For Office Use Only:

File Number	ANL2017233 *	SPRT Meeting	—
Related File Number	ANL2018NA2017 17239	Application Fee	$3014
Pre-consultation Meeting		Conservation Authority Fee	$403.30
Application Submitted	Sept 8/17	OSSD Form Provided	—
Complete Application	Oct 23/17	Planner	Alisha
Public Notice Sign			

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

- [ ] Official Plan Amendment
- [ ] Zoning By-Law Amendment
- [ ] Draft Plan of Subdivision/Vacant Land Condominium
- [ ] Condominium Exemption
- [ ] Site Plan Application
- [x] Consent/Severance
- [x] Minor Variance
- [ ] Extension of a Temporary Use By-law
- [ ] Part Lot Control
- [ ] Cash-in-Lieu of Parking
- [ ] Renewable Energy Project or Radio Communication Tower

Property Assessment Roll Number: 3310-545 020 17100

A. Applicant Information

Name of Owner 1819833 Ontario Inc. (Peter Banman)

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	RR#4 437 4th Concession
Town and Postal Code	Langton, ON N0E 1G0
Phone Number	519 639 1419
Cell Number	519 671 3763
Email	county.roofing@yahoo.ca

Name of Agent	Gary Blazak MA, RPP, MCIP
Address	P.O. Box 444 Lambeth Station
Town and Postal Code	London, ON
Phone Number	519 639 1419
Cell Number	519 639 1419
Email	gblazak@rogers.com

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

◯ Owner ◉ Agent

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

N/A

B. Location, Legal Description and Property Information

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

   Pt Lot 8 Concession 6 Township of Houghton, County of Norfolk

   Municipal Civic Address: 47 Cultus Road

   Present Official Plan Designation(s): Hamlet

   Present Zoning: RH - Hamlet Residential

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

   ◯ Yes ◉ No If yes, please specify:

3. The date the subject lands was acquired by the current owner: September, 2016
4. Present use of the subject lands:

   vacant residential

5. 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, height, etc. on your attached sketch which must be included with your application:

   One existing, abandoned dwelling will be removed.

6. If known, the date existing buildings or structures were constructed on the subject lands: 50+ years ago
7. If an addition to an existing building is being proposed, please explain what will it be used for (e.g. bedroom, kitchen, bathroom, etc.). If new fixtures are proposed, please describe.

   N/A

8. 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, height, etc. on your attached sketch which must be included with your application:

   Two single detached residential dwellings are intended to be built on the subject lands. Each dwelling will have an approx. floor area of 232m2 (2500 ft2).

9. If known, the date the proposed buildings or structures will be constructed on the subject lands:

   2018

10. 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:

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

    50+ years

12. Existing use of abutting properties:

    Residential

13. 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. Please explain what you propose to do on the subject lands/premises which makes this development application necessary:

   The existing abandoned dwelling will be removed, the subject lands will be severed into two building lots, and two new dwellings will be erected.

   relief of 0.05 ha from minimum required lot area of 0.4 ha to permit 0.35 ha

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

   Each of the proposed residential building lots will be slightly undersized (i.e. 3497.74m2 vs. 4000m2 required in the Zoning By-law).

3. Does the requested amendment alter all or any part of the boundary of an area of settlement in the municipality or implement a new area of settlement in the municipality? ◯ Yes ◉ No If yes, describe its effect:

4. Does the requested amendment remove the subject land from an area of employment? ◯ Yes ◉ No If yes, describe its effect:

5. Does the requested amendment alter, replace, or delete a policy of the Official Plan? ◯ Yes ◉ No If yes, identify the policy, and also include a proposed text of the policy amendment (if additional space is required, please attach a separate sheet):

6. Description of land intended to be severed in metric units:
   Frontage: 33.2m
   Depth: 124.6m (average)
   Width: 23m @ rear / 33m @ front
   Lot Area: 3497.71m2
   Present Use: vacant residential
   Proposed Use: residential single detached dwelling
   Proposed final lot size (if boundary adjustment): 3497.71m2

   Description of land intended to be retained in metric units:
   Frontage: 33.2m
   Depth: 124.6m (average)
   Width: 23m @ rear / 33m @ front
   Lot Area: 3497.74m2
   Present Use: residential (abandoned dwelling)
   Proposed Use: new residential single detached dwelling

7. Description of proposed right-of-way/easement:
   Frontage: _____
   Depth: _____
   Width: _____
   Area: _____
   Proposed use: _____

8. Name of person(s), if known, to whom lands or interest in lands to be transferred, leased or charged (if known):
   Unknown

9. **Site Information**	**Existing**	**Proposed**
Please indicate unit of measurement, i.e. m, m^2 or %, etc.		
Lot frontage	66.446m	33.223m
Lot depth	124.8m	124.8m
Lot width	46m(rear)-66m(front)	23m(rear)-33m(front)
Lot area	6995.45m2	3497.74m2+3497.71m2
Lot coverage	1.6%	7% (approx.)
Front yard	10.88m	15m (estimated)
Rear yard	121m	100m (estimated)
Left Interior side yard	1.8m	6+m
Right Interior side yard	16.4m	6+m
Exterior side yard (corner lot)		
Landscaped open space	95%	90% (estimated)
Entrance access width	2m	3m
Exit access width		
Size of fencing or screening	1.5m	2m
Type of fencing	chain link (partial)	chain link/board

10. **Building Size**

Number of storeys	1	2
Building height	6m	11m
Total ground floor area	111m2 (approx.)	232m2 (estimated)
Total gross floor area	111m2 (approx.)	232m2 (estimated)
Total useable floor area	0	232m2 (estimated)

11. **Off Street Parking and Loading Facilities**

Number of off street parking spaces	2	3
Number of visitor parking spaces	1	2
Number of accessible parking spaces	2	3
Number of off street loading facilities	N/A	

12. **Multiple Family Residential (if applicable)**

Number of buildings existing: _____

Number of buildings proposed: 2

Is this a conversion or addition to an existing building? ◯ Yes ◉ No

If yes, describe: _____

Type

Number of Units

Floor Area per Unit in m^2

Bachelor	_____	_____
One bedroom	_____	_____
Two bedroom	_____	_____
Three bedroom	_____	_____
Townhouse	_____	_____

Other facilities provided (e.g. play facilities, underground parking, games room, swimming pool etc.):

13. **Commercial/Industrial Uses (if applicable)**

Number of buildings existing: _____

Number of buildings proposed: _____

Is this a conversion or addition to an existing building? ◯ Yes ◉ No

If yes, describe:

Indicate the gross floor area by the type of use (e.g. office, retail, storage, etc.):

Seating Capacity (for assembly halls, etc.): _____

Total number of fixed seats: _____

Describe the type of business(es) proposed: _____

Total number of staff proposed initially: _____

Total number of staff proposed in five years: _____

Maximum number of staff on the largest shift: _____

Is open storage required: ◯Yes ◯ No

Is a residential use proposed as part of, or accessory to commercial/industrial use?

◯Yes ◯No If yes please describe:

14. **Institutional (if applicable)**

Describe the type of use proposed: _____

Seating capacity (if applicable): _____

Number of beds (if applicable): _____

Total number of staff proposed initially: _____

Total number of staff proposed in five years: _____

Maximum number of staff on the largest shift: _____

Indicate the gross floor area by the type of use (e.g. office, retail, storage, etc.):

15. **Describe Recreational or Other Use(s) (if applicable)**

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 (example: gas station, petroleum storage, etc.):

2. Has the grading of the subject lands been changed through excavation or the addition of earth or other material? ◯ Yes ◉ No ◯ Unknown

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

4. Provide the information you used to determine the answers to the above questions:

   Owner's knowledge/familiarity with the subject lands.

5. 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:

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:

   The property has been in residential use for several decades. There is no natural heritage component/identified habitat on any part of the subject lands.

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:

   Note: If in an area of source water 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

- ◯ Municipal piped water
- ◯ Communal wells
- ◉ Individual wells
- ◯ Other (describe below)

_____

Sewage Treatment

- ◯ Municipal sewers
- ◯ Communal system
- ◉ Septic tank and tile bed
- ◯ Other (describe below)

_____

Storm Drainage

- ◯ Storm sewers
- ◉ Open ditches
- ◯ Other (describe below)

_____

2. Have you consulted with Public Works & Environmental Services concerning storm water management?

◯ Yes ◉ No

3. Has the existing drainage on the subject lands been altered?

◯ Yes ◉ No

4. Does a legal and adequate outlet for storm drainage exist?

◉ Yes ◯ No

5. How many water meters are required? 1 for each of 2 dwelling units

6. Existing or proposed access to subject lands:

(●) Municipal road ( ) Provincial highway

( ) Unopened road ( ) Other (describe below)

Name of road/street:

Cultus Road

G. Other Information

1. Does the application involve a local business? ( ) Yes (●) No

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

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.

   A Hydrogeotechnical Assessment demonstrating feasibility of private water and sewage disposal systems is appended to this application.

   A Survey Sketch detailing the proposed severed and retained lots is appended to this application, as is a modified survey sketch with probable building envelopes.

   The existing (abandoned) well and private sewage disposal works will be excavated and removed during the construction of the new dwellings.

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. Key map
4. Scale, legend and north arrow
5. Legal description and municipal address
6. Development name
7. Drawing title, number, original date and revision dates
8. Owner's name, address and telephone number
9. Engineer's name, address and telephone number
10. Existing and proposed easements and right of ways
11. Zoning compliance table – required versus proposed
12. Parking space totals – required and proposed
13. Loading spaces, facilities and routes
14. All dimensions of the subject lands
15. Dimensions and setbacks of all buildings and structures
16. Gross, ground and useable floor area
17. Lot coverage
18. Floor area ratio
19. Building entrances and grades
20. Names of adjacent streets
21. Driveways, curbs, drop curbs, pavement markings, widths, radii and traffic directional signs
22. Fire access and routes
23. Location, dimensions and number of parking spaces (including visitor and accessible) and aisles
24. Location of mechanical room
25. Refuse disposal and storage areas including any related screening
26. Winter snow storage location
27. Landscape areas with dimensions
28. Natural features, watercourses and trees
29. Fire hydrants and utilities location
30. Fencing, screening and buffering – size, type and location
31. All hard surface materials
32. Light standards and wall mounted lights

33. Signs
34. Sidewalks and walkways with dimensions
35. Pedestrian access routes into site and around site
36. Bicycle parking
37. Professional engineer's stamp

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

☐ Architectural Plan

☐ Buildings Elevation Plan

☐ Cut and Fill Plan

☐ Erosion and Sediment Control Plan

☐ Grading and Drainage Control Plan (around perimeter and within site) (existing and proposed)

☐ Landscape Plan

☐ Photometric (Lighting) Plan

☐ Plan and Profile Drawings

☐ Site Servicing Plan

☐ Storm water Management Plan

☐ Street Sign and Traffic Plan

☐ Street Tree Planting Plan

☐ Tree Preservation Plan

☐ Archaeological Assessment

☐ Environmental Impact Study

☐ Functional Servicing Report

☐ Geotechnical Study / Hydrogeological Review

☐ Minimum Distance Separation Schedule

☐ Noise or Vibration Study

☐ Record of Site Condition

☐ Storm water Management Report

☐ Traffic Impact Study – please contact the Planner to verify the scope of the study required

Standard condominium exemptions will require the following supporting materials:

☐ Plan of standard condominium (2 paper copies and 1 electronic copy)

☐ Draft condominium declaration

Your development approval might also be dependent on Ministry of Environment and Climate Change, 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. Development Agreements

A development agreement may be required prior to approval for site plan, subdivision and condominium applications. Should this be necessary for your development, you will be contacted by the agreement administrator with further details of the requirements including but not limited to insurance coverage, professional liability for your engineer, additional fees and securities.

