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PRELIMINARY SCOPED HYDROGEOLOGICAL ASSESSMENT

Proposed Subdivision – Stage 1

1949 Gerber Road, Township of Wellesley, Ontario

SUBMITTED TO:

James Gies Construction Ltd. c/o Meritech Engineering
1305 Bishop St. North, Suite 202
Cambridge, ON
N1R 6Z

ATTENTION:

Mr. Alexander Orakwue

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1.0 INTRODUCTION

Chung & Vander Doelen Engineering Ltd. (CVD) has been retained by James Gies Construction Ltd. c/o Meritech Engineering (the “Client”) to provide hydrogeological consultation services in support of a proposed subdivision development (the “Project”) on the subject lands located at 1949 Gerber Road, Township of Wellesley, Ontario (the “Property” or “Site”), as shown in Figure 1 (Appendix C).

It is understood that the proposed subdivision will be developed in two stages: Stage 1 and Stage 2. This report will specifically address the details of Stage 1 which encompasses the western portion of the subject lands that are currently located within the “urban area boundary” of the Town of Wellesley.

The development is planned to consist of a residential area (Blocks 1 to 5), a park (Block 7), a commercial area (6), and a stormwater management (SWM) facility (Block 8). It is understood that the development will be fully municipally serviced with water and wastewater infrastructure. The overall grading of the Stage 1 development is shown in the Overall Grading and Servicing Concept Plan (Meritech Engineering, May 22, 2026), included in Appendix B.

It should be noted that as of the writing of this report, CVD’s 2-year long groundwater monitoring period is still on-going and only in its early stages. As such, any conclusions and/or recommendations should be viewed as preliminary in nature and subject to change as more information is gathered and the development progresses. Furthermore, It should be noted that the specific construction details of each block (i.e., building specifications and finished floor elevations) were not provided at the time of writing this report. Thus, any recommendations related to potential temporary construction dewatering and the construction of infiltration features will be general and will need to be revisited at the detailed design stage of the development once block specific details are available and finalized. Moreover, should any changes to design be made as the project progresses, CVD should be notified, and the conclusions reached in this report updated.

The purpose of this Scoped Hydrogeological Assessment is to provide a preliminary evaluation of existing hydrogeological conditions at the Site in support of the proposed development, and as such, the overall objectives of the hydrogeological investigation are as follows:

- Provide a desktop characterization of the overall hydrogeologic setting using both publicly available sources and information collected during the field investigation, with primary emphasis on the near surface hydrogeologic setting.
- Provide an interpretation of the shallow groundwater flow patterns and horizontal water table contours, as well as a general assessment of the water table zone characteristics.
- Evaluate potential groundwater control needs to support construction and assess potential impacts of dewatering.
- Assess potential impacts and/or interference from the development to the source water protection setting and any surrounding water supply wells. This includes completing a desktop well inventory of properties within a 500-metre radius of the Site.
- Comment on potential Low Impact Development (LID) mitigation measures and assess potential impacts arising from infiltrating stormwater runoff into the site’s soils (e.g. groundwater mounding).

Once again, given that this investigation is still in its early stages, not all of the objectives outlined above may be achieved at this time. Any outstanding objectives will be addressed in subsequent updates to this report. This report is intended to be read alongside CVD’s Preliminary Geotechnical Investigation Report, dated August 26,



2026, which provides a more in-depth analysis of the underlying soil conditions and constructability of the Site.

2.0 FIELD INVESTIGATION

2.1 Borehole Drilling & Monitoring Well Installation

As part of the initial field investigation completed by CVD, ten (10) boreholes, identified as Boreholes 1 to 10, were advanced to depths between 4.55 and 8.25 m below ground surface (mbgs) between July 2 and 3, 2026. Five (5) monitoring wells were installed beside Boreholes 2, 4, 5, 7, and 9 (wells labelled BH 2, 4, 5, 7, and 9). All borehole/monitoring well locations are illustrated on the Borehole & Monitoring Well Location Plan, Figure 4 (see Appendix C).

The fieldwork was carried out under the supervision of a member of our engineering team, who logged the boreholes, collected subsurface soil samples, and monitored the groundwater conditions. All CVD monitoring well / borehole logs are included on Enclosures 1 to 10, included in Appendix E.

