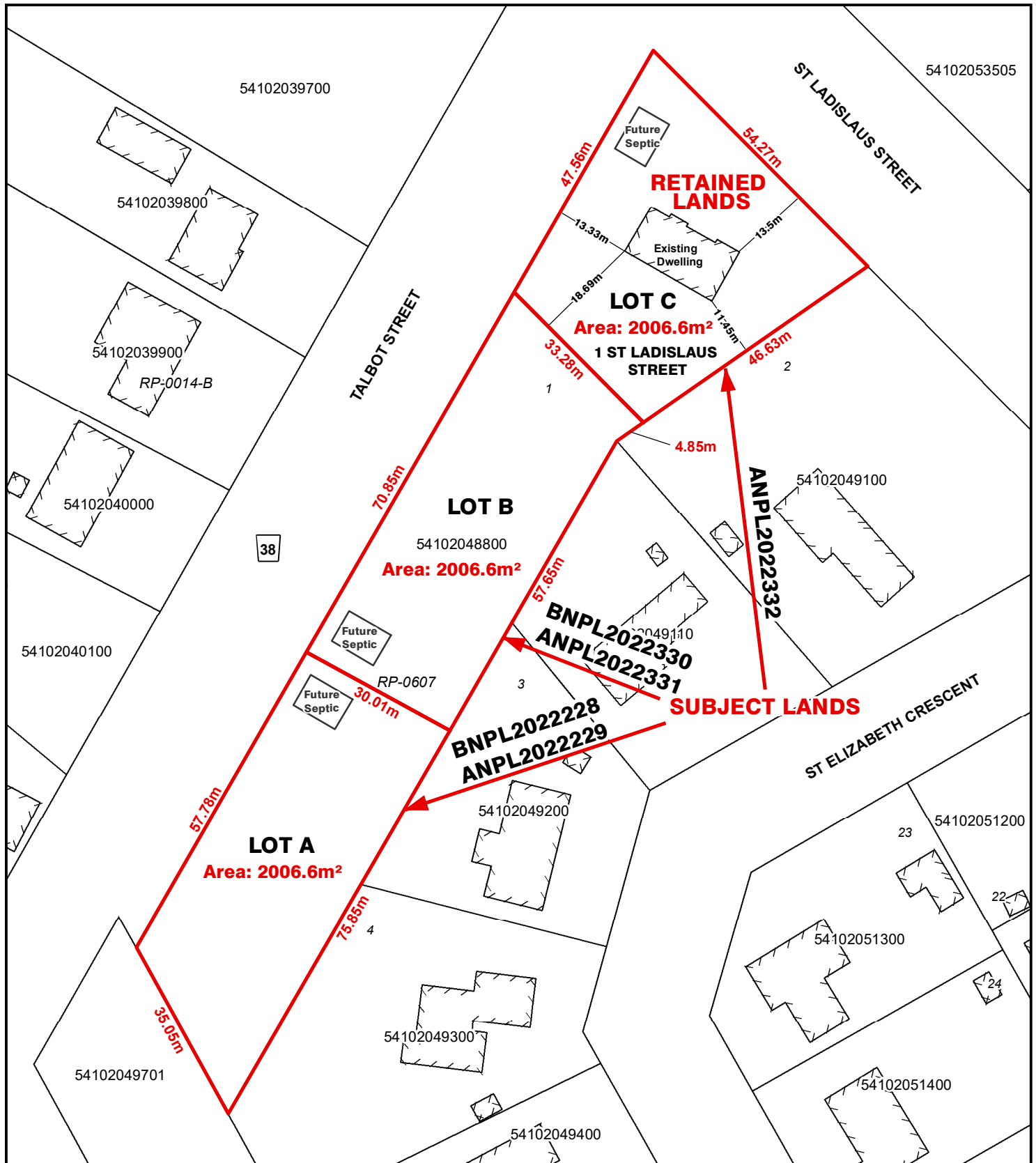


# LOCATION OF LANDS AFFECTED

## CONCEPTUAL PLAN

Geographic Township of MIDDLETON

BNPL2022328, ANPL2022329  
BNPL2022330, ANPL2022331  
ANPL2022332



### Legend

Subject Lands

11/15/2022