J. 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.

Owner/Applicant Signature

Aug 17/17
Date

K. 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.

Owner/Applicant Signature

Aug 17/17
Date

L. 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 Signature — Date: Aug 17/17

M. 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 Peter Banman am/are the registered owner(s) of the lands that is the subject of this application for site plan approval.

I/We authorize Amy Blazak 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 — Date: Aug 17/17

Owner — Date: Aug 17/17

N. Declaration of Applicant and Agent

I hereby apply for development approval and declare that all of the above statements and the statements contained in all of the exhibits transmitted herewith are accurate and true. I understand that site plan approval is required before a building permit can be issued.

Applicant Signature — Date

Agent Signature — Date: SEPT 6, 2017

O. Declaration

I, GARY BLAZAK of THE CITY OF LONDON

solemnly declare that:

all of the above statements and the statements contained in all of the exhibits transmitted herewith are true and I make this solemn declaration conscientiously believing it to be true and knowing that it is of the same force and effect as if made under oath and by virtue of *The Canada Evidence Act*.

Declared before me at:

185 Robinson Street

In Simcoe, ON

This 8th day of September

A.D., 20 17

Owner/Applicant Signature

ALISHA KATHLEEN CULL, a Commissioner, etc., Province of Ontario, for the Corporation of Norfolk County. Expires April 28, 2019

A Commissioner, etc.

Simcoe: 185 Robinson St.
Simcoe, ON
N3Y 5L6
519-426-5870

Langton: 22 Albert St.
Langton, On.
N0E 1G0
519-875-4485

Zoning Deficiency

PROPERTY INFORMATION

Address:47 Cultus Road, Cultus

Legal Decription: HGN CON 6 PT LOT 8 RP 37R6253 PART 1 IRREG 1.73AC 218.00FR D - Parcel 1

Roll Number:331054502017100

Application #:

Information Origins:Development Services GIS/Kim Husted Survey 16-12599

Hamlet Residential Zone (RH)

	Main Building	REQUIRED	PROPOSED	DEFICIENCY	UNITS
5.7.2	a) minimum *lot area*				
	i) new *lot*	0.40	0.35	0.05	ha
	ii) *lot of record*	930.00		N/A	m.sq
	b) minimum *lot frontage*				
	i) *interior lot*	30.00	33.22	N/A	m
	ii) *corner lot*	30.00		N/A	m
	iii) *lot of record*	18.00		N/A	m
	c) mimimum *front yard*	6.00		N/A	m
	d) minimum *exterior side yard*	6.00		N/A	m
	e) minimum interior side yard				
	i) attached garage	1.20		N/A	m
		1.20		N/A	m
	ii) detached garage	3.00		N/A	m
		1.20		N/A	m
	f) minimum *rear yard*	9.00		N/A	m
	g) maximum building height	11.00		N/A	m

Comments: 1) Proposed lot does not meet the minimum lot area requirement - deficient 0.05ha

The proposed information and any supporting documents have been provided by the owner/applicant. The above information is only in respect to the associated planning application and does not relieve the owner/applicant from obtaining all other permits/approvals required. The owner/applicant hereby accepts full responsibility for the accuracy of the proposed information provided on this form.

Prepared By:
Scott Puillandre

I have read and understand the above.

Signature of owner or authorized agent — date: OCT 17/17

Signature of Zoning Administrator — date: 11 Sept 17

AS PER: Fritz R. Enzlin. CBCO, CRBO - Chief Building Official Manager, Building & Bylaw Division, Norfolk County

SKETCH

ILLUSTRATING PROPOSED SEVERANCE
FOR: PETER BANMAN

PART OF LOT 8
CONCESSION 6
TOWNSHIP OF HOUGHTON
COUNTY OF NORFOLK

KIM HUSTED SURVEYING LTD.

NOT TO SCALE

CAUTION

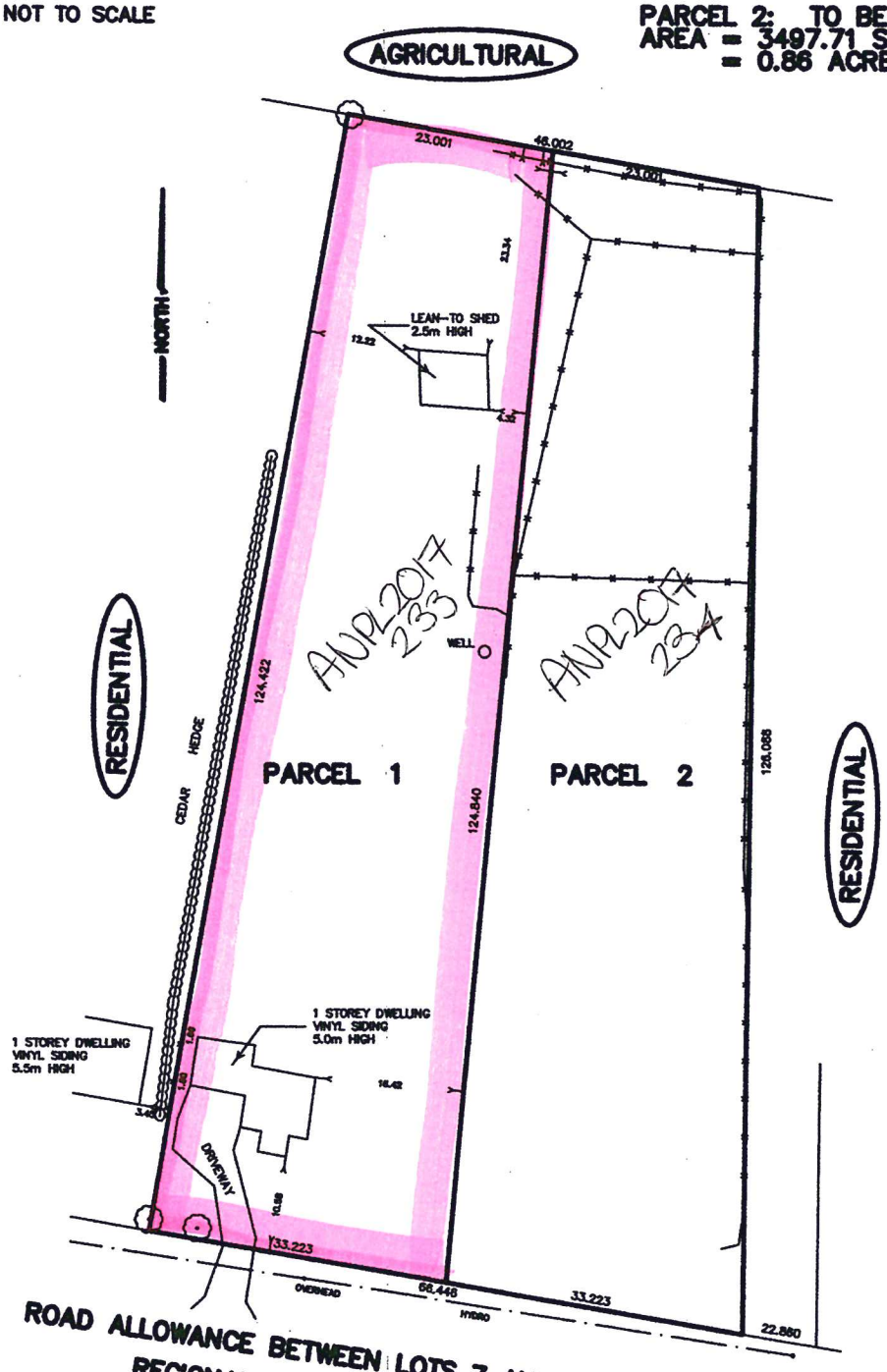
THIS IS NOT A PLAN OF SURVEY OR SURVEYOR'S REPORT AND SHALL NOT BE USED FOR TRANSACTION OR FINANCING PURPOSES

NOTES

(1) – PROPERTY DIMENSIONS ARE AS SHOWN ON PLAN AND HAVE NOT BEEN VERIFIED BY SURVEY

PARCEL 1: TO BE RETAINED
AREA = 3497.74 SQUARE METRES
= 0.86 ACRES

PARCEL 2: TO BE SEVERED
AREA = 3497.71 SQUARE METRES
= 0.86 ACRES



KIM HUSTED SURVEYING LTD.
ONTARIO LAND SURVEYOR
30 HARVEY STREET, TILLSONBURG ONTARIO, N4G 3J8
PHONE: 519-842-3638 FAX: 519-842-3639

C:\OSOFT141\WAYNE\16 12599SEVERANCE.dwg, 7/31/2017 4:01:0

PROJECT: 16-12599SKETCH REFERENCE: DISK No. 844

Ian D. Wilson Associates Ltd.
Tel: 519 233 3500
Fax: 519 233 4531
P.O. Box 289
Clinton, Ontario
N0M 1L0

April 18, 2017

Wilson Associates
Consulting Hydrogeologists

Mr. Peter Banman
437 4th Concession ENR
R.R.#4
Langton, ON
N0E 1GO

Dear Mr. Banman:

Re: Hydrogeological Assessment
Proposed Residential Lot
47 Cultus Road, Community of Cultus, County of Norfolk

It is proposed to sever a residential lot from an existing 0.72ha (approximate) parcel of land located at 47 Cultus Road within part of Lot 8, Concession 6, Geographic Township of Houghton. Figure 1, derived from the Norfolk Community Web Map Service, shows the location of the proposed lot and the existing property.