The boreholes were advanced using a track-mounted CME-55 drill rig, equipped both with standard 152 mm outer diameter solid stem augers (SSA) and with standard 108 mm inner diameter hollow stem augers (HSA) operated by Direct Environmental Drilling (DED) of St. Thomas, Ontario. The monitoring wells were constructed using 50 mm diameter PVC riser pipes and screen sections. Stick-up Monument metal protective casings were used to house the wells. Details for well construction are described on the borehole logs. All the monitoring wells were installed in accordance with O. Reg. 903 by a licensed water well contractor, and a record for the well installation was filed with the Ontario Ministry of the Environment, Conservation and Parks (MECP).

The borehole and monitoring well locations and associated ground surface elevations were surveyed by CVD for the purpose of this report using a Network RTK Global Navigation Satellite System (GNSS) Receiver. The survey data was collected using The UTM Zone 17N Projection, NAD83(CSRS)v7-2010 datum and Canada Geoid Model HT2_2010v70 (CGVD28).

2.2 Well Development and Water Level Monitoring

All five (5) monitoring wells were developed using Waterra™ polyethylene tubing and foot-valve hand pumps to remove sand, silt, and construction mud introduced into the monitoring wells during installation.

As of the writing of this report, groundwater level monitoring was performed only on one (1) occasion, July 9, 2026. Groundwater monitoring is currently ongoing as part of the 2-year monitoring period. Table 1 (Appendix C) provides a summary of the groundwater levels and calculated elevations for each monitoring event.

To provide a more comprehensive summary of groundwater conditions at the Site, five (5) Van Essen DI801 10 m TD-Diver automated data loggers and one (1) Baro-Diver were installed at each monitoring well location. The data loggers provide continuous measurements (1-hour intervals) during the entire water table monitoring period. The purpose of the Baro-Diver was to compensate for atmospheric noise and pressure at the ground surface. The automated monitoring at the wells using the data loggers is currently ongoing.

Furthermore, four (4) grain size distribution analysis plots, which are presented in Enclosures 11 to 14, were carried



out following the field investigation on representative subsoil samples to help assist in providing estimates of hydraulic conductivities (K) for the native subsoil deposits.

Single well response tests (SWRTs) will be completed at each monitoring well at a later date, and the results will be addressed in a future revision to this report.

3.0 SITE SETTING AND CHARACTERIZATION

3.1 Site Location

As shown on Figure 1, the 13.1 ha Stage 1 lands, which are part of the overall larger 39.7 ha property, are located near the eastern boundary of the Township of Wellesley. The property is located directly northeast of the intersection of Greenwood Hill Road and Gerber Road. The subject lands are currently undeveloped and are comprised of agricultural farmland. The Site is surrounded by agricultural lands to the north, south, and east, and by residential areas of Wellesley to the west.

Topographically, elevations across the Site typically increase in elevation from south to north with elevations varying from 355± to 367± mASL. The ground surface elevations at the borehole locations ranged between 355.88 and 364.94 mASL. The topography of the Site and surrounding area may be described as rolling land.

3.2 Nearby Natural Heritage Features

The property is located 60± m north of the Nith River, and multiple small streams associated with the river are found directly south of the property. Other nearby surface water features include Firella Creek, located 700± m west of the site, Campell Drain located 800± m northwest of the property, and an unidentified stream located 500± m north of the subject lands. These watercourses are identified on Figure 1.

No conservation areas, forests, or wetlands were identified within 500 m of the property.

3.3 Geological Conditions

According to publicly available geological mapping from the Ontario Geological Survey (2010) (MRD228), the Site is located within the Stratford Till Plain physiographic region, near the boundary with the Waterloo Hills region. The Stratford Till Plain is predominantly characterized by Tavistock Till. As shown on Figure 2 which presents the Quaternary geology of the Site (MRD128Rev), the property is underlain by glaciolacustrine silty to clayey till, likely corresponding to either the Tavistock Till or Maryhill Till units. Areas containing alluvial deposits, associated with the Nith River, can be found directly south of the Site.

Based on information gathered from CVD's Stage 1 preliminary geotechnical investigation, the surficial topsoil and reworked fill (native material tilled by previous agricultural activities) extend to depths between 0.60 to 0.95 mbgs. Following the fill layer, the Site is predominantly underlain by silty clay deposits with occasional sand seams, which extend to at least 8.25 mbgs, the maximum depth explored during the investigation. These silty clay deposits likely correspond to the Tavistock Till or Maryhill Till deposits. A 1.70 to 2.10 m thick layer of silt till with occasional clayey seams was encountered within the silty clay deposit in Boreholes 7 and 9. Overall, the subsoils encountered during the filed investigation closely align with the geology presented in the publicly available mapping.