It is proposed to service the lot with an individual drilled water well and an individual subsurface sewage disposal system. No municipal water and sewage is locally available.

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

- Exploratory test holes were completed on the existing property to collect representative soil samples for percolation rate analyses and to identify shallow groundwater conditions.
- A representative water sample was collected from one of the two test holes to characterize shallow groundwater quality.
- Sewage system impact potential under current Ministry of the Environment and Climate Change Procedure D-5-4.
- A review of water well records to provide comment regarding aquifer conditions and groundwater supply potential.

At the request of Mr. Peter Banman, the above hydrogeologic investigative requirements were addressed through a test hole and groundwater sampling program conducted March 9, 2017 and a subsequent background hydrogeologic analysis. This report provides a summary of the background hydrogeologic information, groundwater availability, upper aquifer water quality, the results of the soils suitability study and comment regarding sewage impact potential.

SITE SETTING, GEOLOGY AND HYDROGEOLOGY

The proposed lot is located within the east portion of the Community of Cultus, on the north side of Cultus Road, approximately 360m east of 6th Concession Road ENR. The existing lot is rectangularly-shaped, and has a frontage of about 68m along Cultus Road and an overall depth of about 124m.

The subject lands are mainly cleared, exhibit a shallow relief, and contain an existing residence and small barn. Lands to the west and east along Cultus Road are occupied by residential lots. Lands to the north and south are mainly in agricultural use.

No surface water bodies are located in the close vicinity of the site, however southward-flowing Clear Creek is located about 160 to the west of the site. Overall regional drainage is to the south.

The site is located within the Norfolk Sand Plain physiographic region of southern Ontario. According to the Ontario Geological Survey Map P.2624 "Quaternary Geology of the Port Burwell Area", the upper overburden consists of glaciolacustrine deposits of sand. All local well records indicate that the upper 10m of the overburden consists mainly of sand. No reported local wells are completed to a depth of greater than about 10m, however more distant well records indicate that the overburden below this depth becomes fine-grained.

The bedrock beneath the site consists of grey shale of the Marcellus Formation.

Virtually all local groundwater supplies are obtained from the granular deposits of the upper 10m of the overburden. The lower overburden typically provides little to no potential for groundwater supply due to its fine-grained character, and the bedrock is rarely 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 possibly very slight gradient to the south or southeast.

WELL POTENTIAL ANALYSIS

To establish well yield and basic water quality probabilities, up-to-date Ministry of the Environment and Climate Change (MOECC) records for water wells located within approximately 500 metres of the proposed lots were reviewed. The MOECC water well record database contains the records for only 8 water wells within the review area, however many wells in the area will be shallow sandpoint wells, which often are unreported to the MOECC. The water well records used in the preparation of the review are attached.

The following summarizes the reported well record information within the review area.

Number of wells:	8
Drilled Construction:	0
Dug/Bored Construction:	0
Sandpoint Construction:	7
Unknown Construction:	1
Completed in Overburden:	8 (100%)
Completed in Bedrock:	0

The following summarizes the reported well performance data.

	Maximum	Minimum	Average
Well Depth (m)	11.9	6.4	8.4
Test Rate (L/min)	182	9	50
Test Period (Hours)	4	1	2.25

Reported Water Quality:	
Fresh:	7 or 88% (no objectionable tastes or odours)
Sulphurous:	none
Mineralized/Saline:	none
Quality Not Reported:	1 or 12% (11%)
Dry Well:	none

The average reported well within about 500 metres of the proposed lots is of sandpoint construction, completed in the upper overburden sand aquifer to a depth of 8.4 metres and yields 50 litres of fresh-quality water per minute over an average period of 2.25 hours. This average yield exceeds the maximum water demand of a normal four bedroom home specified by the Ministry of the Environment and Climate Change (i.e. 18L/min without inline storage).

It should be noted that the above summary and analysis is based solely on information contained in the Ministry of the Environment and Climate Change water well record database as reported by drilling contractors and is not subject to quality control, however the overall analytical summary is favourable.

SOILS INVESTIGATION

Test Holes:

Two exploratory test holes were excavated within the subject lands on March 9, 2017 using portable 5cm-diameter soil sampling auger. The test holes were each completed to a depth of 1.8m, the depth limit of the auger. The soil profile was logged in each hole and representative soil samples were collected from each identified soil horizon for subsequent classification, analysis and storage. A standpipe was installed in TH2 for subsequent water level and water quality sampling purposes. The attached diagram shows the approximate test hole locations. The following table provides a summary of the analytical results for a representative soil

sample.

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 %		
TH2 S1	0.6	0	4	96	0	$1x10^{-2}$	7 to 8

Note: The above coefficient of permeability ("k" values) and T-time (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 holes consisted of fine sand which exhibits a percolation rate in the range of 7 to 8 minutes/cm.

The grain-size analysis curve is attached.

The following provides a summary of the test hole logs:

TEST HOLE 1

Depth (m)	Material
0 - 0.1	black topsoil
0.1 - 1.82	grey-brown, loose, dry to wet fine SAND with traces of silt (estimated T-time 7 to 8 min/cm)

TEST HOLE 2

Depth (m)	Material
0 - 0.1	black topsoil
0.1 - 1.82	grey-brown, loose, dry to wet fine SAND with traces of silt (estimated T-time 7 to 8 min/cm)

Shallow Groundwater Conditions:

Emergent groundwater was observed in the open Test Holes on March 9, 2017 as follows:

Test Hole 1: Emergent groundwater observed below 0.5m below grade
Test Hole 2: Emergent groundwater observed below 0.6m below grade

Test Hole 2 Standpipe - Water level 0.7m below grade March 16, 2017

A sample of shallow groundwater was collected from the Test Hole 2 standpipe on March 16, 2017. Prior to sampling, the standpipe was purged of three full volumes of standing water using a Waterra inertial pump. The sample was then collected in a laboratory-supplied bottle, stored

in an ice-packed cooler and submitted to Maxxam Analytics Inc. under chain of custody for an analysis of nitrate content. The Test Hole 2 shallow groundwater sample contained a relatively low nitrate content of 1.45mg/L. Based on regional drainage patterns, shallow groundwater flow is most likely generally southwards, and the nitrate content of shallow groundwater is likely mainly derived from upgradient (north) agricultural practices.

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 elevated watertable conditions, the bases of tile trenches must be set no lower than 0.3 to 0.4m above current grade. A design percolation rate of 8min/cm can be assumed.

A standard fill-based sewage disposal system will require a contact area of about 160m^2, including the 15m downslope mantle area, for a standard 3-bedroom home with a design sewage flow of 1,600L/day.

It is understood that the County typically requires that a full sewage system reserve area be utilized in lot design. As the retained lot and proposed lot will each be approximately 3,600m^2 in area, sufficient area is available for a 160m^2 primary sewage disposal area, 160m^2 reserve sewage disposal area, house envelope and setbacks to any on-site and nearby sandpoint wells (30m).

SEWAGE SYSTEM IMPACT ASSESSMENT

Under the current Ministry of the Environment and Climate Change (MOECC) "Technical Guideline For Individual On-Site Sewage Systems : Water Quality Impact Risk Assessment" (Procedure D-5-4), 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. Following the determination of background shallow groundwater nitrate levels, 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.

The water from the on-site standpipe contained a relatively low (1.45mg/L) level of nitrate. As this background nitrate level is derived from upgradient off-site agricultural practices (rather than existing upgradient septic systems, which are absent to the north), this background nitrate content is not included in the calculation below.

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. As the retained and proposed lot are less than 0.8ha in area, Step 1 of the guideline does not apply.

Step 2 of the guideline is applicable where groundwater resources can be confidently demonstrated to be hydraulically isolated from potential sewage pathways. As the primary water supply aquifer is the upper sands, groundwater resources are not hydraulically isolated from potential sewage pathways, and 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 lot. Under the current MOECC 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 soil profile consists of sand (infiltration factor 40%), the overall relief is flat (infiltration factor 30%) and the cover is cleared (infiltration factor 10%), all resulting in an infiltration factor of 80%. 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 390mm per year (Clear Creek sub-watershed, precipitation 950mm/year, evapotranspiration 560mm/year). As such, the annual infiltration rate will be 312mm (80% of 390mm), representing 33% of average annual precipitation in the sub-watershed.

The following mass-balance formula is used to calculate the impact of the proposed development under the MOECC 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 (C_T)
Q_S = Volume of sewage (1000 L/day/lot x 2 lots, per MOECC guideline)
C_S = Nitrate content of sewage (40 mg/L)
Q_P = Infiltration (2.3×10^6L/year on 0.72ha at 312mm/year)
C_P = Nitrate content of shallow groundwater (0mg/L (see above))

Therefore:

$(7.3 \times 10^5 \text{L/year} + 2.3 \times 10^6 \text{L/year}) \times C_T = (7.3 \times 10^5 \text{L/year} \times 40 \text{mg/L}) + (2.3 \times 10^6 \text{L/year} \times 0 \text{mg/L})$
$C_T = 9.6$mg/L

Based on an infiltration rate of 312mm/year, the nitrate impact of two lots on the current 0.72ha parcel will be 9.6mg/L. This is considered to meet the 10mg/L nitrate limit of the MOECC guideline.

The above assessment approach, conducted in accordance with Ministry of the Environment and Climate Change 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.

CONCLUSIONS AND RECOMMENDATIONS

1. The average reported well within about 500 metres of the proposed lots is of sandpoint construction, completed in the upper overburden sand aquifer to a depth of 8.4 metres and yields 50 litres of fresh-quality water per minute over an average period of 2.25 hours. This average yield exceeds the maximum water demand of a normal four bedroom home specified by the Ministry of the Environment and Climate Change (i.e. 18L/min without inline storage).

2. The soil profile across the entire property consists of sand, which exhibits a percolation rate in the range of 7 to 8 minutes/cm. The bases of sewage system tile trenches should be set no lower than 0.3 to 0.4m above current grade due to observed watertable conditions.

3. As the retained lot and proposed lot will each be approximately 3,600m^2 in area, sufficient area is available for a 160m^2 primary sewage disposal area, 160m^2 reserve sewage disposal area, house envelope and setbacks to any on-site and nearby sandpoint wells (30m).

4. Under MOECC Procedure D-5-4, the nitrate impact of the retained and proposed lot essentially meets the guideline limit of 10mg/L.

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

IAN D. WILSON ASSOCIATES LIMITED

Geoffrey Rether, B.Sc., P.Geo.

MAP NORFOLK - Community Web Map

April 6, 2017

1:750

0 0.005 0.01 0.02 mi

0 0.01 0.02 0.04 km

Land Parcels

Plan Lines

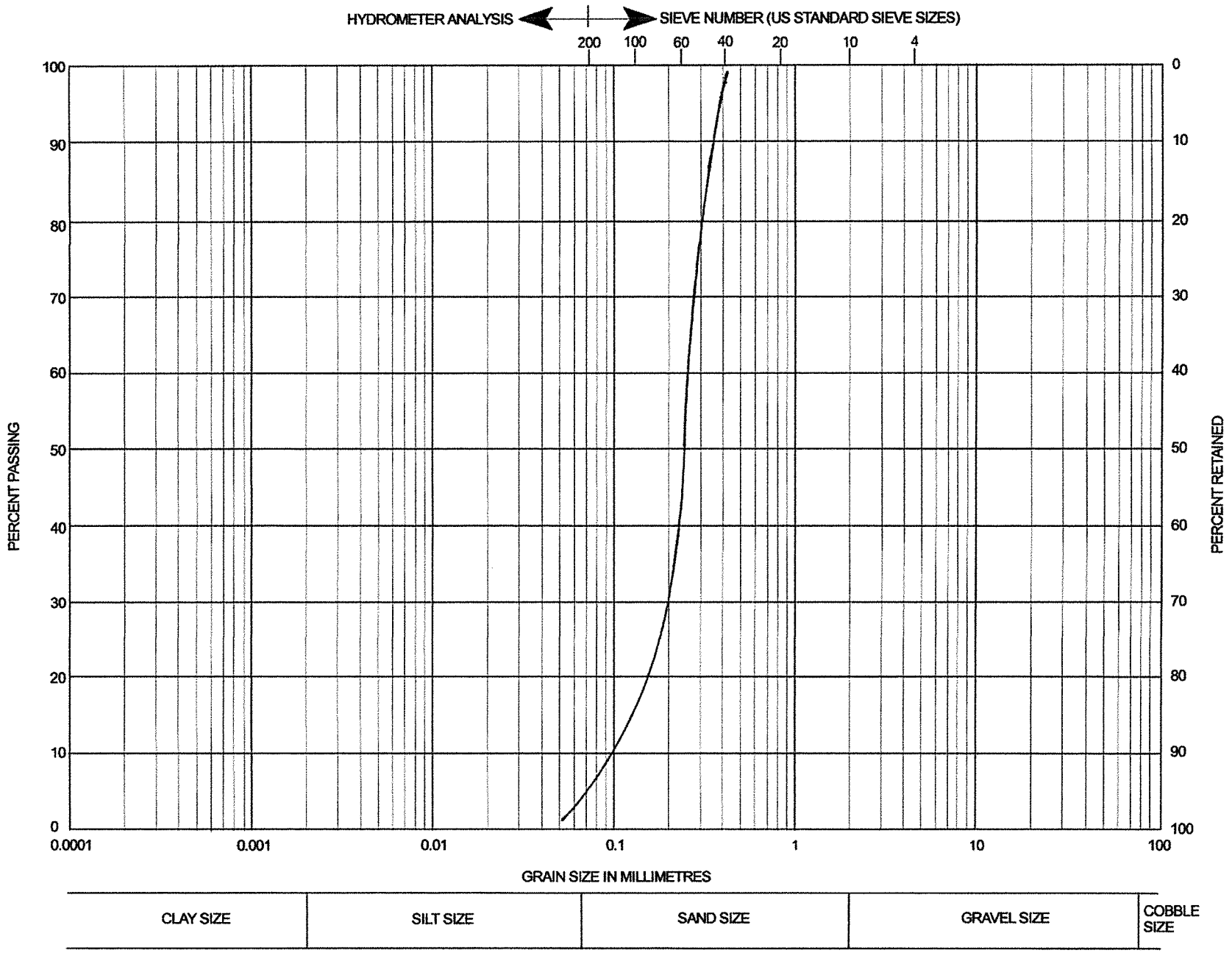
LAYOUT OF LOT AND LOCATIONS OF TEST HOLES

47 CULTUS ROAD

SCALE: as shown

GRAIN SIZE DISTRIBUTION CHART

PROJECT / SAMPLE **Mr. Peter Banman - 47 Cultus Road, Test Hole 2, Sample 1**



IAN D. WILSON ASSOCIATES LIMITED

Maxxam
A Bureau Veritas Group Company

Your Project #: CULTUS
Your C.O.C. #: 580130-01-01

Attention:Geoff Rether

Ian D Wilson Associates Ltd
PO Box 299
76722 Airport Rd
Clinton, ON
N0M 1L0

Report Date: 2017/03/21
Report #: R4398629
Version: 1 - Final

CERTIFICATE OF ANALYSIS

MAXXAM JOB #: B754348
Received: 2017/03/17, 15:01

Sample Matrix: Water
Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Nitrate (NO3) and Nitrite (NO2) in Water (1)	1	N/A	2017/03/21	CAM SOP-00440	SM 22 4500-NO3I/NO2B

Remarks:

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.
Results relate to samples tested.
This Certificate shall not be reproduced except in full, without the written approval of the laboratory.
Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.
* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.
(1) Values for calculated parameters may not appear to add up due to rounding of raw data and significant figures.

Encryption Key

Ashton Gibson
Project Manager
21 Mar 2017 17:24:20

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Ashton Gibson, Project Manager
Email: AGibson@maxxam.ca
Phone# (905) 817-5700

==========

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam
A Bureau Veritas Group Company

Maxxam Job #: B754348
Report Date: 2017/03/21

Ian D Wilson Associates Ltd
Client Project #: CULTUS

RESULTS OF ANALYSES OF WATER

Maxxam ID		EBO302		
Sampling Date		2017/03/16 10:00		
COC Number		580130-01-01		
	UNITS	CULTUSTP2	RDL	QC Batch
Inorganics				
Nitrate (N)	mg/L	1.45	0.10	4905145

RDL = Reportable Detection Limit
QC Batch = Quality Control Batch

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam Job #: B754348
Report Date: 2017/03/21

Ian D Wilson Associates Ltd
Client Project #: CULTUS

TEST SUMMARY

Maxxam ID: EBO302
Sample ID: CULTUSTP2
Matrix: Water

Collected: 2017/03/16
Shipped:
Received: 2017/03/17

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrate (NO3) and Nitrite (NO2) in Water	LACH	4905145	N/A	2017/03/21	Chandra Nandlal

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Maxxam Job #: B754348
Report Date: 2017/03/21

Ian D Wilson Associates Ltd
Client Project #: CULTUS

GENERAL COMMENTS

There was 2.0cm of visible sediment in the 500mL plastic bottle for nitrate analysis.

Results relate only to the items tested.

Maxxam Analytics International Corporation o/a Maxxam Analytics 6740 Campobello Road, Mississauga, Ontario, L5N 2L8 Tel: (905) 817-5700 Toll-Free: 800-563-6266 Fax: (905) 817-5777 www.maxxam.ca

Maxxam
A Bureau Veritas Group Company

Maxxam Job #: B754348
Report Date: 2017/03/21

Ian D Wilson Associates Ltd
Client Project #: CULTUS

QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
4905145	C_N	Matrix Spike	Nitrate (N)	2017/03/21		111	%	80 - 120
4905145	C_N	Spiked Blank	Nitrate (N)	2017/03/21		103	%	80 - 120
4905145	C_N	Method Blank	Nitrate (N)	2017/03/21	ND, RDL=0.10		mg/L	
4905145	C_N	RPD	Nitrate (N)	2017/03/21	NC		%	20

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

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Maxxam Job #: B754348
Report Date: 2017/03/21

Ian D Wilson Associates Ltd
Client Project #: CULTUS

VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Brad Newman, Scientific Specialist

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GROUND WATER BRANCH
JUN 26 1959
ONTARIO WATER RESOURCES COMMISSION

503

59-4

UTM 17 Z 531600 E
5 R 4719910 N
Elev. 5 R 0637
Basin 28

The Ontario Water Resources Commission Act, 1957

WATER WELL RECORD

40 I/10 E

County or District Norfolk Township, Village, Town or City Houghton
Con. X 5 Lot 8 Date completed 25 April 1959 (day, month, year)
Owner [redacted] (print in block letters) Address R.R.#1 Clear Creek

Casing and Screen Record

Inside diameter of casing 1¼"
Total length of casing 22'
Type of screen 2" Weaver Filter
Length of screen 3 ft.
Depth to top of screen 27'
Diameter of finished hole 1¼"

Pumping Test

Static level 12'
Test-pumping rate 250 g.p.h. ~~G.P.M.~~
Pumping level N.D. (Dist.)
Duration of test pumping 2 hrs.
Water clear or cloudy at end of test clear
Recommended pumping rate 250 g.p.h. ~~G.P.M.~~
with pumping level of —

Well Log

Overburden and Bedrock Record	From ft.	To ft.
Top Soil	0	1'
Yellow Sand	1'	12'
Light Grey Quicksand	12'	23'
Clay Hard Pan	23'	23'6"
Dark Grey Quick Sand	23'6"	30'

Water Record

Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)
12'	Nil	Fresh

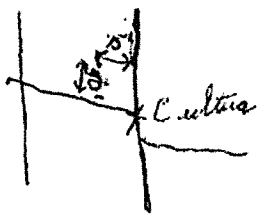
For what purpose(s) is the water to be used?
House
Is well on upland, in valley, or on hillside? Level

Drilling Firm James N. Weaver & Son
Address 332 Tilbury Ave.
Tilbury Ont.
Licence Number 173
Name of Driller James N. Weaver
Address Same
Date April 25/59
James N. Weaver
(Signature of Licensed Drilling Contractor)

Location of Well

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

N



Form 5
15M-58-4149

M

UTM 1 7 z 5 3 1 6 5 0 E

5 R 4 7 1 9 6 7 5 N

Elev. 5 R 0 6 3 0

Basin 2 3

59-5

44 № 504

[stamp] GROUND WATER ... JAN ... 1960 ... RESOURCES COMMISSION

The Ontario Water Resources Commission Act, 1957

WATER WELL RECORD

County or District Norfolk 4OI/10E Township, Village, Town or City Houghton

[redacted] completed 5 (day) Sept. (month) 59 (year)

[redacted]ess R.R. 1 Clear Creek

Casing and Screen Record		Pumping Test	
Inside diameter of casing	1"	Static level	8
Total length of casing	35'	Test-pumping rate	7 G.P.M.
Type of screen	1¼" D sand point	Pumping level	direct
Length of screen	4'	Duration of test pumping	3 hrs.
Depth to top of screen	35'	Water clear or cloudy at end of test	clear
Diameter of finished hole	(2" hole drilled)	Recommended pumping rate	7 G.P.M.
		with pumping level of	direct

Well Log: Overburden and Bedrock Record	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)
dark sandy loam	0	8			
fine sand	8	28			
medium water sand	28	39	8	0	fresh

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

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

Drilling Firm L. Hodgson & Sons

Address R.R. 1 Walsingham Ont.