Paleozoic geological mapping (MRD219) shows that the property is located within the Bass Islands Formation of the Upper Silurian Epoch (Armstrong and Carter, 2006). The bedrock in this area is comprised of dark brown to light grey-tan dolostone.

3.4 Regional Hydrogeologic Setting

According to the Region of Waterloo's Tier 3 study under the Clean Water Act (Matrix Solutions Inc., 2014), four (4) notable regional hydrostratigraphic units were identified and characterized as follows:

- **Unit 1 – Clay:** Brown to grey clay encountered at depths from 0± to 9± mbgs and corresponding to the Tavistock Till (geologic unit ATB1, as characterized by the Ontario Geological Survey) and/or the Lower Maryhill Till (ATB3).
- **Unit 2 – Gravelly Clay:** A clay encountered at depths from 9± to 31± mbgs and likely corresponding to the Catfish Creek Till (ATC1/ATC2).
- **Unit 3 – Clayey Sand and Gravel:** A clayey sand and gravel deposit encountered at depths from 31± to 52± mbgs, which was interpreted as the Pre-Catfish Outwash confined aquifer unit (AFD1).
- **Unit 4 – Bedrock:** Dolostone bedrock of the Bass Island Formation encountered generally at a depth of >50± mbgs.

It should be noted that these units are approximate and vary in both presence and thickness across the Region. As such, one or more units may not be present beneath the Site.

Based on the results of CVD's field investigation, it appears that the soils encountered during the study (depths up to 8.25 mbgs) correspond to the ATB1 or ATB3 (Tavistock Till / Maryhill Till) unit.

Regarding private water wells within the vicinity of the Site, as will be discussed in Section 4.1, it appears that most private water supply wells in the area are screened within either a deeper confined sand and gravel aquifer, which may correspond to the AFD1 unit, or in the bedrock aquifer (Unit 4).

3.5 Water Table Depth and Configuration

Based on the July 9, 2026, water level readings which were recorded at all existing on-Site monitoring wells, the water table was measured at depths varying from 0.98 to 2.80 mbgs, corresponding to elevations between 353.08 to 363.96 mASL. It should be noted that it is expected that peak spring groundwater levels will be noticeably higher than those measured during the July 2026 site visit. Due to the aquitard nature of the predominant silty clay soils, relatively large seasonal fluctuations are expected. The groundwater measurements for each monitoring well collected thus far for the investigation are summarized in Table 1.

As shown in Figure 5, the shallow groundwater flow direction generally follows local site topography, with groundwater flowing from the elevated northern portion of the property towards the lower-lying southern portion of the site. It should be noted that GRCA mapping identifies streams emanating from an area directly south of the site and flowing towards the Nith River, which further supports the interpreted groundwater flow direction.

Based on the groundwater contours shown in Figure 5, except for the low-lying area found in the south-central area of the Site, the horizontal gradient is estimated at 0.02± m/m.



Groundwater level monitoring is still ongoing as part of CVD's 2-year long investigation, and as such, the findings of this report will be updated once further groundwater data is collected.

3.6 Infiltration Potential of Native Soils

It is understood that low impact development (LID) features, to be determined at a later date, may be included at each block in order to help maintain on-Site water balance.

Infiltration features should be located below the footing drain/weeper of any buildings and should be located at least 5 m away from any proposed building footprints. Additionally, the infiltration features should have the base located at least 1.0 m above the groundwater table.

In order to assess the infiltration potential of on-Site native soils, CVD completed three (3) grain size distribution analyses (GSA) on the predominant silty clay subsoils which, based on the widely spaced boreholes, appear to extend across the majority of the Site. Using the D_{10} value of the grain size distributions, the hydraulic permeability and associated infiltration rates were estimated. SWRTs are also planned to be completed at each well at a later date, and the estimated permeability of the deposit will be updated once the results are finalized.

Based on both CVD testing, it is estimated that the hydraulic conductivity and subsequent factored infiltration rate of the native on-Site soils are as follows:

Material	Permeability (K) (cm/s)	Factored Infiltration Rate (mm/hr)	Completed Tests
Silty Clay	$< 1 \times 10^{-6}$	<5	GSA (Encl. 11 to 13)

Considering the above information and based on the estimated very low permeability of the predominant silty clay soils, it may be difficult to implement traditional infiltration galleries. As the project progresses and details for each block are made available, alternative methods to compensate for post-development loss in infiltration may be discussed.

It is also understood that the proposed subdivision will be serviced by a SWM facility in Block 8 as shown in the Overall Grading and Servicing Concept Plan (Appendix B, Meritech Engineering, May 22, 2026) and as described in Meritech's Preliminary Servicing & SWM Report, dated May 2026. Based on review of the current development plans, it is understood that the wet pond bottom will be founded at 354.70 mASL and the outer edge of the SWM facility will be situated at 359.10 mASL. The permanent pool elevation is proposed at 356.70 mASL, and the pond bottom area is planned to be 7,050 m².

Based on the July 2026 groundwater measurements, as shown in Figure 5, which should be considered as being relatively low in comparison to potential peak groundwater elevations, the water table around the proposed SWM facility ranges from approximately 354± to 361± mASL, from southwest to northeast across the area. As such, the water table will intersect the SWM area and will generally be above the proposed permanent pool elevation.

Any potential impacts (e.g., groundwater mounding) arising from infiltration of stormwater into the native underlying hydraulically tight silty clay soils may be addressed at a later date once more groundwater data is



collected, seasonal variations are better understood, and once detailed design plans are available.

3.7 Potential Temporary Construction Dewatering Activities

Based on the estimated very low hydraulic conductivity (1×10^{-6} cm/s) of the silty clay subsoils which underly most of the Site and considering that peak groundwater elevations were measured to range from 0.98 to 2.80 mbgs, corresponding to elevations between 353.08 to 363.96 mASL, some amount of temporary construction dewatering may potentially be required depending on final design; however, any such needs can be likely be accomplished using traditional filtered sump pumping techniques and intercept ditches.

Notwithstanding the possibility of potential pockets of higher conductive materials, it is possible that the total quantity of pumped groundwater for temporary construction dewatering needs may be controlled at rates of less than 50,000 L/day with a zone of influence (ZOI) of less than 10 m, and, as such, an Environment and Sector Registry (EASR) for temporary construction dewatering may not be required. However, this will depend on the construction details (i.e., basements, grading, etc.) and size of excavations for each lot, and as such, once finalized Site design drawings with finished floor elevations are provided, a Qualified Professional will need to be retained to review these designs and provide an updated estimate.

Further assistance on this matter may be provided once detailed design plans are available.

4.0 DESKTOP PRIVATE WELL INVENTORY AND POTENTIAL INTERFERENCE STUDY

4.1 Desktop Private Well Inventory

CVD completed a desktop private well inventory study of all residences and addresses within a 500 m radius of the Site. Based on the review of Ontario Well Records, at least seventeen (17) potentially active drinking water wells were identified; however, it is likely that at least two of those private wells (Inventory #9 and 14) are abandoned. The purported locations of the identified wells are presented in Figure 6 and the associated well details are provided in Table 2, both included in Appendix C. All collected well records from the MECP database are also included in Appendix D.

Based on these well records, thirteen (13) of the private supply wells were screened within a confined sand and gravel aquifer with screened depths ranging between 35± to 66± mbgs. The remaining four (4) (Inventory #4, 5, 13, and 15) were screened in a bedrock aquifer, identified in the records as limestone (dolostone) and shale, at depths ranging between 58± and 94± mbgs.

It should be noted the location of many of the retrieved well records could not be specifically pinpointed to one property, and as such, their exact ownership is not specified. Nonetheless, no evidence for shallow wells that may potentially be adversely impacted by the proposed development were identified.

4.2 Source Water Protection

The Grand River Source Protection Plan (updated February 2022) has established four Wellhead Protection Areas (A, B, C & D) in the Region of Waterloo; WHPA-A for the immediate 100-m zone around each municipal well and WHPA-B to D based on modelled groundwater ‘times of travel’ to each well (or wellfield), varying between 2, 5, and 25-



years, respectively. In addition, relative groundwater ‘vulnerability’ to contamination scores (on an increasing scale from 1 to 10) have been established for all lands within the WHPAs.