Licence Number

Name of Driller L. Hodgson

Address Walsingham

Date Jan 20/60

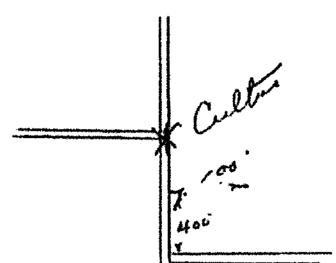
Lewis Hodgson

(Signature of Licensed Drilling Contractor)

Location of Well

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

N.



CSS.S8

Well ID

Well ID Number: 4400505
Well Audit Number:
Well Tag Number:

This table contains information from the original well record and any subsequent updates.

Well Location

Address of Well Location	
Township	HOUGHTON TOWNSHIP
Lot	008
Concession	CON 06
County/District/Municipality	NORFOLK
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 531663.80 Northing: 4720142.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
	FSND			0 ft	21 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed

Method of Construction & Well Use

Method of Construction	Well Use
Cable Tool	
	Domestic

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
2 inch	STEEL		17 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
		17 ft	21 ft

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 2623

Results of Well Yield Testing

After test of well yield, water was	CLEAR
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	2 GPM
Duration of Pumping	4 h:0 m
Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	2 GPM
Well Production	PUMP
Disinfected?	

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	13 ft		
1		1	
2		2	
3		3	
4		4	
5		5	
10		10	
15		15	
20		20	
25		25	
30		30	
40		40	
45		45	
50		50	
60		60	

Water Details

Water Found at Depth	Kind
13 ft	Fresh

Hole Diameter

Depth From	Depth To	Diameter

Audit Number:

Date Well Completed: July 25, 1963

Date Well Record Received by MOE: August 12, 1963

Updated: March 20, 2017
RateRate
Sharefacebook twitter Print
Tags

- Environment and energy,
- Drinking water,

Con VI
Lot 8

401/10E7

iM |1|7| z |5|3|1|1|7|4|0|

4 R |4|7|1|9|5|5|0|

Elev. |5| R |0|6|2|5|

Basin |2|3|

CODED

4402343

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District ~~Wa~~ Norfolk. Township, Village, Town or City Charles Houghton

Con. 6 VI Lot 8 Date completed June 9 - 69 (day month year)

[redacted] Address RR1 Clear Creek,

SB

Casing and Screen Record

Inside diameter of casing 1 in

Total length of casing 18 ft.

Type of screen Stainless steel 1¼.

Length of screen 4 ft.

Depth to top of screen 20 ft

Diameter of finished hole 1 in.

Pumping Test

Static level 5 ft.

Test-pumping rate 5 gl. G.P.M.

Pumping level ~~6 ft~~ Direct

Duration of test pumping 1 hr

Water clear or cloudy at end of test clear.

Recommended pumping rate 5 gl. G.P.M.

with pump setting of Direct 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)
yellow sand.	0	5		
" water sand.	5	10	5 - 24	F
gray " " fine	10	24		

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

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

Drilling or Boring Firm Lewis Hodgson & Sons
Glen Meyer.

Address

Licence Number 3418

Name of Driller or Borer Lewis Hodgson

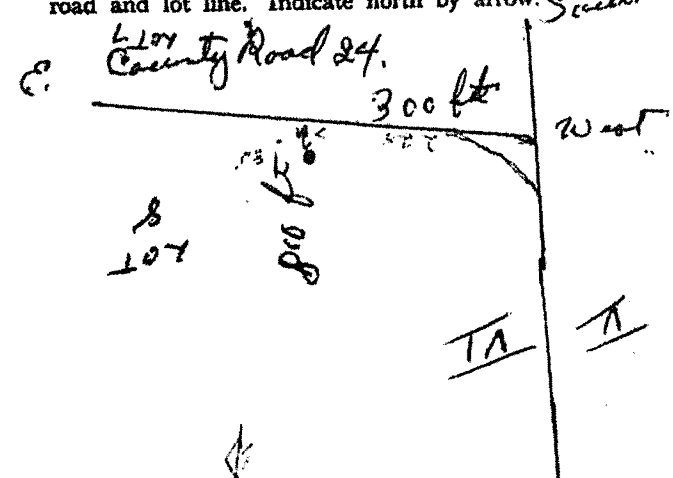
Address Glen Meyer.

Date June 9 - 69

Lewis Hodgson
(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 5M 60-20912

CSS.S8 Nar.

OWRC COPY

MINISTRY OF THE ENVIRONMENT

The Ontario Water Resources Act

WATER WELL RECORD

40-I/10L

Ontario

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

(11) 4403930

NUMBER 44002 CON CON 06

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON	BLOCK	TRACT	SURVEY, ETC	LOT
Norfolk	Houghton	6				8

[redacted] Tillis

DATE COMPLETED: DAY 18 MO 11 YR 77

19,980 E 0664 N 23

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
yellow	sand	clay	Soil	0	14
yellow	sand	silt	14 soil 24 hard	14	24

(31) 0014528058S 0024528OG

(32)

(41) WATER RECORD

WATER FOUND AT FEET	KIND OF WATER
0014	1 ☒ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR / 2 ☐ SALTY 4 ☐ MINERAL

(51) CASING & OPEN HOLE RECORD

INSIDE DIAM. (INCHES)	MATERIAL	WALL THICKNESS (INCHES)	DEPTH - FEET FROM	TO
01	1 ☐ STEEL 2 ☒ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE		-4	0014
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.) 008 DIA. (INCHES) 01250 LENGTH (FEET) 10

MATERIAL AND TYPE: Howard Smith Stainless

DEPTH TO TOP OF SCREEN (FEET)

(61) PLUGGING & SEALING RECORD

DEPTH SET AT (FEET) FROM	TO	MATERIAL AND TYPE	(CLASS OF CEMENT, LEAD PACKER, ETC.)

(71) PUMPING TEST

METHOD: 1 ☒ PUMP 2 ☐ BAILER

PUMPING RATE: 0004 GPM

DURATION OF PUMPING: 04 HOURS 00 MINUTES

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☐ PUMPING 2 ☐ RECOVERY	IN MINUTES	10 MINUTES	45 MINUTES	90 MINUTES
008 FEET	[illegible] FEET		FEET	FEET	FEET	FEET

TO FLOWING GIVE RATE: GPM

PUMP INTAKE SET AT: +1 FEET

WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: 1 ☒ SHALLOW ☐ DEEP

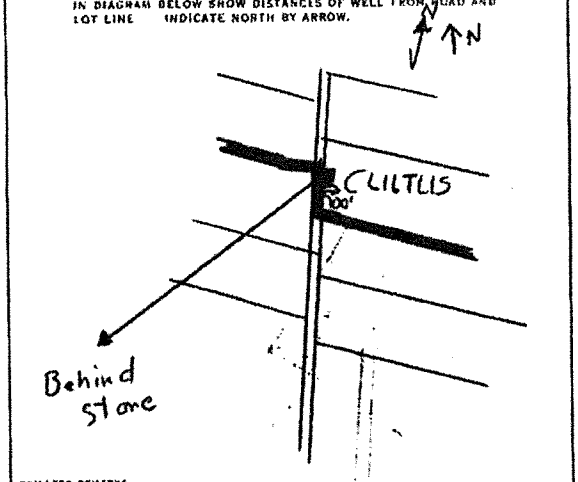
RECOMMENDED PUMP SETTING: 4 FEET

RECOMMENDED PUMPING RATE: 0003 GPM

GPM/FT. SPECIFIC CAPACITY

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.



DRILLERS REMARKS

FINAL STATUS OF WELL 1

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 01

1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING 1

1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: Warren Water Wells LICENCE NUMBER: 5413

ADDRESS OF WELL CONTRACTOR: RR7 Tillsonburg

NAME OF WELL TECHNICIAN (DRILLER OR BORER): Holzhey LICENCE NUMBER: 5413

WELL CONTRACTOR: J. Holzhey SUBMISSION DATE: DAY ____ MO ____ YR ____

OFFICE USE ONLY

DATA SOURCE 1 CONTRACTOR 5413 DATE RECEIVED 080278

DATE OF INSPECTION May 08/78 INSPECTOR EH

REMARKS

CSS.S8 WI

YE ENVIRONMENT COPY

FORM 7 MOE 07/091

Ministry of the Environment
Ontario

The Ontario Water Resources Act 40I/10k.

WATER WELL RECORD

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

(11) 4404498 MUNICIP 44002 CON CON 106

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	Houghton	Con 6	006
	RR1 Clear Creek		DATE COMPLETED DAY 03 MO 11 YR 81

(21) 17 531700 4719040 4 0660 4 R3

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET FROM	TO
YELLOW	SAND			0	10
GREY	SAND		WATER SAND	10	29

(31) 0010528 0029128

(32)

(41) WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0010	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ #5 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

(51) CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
02	1 ☐ STEEL 2 ☒ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	.154	0	0025
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
006	02000 INCHES	04 FEET
MATERIAL AND TYPE: Johonson SS	DEPTH TO TOP OF SCREEN: 0025 FEET	

(61) PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

(71) PUMPING TEST

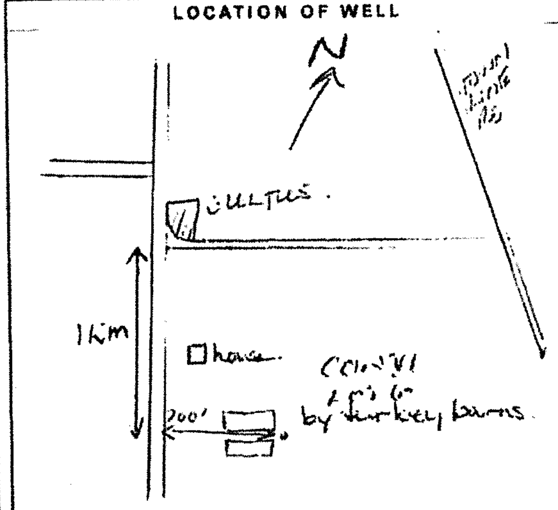
PUMPING TEST METHOD: 1 ☒ PUMP 2 ☐ BAILER
PUMPING RATE: 0040 GPM
DURATION OF PUMPING: 01 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
010 FEET	FEET	FEET	FEET	FEET	FEET

1 ☐ PUMPING 2 ☐ RECOVERY

IF FLOWING GIVE RATE: GPM
PUMP INTAKE SET AT: FEET
WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE: ☐ SHALLOW ☐ DEEP
RECOMMENDED PUMP SETTING: 004 FEET
RECOMMENDED PUMPING RATE: 0015 GPM

LOCATION OF WELL



DRILLERS REMARKS:

FINAL STATUS OF WELL 1
1 ☐ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 02
1 ☐ DOMESTIC 2 ☒ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING 8
1 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☒ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: R.H Belore — LICENCE NUMBER: 1361
ADDRESS: 6 Northern Lane
NAME OF DRILLER OR BORER: H. Robert Armstrong — LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: Robert Belore — SUBMISSION DATE: DAY 3 MO 11 YR 81

OFFICE USE ONLY

DATA SOURCE: 1 — CONTRACTOR: 1361 — DATE RECEIVED: 301181
DATE OF INSPECTION: — INSPECTOR:
REMARKS: tenant.