According to data provided on the GRCA-Web GIS application (see Figure 3), the Site is located outside of any WHPAs. The nearest municipal wells, wells WY1, WY5 and WY6, are located in the centre of the Township of Wellesley, approximately 1.1 km west of the Site.

The Site is also neither located within a Tier 2 significant groundwater recharge area nor within a WHPA for Quantity zone. As such, no issues relating to source water protection are expected.

4.3 Drinking Water Threat Assessment

It is understood that the Stage 1 development will be primarily comprised of residential blocks along with a commercial block. It is also understood that the development will be fully municipally serviced with water and wastewater services as well as a SWM block (Block 8). Consequently, in terms of potential post-development activities which may pose as a drinking water threat as defined per Section 1.1 of O.Reg. 287/07 under the Clean Water Act (as amended), the only anticipated threat is as follows:

1. The application of road salt (potential contaminants include chloride, sodium)

Based on the proposed use of the development, it is not anticipated that the above activity will have a significant impact on the underlying aquifer. Furthermore, based on the limited developmental information available at the time of writing this report, it is not expected that any excavations relating to the project will exceed 4 meters in depth. Considering that the highest founding depth of nearby wells was situated at 35 mbgs, significant vertical hydraulic separation exists between the unconfined water table aquifer at the Site and the deeper confined sand and gravel aquifer supplying the surrounding water wells. As such, no issues relating to well interference are anticipated.

4.4 Assessment of Potential Well Interference

Temporary Construction Dewatering

More detailed recommendations may be provided in relation to potential construction dewatering needs once specific design details (i.e., finished floor elevations, footprints, presence or absence of underground levels) are provided; however, based on preliminary findings, any required temporary construction dewatering is expected to be minimal, and as such, is not expected to have any notable impact to either water supply of any existing nearby private water supply wells or to any of the surface water bodies listed in Section 3.2.



5.0 CONCLUSIONS

Based on the findings of this preliminary scoped hydrogeological assessment, the following conclusions can be made:

- 1) Native on-site soils are predominantly comprised of silty clay soils, which likely correspond to the ATB1 or ATB3 unit (Tavistock Till / Maryhill Till). These soils extend up to at least 8.25 mbgs and are estimated to have a very low hydraulic permeability of less than 1×10^{-6} cm/s.
- 2) Based on CVD's initial groundwater measurements completed in July 2026, groundwater levels range from 0.98 to 2.80 mbgs, corresponding to elevations between 353.08 to 363.96 mASL; however, these water levels should be considered as being relatively low in comparison to potential peak groundwater elevations. The shallow groundwater flow direction generally follows local Site topography, with groundwater flowing from the elevated northern portion of the property towards the lower-lying southern portion of the site. Further groundwater monitoring is required to provide a detailed characterization of the hydrogeological setting of the Site.
- 3) The Site is located outside of any WHPA for municipal wells and outside of any significant groundwater recharge areas. Furthermore, all nearby natural heritage features are outside of the excepted potential zone of influence of any on-Site activities. B
- 4) Based on the desktop private well inventory, all nearby potentially active private supply wells are screened either within a confined sand and gravel aquifer at depths ranging between 35± to 66± mbgs or screened in a bedrock aquifer, at depths ranging between 58± and 94± mbgs. As such, significant vertical hydraulic separation exists between the on-Site unconfined aquifer and the underlying water supply aquifers.
- 5) Groundwater monitoring is currently ongoing as part of CVD's 2-year monitoring program, and the findings in this report will be updated once further groundwater data is available.
- 6) Once detailed design plans for each lot are available, CVD should be retained to assess the design and update the conclusions presented in this report.



6.0 CLOSING

This Preliminary Scoped Hydrogeological Assessment report has been prepared for the exclusive use of the Client and their assigns for specific application to this project property.

The assessment was conducted in accordance with the verbal and written requests from the Client and generally accepted assessment practices. Performance of this assessment is intended to reduce, but not eliminate, uncertainty regarding the hydrogeological conditions encountered at the project Site, given reasonable limits of time and cost. No other warranty, expressed or implied, is made.

We trust this report is sufficient for your immediate requirements. If you have any questions, please do not hesitate to contact the undersigned.

Respectfully submitted,
CHUNG & VANDER DOELEN ENGINEERING LTD.