CSS.S8

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506-4-77 FORM 7

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

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

11 4406644 MUNICIP 44092 CON. Con. 106

COUNTY OR DISTRICT Norfolk | TOWNSHIP BOROUGH CITY TOWN VILLAGE Houghton | CON BLOCK TRACT SURVEY ETC 6 | LOT 7

[redacted] RR 1 Clear Creek | DATE COMPLETED DAY 16 MO 6 YR 95

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH FEET FROM	TO

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
19-28	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 5 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 5 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 5 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 5 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERALS 5 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH FEET FROM	TO
1 1/4	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☒ PLASTIC	.250	-3	23
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

SCREEN

SIZE(S) OF OPENING (SLOT NO.) 0014 | DIAMETER 1 1/4 INCHES | LENGTH 5 FEET
MATERIAL AND TYPE Tail Stainless | DEPTH TO TOP OF SCREEN 23 FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT FEET FROM	TO	MATERIAL AND TYPE (CEMENT GROUT CLAY PACKER ETC.)

71 PUMPING TEST

PUMPING TEST METHOD 1 ☒ PUMP 2 ☐ BAILER | PUMPING RATE 6 GPM | DURATION OF PUMPING 2 HOURS ___ MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 15 MINUTES	20 MINUTES	45 MINUTES	60 MINUTES
15 FEET	15 FEET	15 FEET	FEET	FEET	15 FEET

WATER LEVELS DURING: 1 ☐ PUMPING 2 ☒ RECOVERY

IF FLOWING GIVE RATE ___ GPM | PUMP INTAKE SET AT +1 FEET | WATER AT END OF TEST 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE 1 ☒ SHALLOW 2 ☐ DEEP | RECOMMENDED PUMP SETTING -3 FEET | RECOMMENDED PUMPING RATE 6-7 GPM

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED INSUFFICIENT SUPPLY 6 ☐ ABANDONED POOR QUALITY 7 ☐ UNFINISHED 8 ☐ DEWATERING

WATER USE

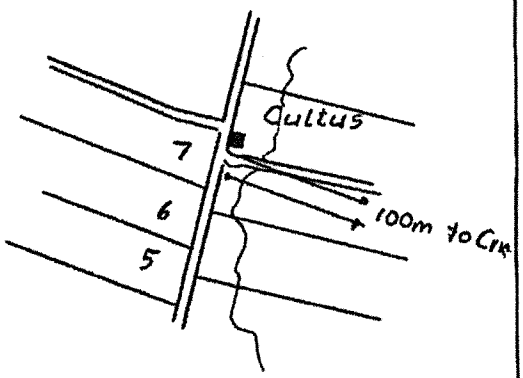
1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED ☐ OTHER

METHOD OF CONSTRUCTION

1 ☒ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING ☐ DIGGING ☐ OTHER

LOCATION OF WELL

IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE INDICATE NORTH BY ARROW.



DRILLERS REMARKS 150116

CONTRACTOR

NAME OF WELL CONTRACTOR Warren Water Wells | WELL CONTRACTOR'S LICENCE NUMBER 5413
ADDRESS 1212 T. Tillsonburg
NAME OF WELL TECHNICIAN Gus Holzheu | WELL TECHNICIAN'S LICENCE NUMBER T-137
SIGNATURE OF TECHNICIAN/CONTRACTOR | SUBMISSION DATE DAY ___ MO ___ YR ___

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR 5413 | DATE RECEIVED SEP 12 1995
DATE OF INSPECTION | INSPECTOR
REMARKS

CSS.ES

MINISTRY OF THE ENVIRONMENT COPY

FORM NO 0506 (11/86) FORM 9

Ontario Ministry of the Environment

Well Tag Number: A 038118 (W)
A038118

Well Record
Regulation 903 Ontario Water Resources Act

page ___ of ___

Instructions for Completing Form

- For use in the **Province of Ontario** only. This document is a permanent **legal** document. Please retain for future reference.
- All Sections **must** be completed in full to avoid delays in processing. Further instructions and explanations are available on the back of this form.
- Questions regarding completing this application can be directed to the Water Well Management Coordinator at 416-235-6203.
- **All metre measurements shall be reported to 1/10th of a metre.**
- Please print clearly in blue or black ink only.

Ministry Use Only

[redacted]

Address of Well Location (County/District/Municipality): NORFOLK
Township: Houghton
Lot: 8
Concession: XI
RR#/Street Number/Name: 111 Cultus Rd.
City/Town/Village:
Site/Compartment/Block/Tract etc.
GPS Reading: NAD 83 Zone 17 Easting 530478 Northing 4719693
Unit Make/Model: MGG 2000
Mode of Operation: ☐ Undifferentiated ☒ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To (Metres)
BLACK	TOPSOIL			0	.62
BROWN	SAND			.62	4.31
BROWN	FINE SAND			4.31	7.69

Hole Diameter

Depth From	Depth To (Metres)	Diameter (Centimetres)
0	4.31	12.70

Water Record

Water found at ___ Metres / Kind of Water

4.31 m	☒ Fresh	☐ Sulphur	☐ Gas
	☐ Salty	☐ Minerals	☐ Other:
___ m	☐ Fresh	☐ Sulphur	☐ Gas
	☐ Salty	☐ Minerals	☐ Other:
___ m	☐ Fresh	☐ Sulphur	☐ Gas
	☐ Salty	☐ Minerals	☐ Other:

After test of well yield, water was: ☒ Clear and sediment free ☐ Other, specify

Chlorinated ☒ Yes ☐ No

Construction Record

Inside diam (centimetres)	Material	Wall thickness (centimetres)	Depth From	Depth To (Metres)
Casing				
5.08	☒ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	.64	0	6.46
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam		Slot No.		
5.08	☒ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	6	6.46	7.69
No Casing or Screen				
	☐ Open hole			

Test of Well Yield

Pumping test method: GAS ENG.

	Draw Down Time (min)	Draw Down Water Level (Metres)	Recovery Time (min)	Recovery Water Level (Metres)
Static Level	4.31		5.23	
1	5.27	1	4.31	
2	5.27	2	4.31	
3	5.23	3	4.31	
4	✓	4		
5	✓	5	✓	
10		10		
15		15		
20		20		
25		25		
30		30		
40		40		
50		50		
60		60		

Pump intake set at (metres): 0
Pumping rate (litres/min): 90
Duration of pumping: 1 hrs + 0 min
Final water level end of pumping: 5.23 metres
Recommended pump type: ☒ Shallow ☐ Deep
Recommended pump depth: 1.23 metres
Recommended pump rate: 05 (litres/min)
If flowing give rate (litres/min):
If pumping discontinued, give reason:

Plugging and Sealing Record

☒ Annular space ☐ Abandonment

Depth set at - Metres From	To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0	4.31	QUICK GROUT	.15

Method of Construction

☒ Cable Tool ☐ Rotary (air) ☐ Diamond ☐ Digging
☐ Rotary (conventional) ☐ Air percussion ☐ Jetting ☐ Other
☐ Rotary (reverse) ☐ Boring ☐ Driving

Water Use

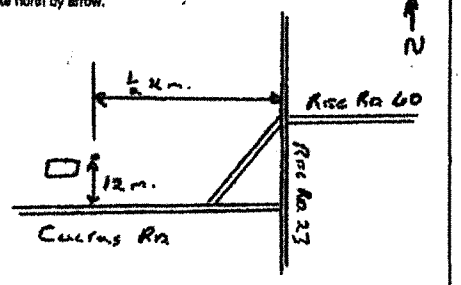
☒ Domestic ☐ Industrial ☐ Public Supply ☐ Other
☐ Stock ☐ Commercial ☐ Not used
☐ Irrigation ☐ Municipal ☐ Cooling & air conditioning

Final Status of Well

☒ Water Supply ☐ Recharge well ☐ Unfinished ☐ Abandoned, (Other)
☐ Observation well ☐ Abandoned, insufficient supply ☐ Dewatering
☐ Test Hole ☐ Abandoned, poor quality ☐ Replacement well

Location of Well

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



Audit No. Z 27045
Date Well Completed: 2006 11 07
Was the well owner's information package delivered? ☐ Yes ☐ No
Date Delivered: 2006 11 07

Well Contractor/Technician Information

Name of Well Contractor: VanKessel Waterwells
Well Contractor's Licence No.: 7193
Business Address (street name, number, city etc.): P.O. Box 640 Simcoe ON N3Y 4T2
Name of Well Technician (last name, first name): VANKESSEL MARK
Well Technician's Licence No.: T-528
Signature of Technician/Contractor: X
Date Submitted: YYYY MM DD

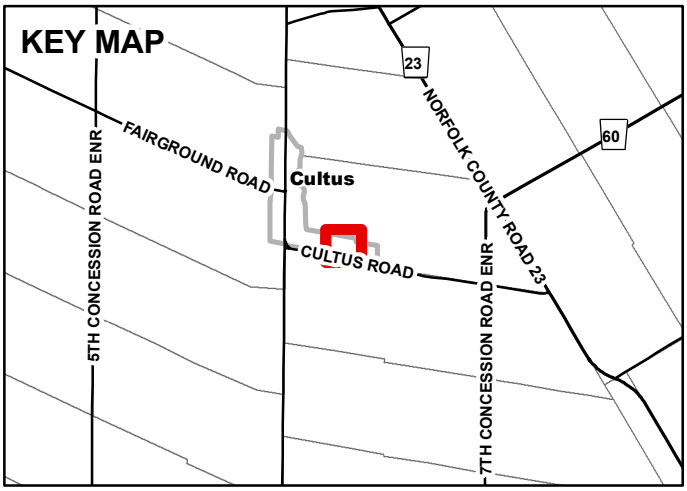
Ministry Use Only

Data Source: RECEIVED
Contractor: 7193
Date Received: JAN 05 2007
Date of Inspection:
Remarks:
Well Record Number:

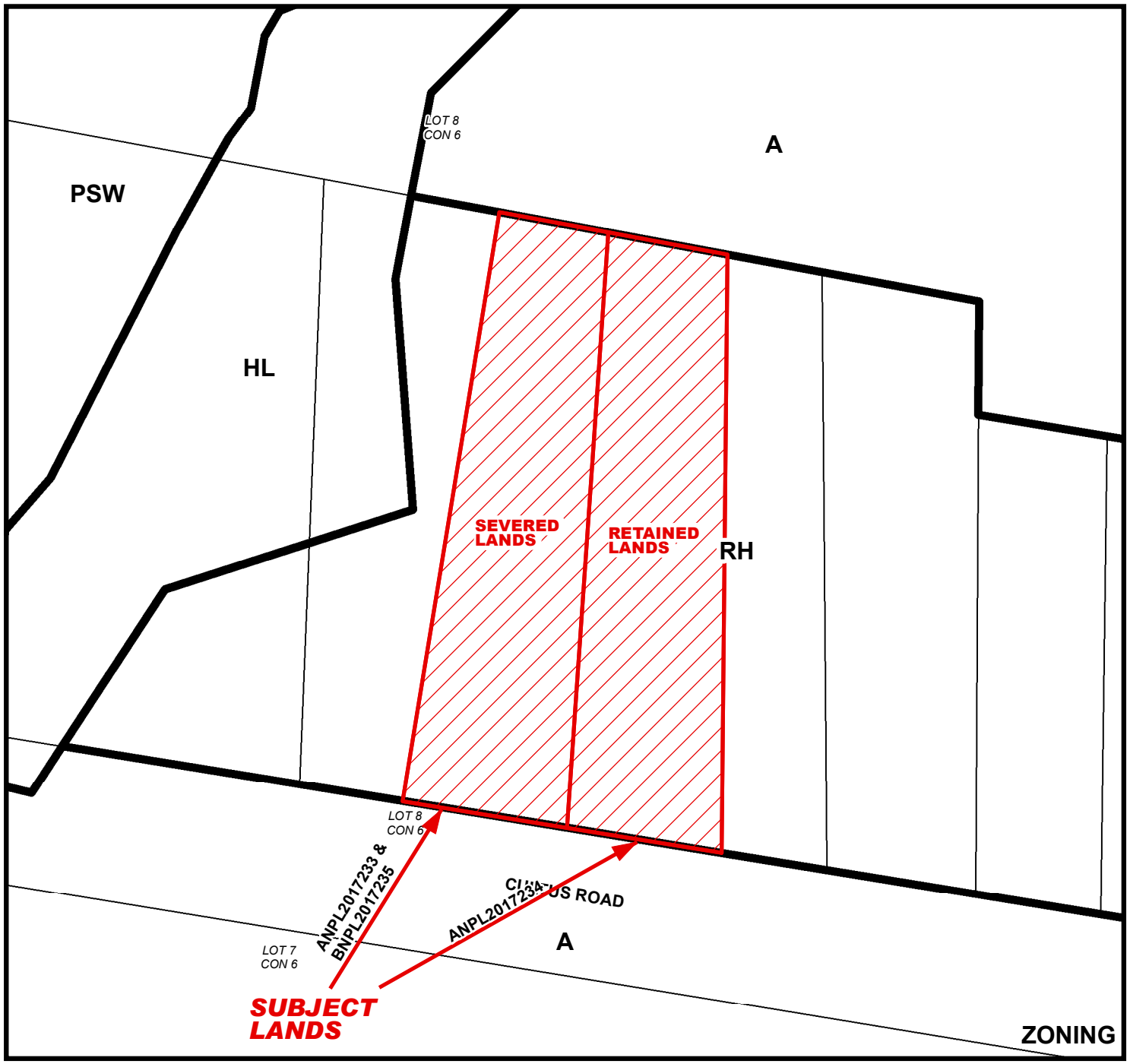
0506E (09/03) Contractor's Copy ☐ Ministry's Copy ☐ Well Owner's Copy ☐ *Cette formule est disponible en français*

MAP 1
File Number: ANPL2017233 BNPL2017235 & ANPL2017234

Geographic Township of
HOUGHTON



N
W E
S
1:1,200
9.54.75 0 9.5 19 28.5 38 Meters



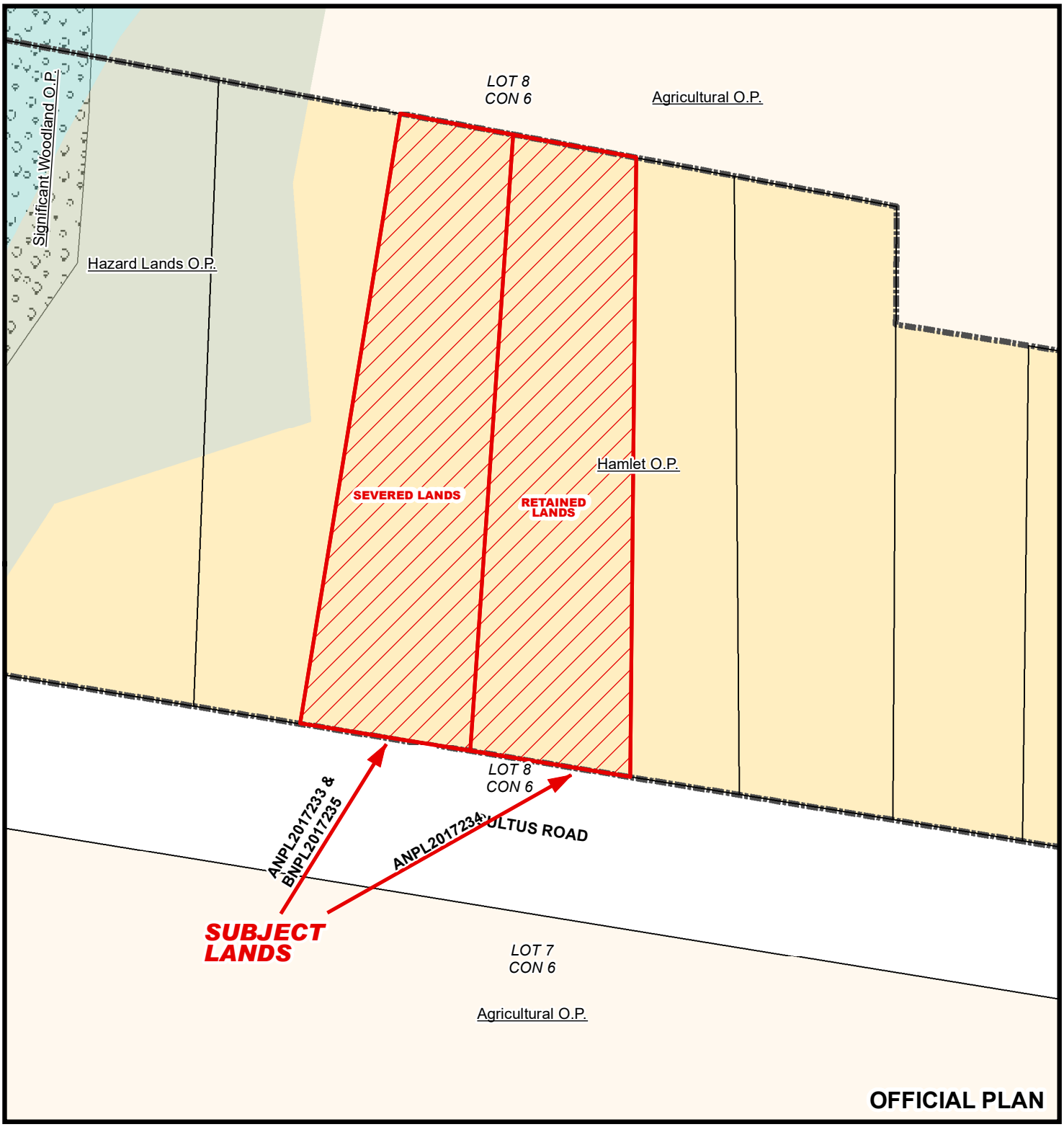
2017-11-07

MAP 2
File Number: ANPL2017233, BNPL2017235 & ANPL2017234
Geographic Township of HOUGHTON