Yaroslav Chudin, P. Eng
Project Engineer & Hydrogeologist



Digitally signed by Peter
Dao
Date: 2026.09.14 13:58:3
0:05:00

Peter Dao, M.Sc., P.Geo.
Manager, Environmental & Hydrogeology



7.0 REFERENCES

The following documents, maps, and other publications have been used in the preparation of this report:

- Armstrong, D.K. and Carter, T.R., “An Updated Guide to the Subsurface Paleozoic Stratigraphy of Southern Ontario,” Ontario Geological Survey Open File Report 6191 (2006)
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- QGIS.org, “QGIS Geographic Information System,” QGIS Association. <http://www.qgis.org>. (Retrieved September 2026)



APPENDIX A

Hydrogeological Limitations of Report



STATEMENT OF LIMITATIONS

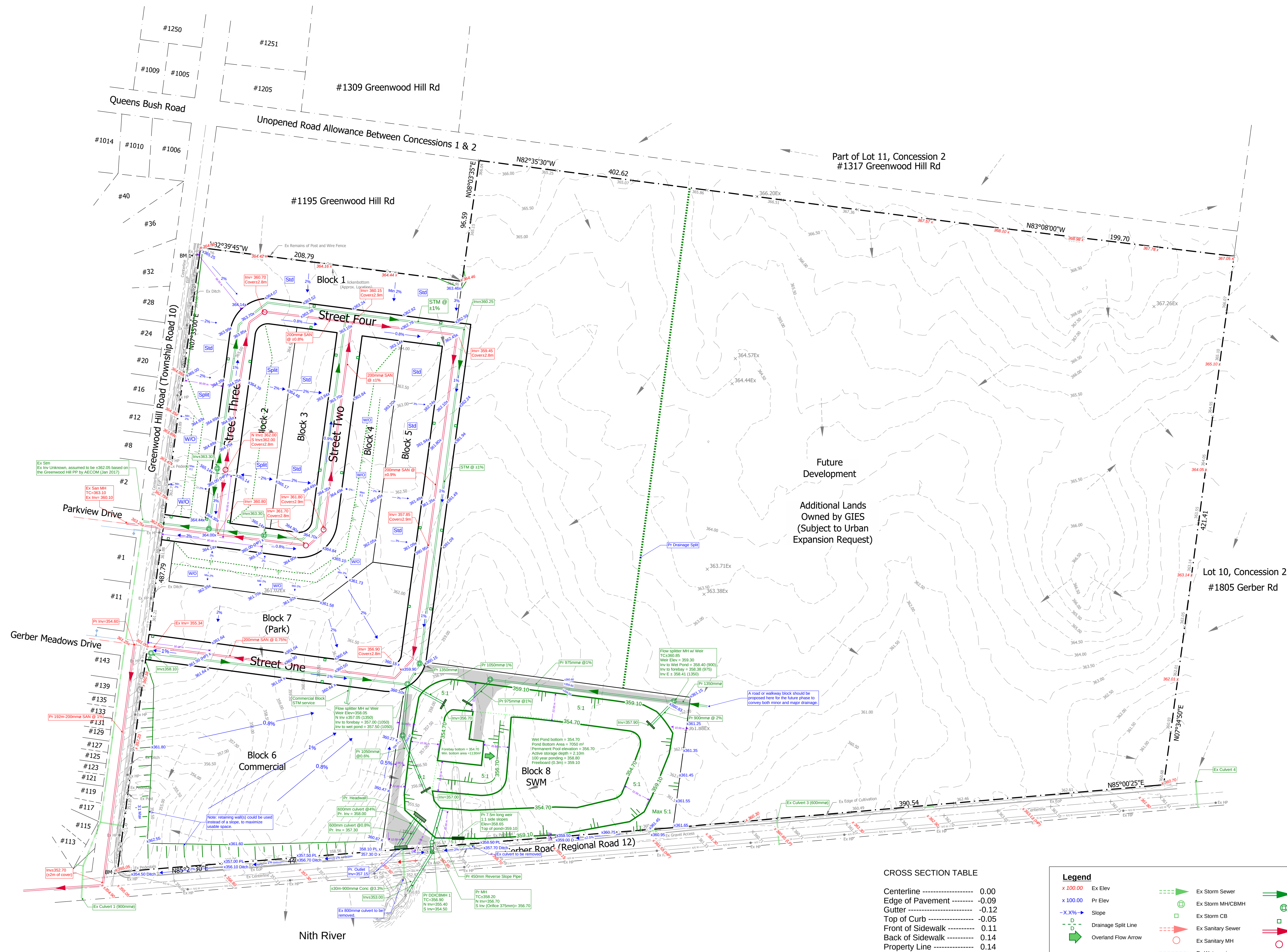
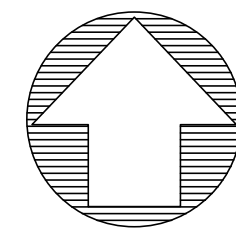
1. The work performed in this report was carried out in accordance with the Standard Terms of Conditions made part of our contract. The conclusions presented herein are based solely upon the scope of services and time and budgetary limitations described in our contract.
2. The report has been prepared in accordance with generally accepted hydrogeological study and/or engineering practices. No other warranties, either expressed or implied, are made as to the professional services provided under the terms of our contract and included in this report.
3. The services performed and outlined in this report were based, in part, upon visual observations of the site and attendant structures. Our opinion cannot be extended to portions of the site which were unavailable for direct observation, reasonably beyond the control of CHUNG & VANDER DOELEN ENGINEERING LTD.
4. The objective of this report was to assess hydrogeological conditions at the site, within the context of our contract and hydrogeological assessment guidelines within the applicable jurisdiction. Evaluating compliance of past or future owners with applicable local, provincial and federal government laws and regulations was not included in our contract for services.
5. CHUNG & VANDER DOELEN ENGINEERING LTD. has relied in good faith on information and services provided by others while conducting the record search. We accept no responsibility for any deficiency, misstatements or inaccuracies contained in this report as a result of omission, misinterpretation or fraudulent acts of the services used.
6. It should be noted that the observations and recommendations presented in this report are limited to the actual locations explored. The information presented in terms of the thickness and types of the subsoils encountered, groundwater levels, and chemical testing results, etc., are only applicable to the actual locations explored. Variations may be present between these locations. Should significant variation become apparent during later investigations, it may be necessary to reevaluate the findings of this report.
7. The conclusions of this report are based in part, on the information provided by others. The possibility remains that unexpected environmental conditions may be encountered at the site in locations not specifically investigated. Should such an event occur, CHUNG & VANDER DOELEN ENGINEERING LTD. must be notified in order that we may determine if modifications to our conclusions are necessary.