N
W E
S

4.5 2.250 4.5 9 13.5 18
Meters

1:1,100



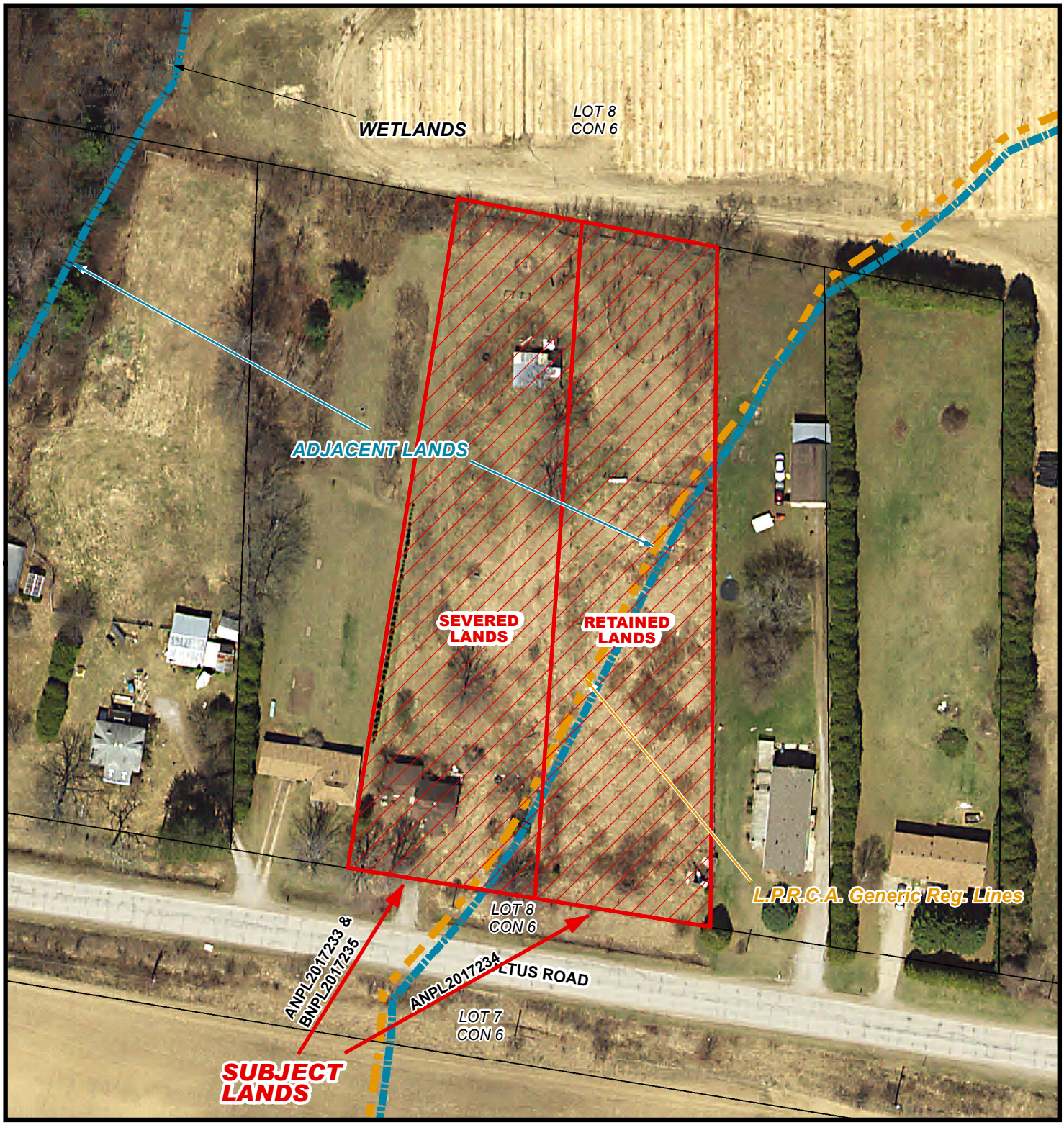
2017-11-07

MAP 3
File Number: ANPL2017233, BNPL2017235 & ANPL2017234
Geographic Township of HOUGHTON

N
W E
S

4 2 0 4 8 12 16
Meters

1:1,000



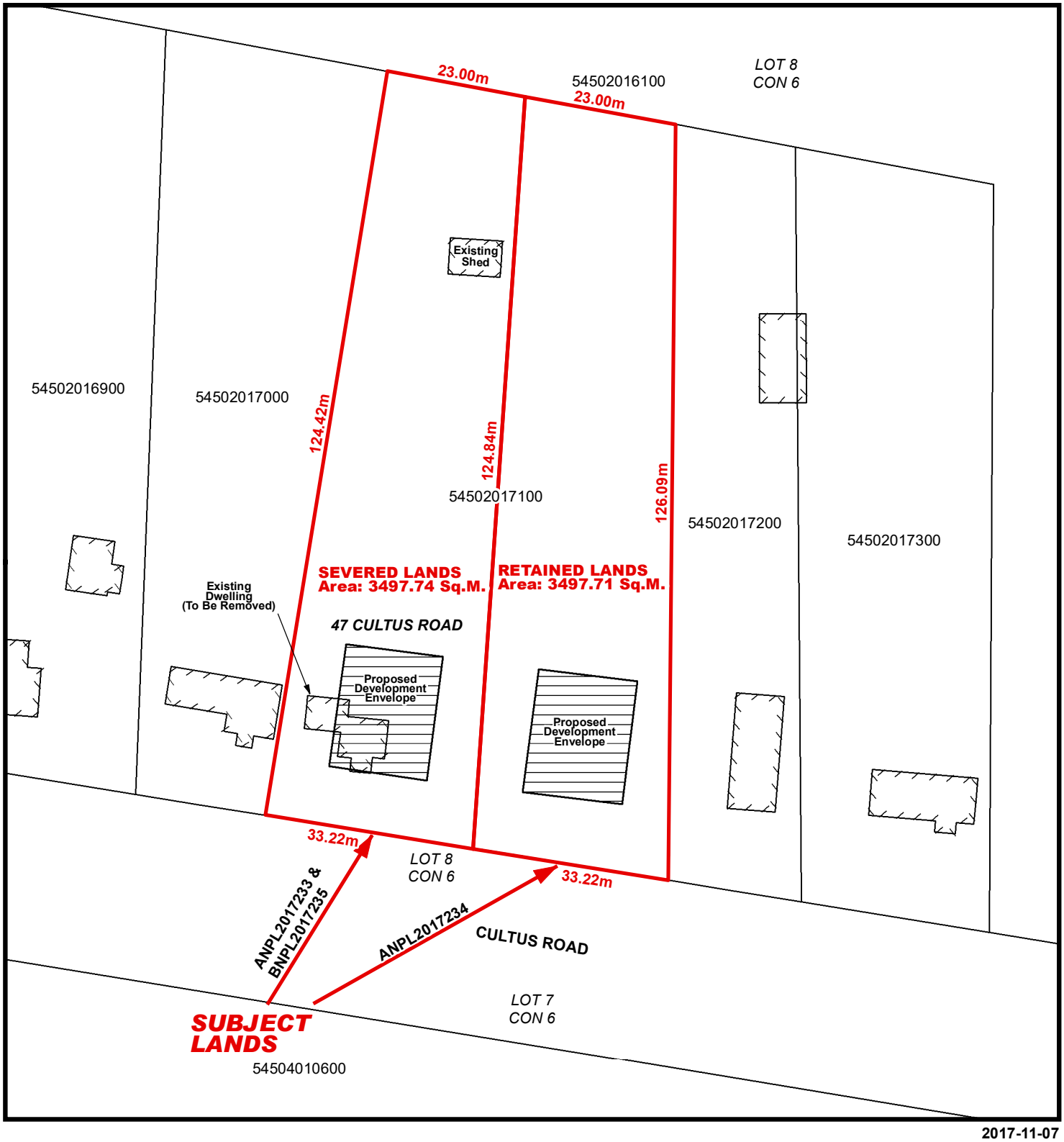
2017-11-07

MAP 4
File Number: ANPL2017233, BNPL2017235 & ANPL2017234
Geographic Township of HOUGHTON

N
W E
S

3.5 0 3.5 7 10.5 14 Meters

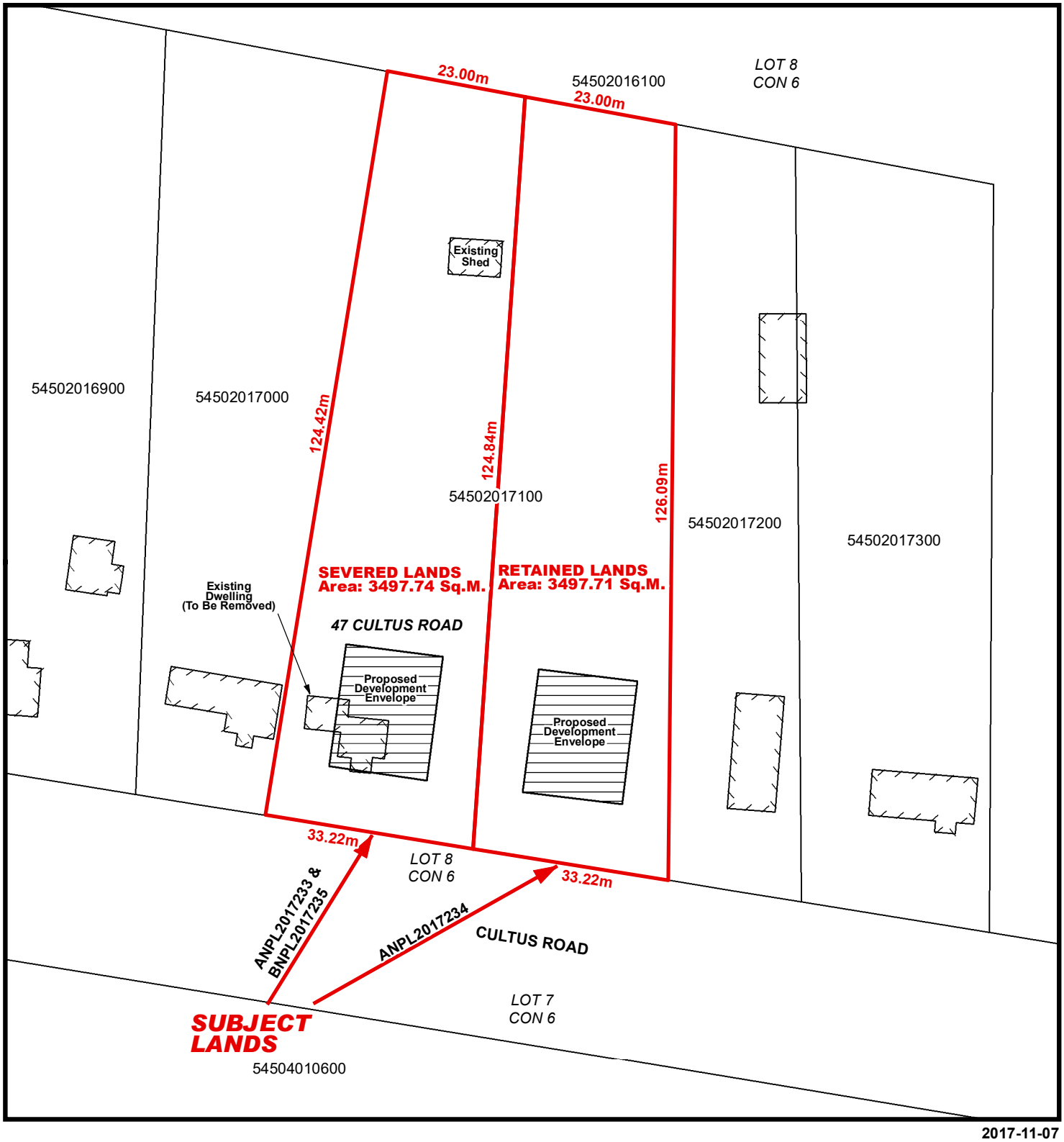
1:900



2017-11-07

LOCATION OF LANDS AFFECTED
File Number: ANPL2017233, BNPL2017235 & ANPL2017234
Geographic Township of HOUGHTON

N
W E
S
3.5 0 3.5 7 10.5 14
Meters
1:900



2017-11-07