APPENDIX B

Select Design Drawings





CROSS SECTION TABLE

Centerline	0.00
Edge of Pavement	-0.09
Gutter	-0.12
Top of Curb	-0.05
Front of Sidewalk	0.11
Back of Sidewalk	0.14
Property Line	0.14

Mountable Curb 600.100

Legend			
x 100.00	Ex Elev	Ex Storm Sewer	Pr Storm Sewer
x 100.00	Pr Elev	Ex Storm MH/CBMH	Pr Storm MH/CBMH
-X.X%-	Slope	Ex Storm CB	Pr Storm CB
---D---	Drainage Split Line	Ex Sanitary Sewer	Pr Sanitary Sewer
---D---	Overland Flow Arrow	Ex Sanitary MH	Pr Sanitary MH
---		Ex Watermain	Pr Watermain
---			Pr Hydrant

Overall Grading and Servicing Concept Plan
1949 Gerber Road

Drawn By: JP	Checked By: CHT	Scale: 1:1500	CP
File Name: 4999.DPA	Date: May 22, 2026		

Project: C:\Projects\Engineering\1949 Gerber Road\1949 Gerber Road.dwg, Project: May 19, 2026 by: J. J. J.

APPENDIX C

Tables and Figures



Table 1 - Summary of Water Levels, Elevations & Fluctuations

1949 Gerber Road, Township of Wellesley
CVD Engineering Ltd.
Project: 3211H

Monitoring Well	Ground Elevation (mASL)	Top Pipe Elevation (mASL)	Stickup (m)	Water Level (mbgs)	Water Elevation (mASL)
				09-Jul-26	09-Jul-26
BH 2	355.88	356.66	0.78	2.80	353.08
BH 4	361.82	362.60	0.77	1.00	360.82
BH 5	360.44	361.28	0.84	1.71	358.73
BH 7	362.34	363.15	0.81	0.99	361.36
BH 9	364.94	365.75	0.81	0.98	363.96

- Notes:
- 1) All Elevations Referenced to Geodetic Survey by CVD.

2) **Bolded** elevations represent the maximum water table aquifer elevation manually measured at each monit throughout all seasons.

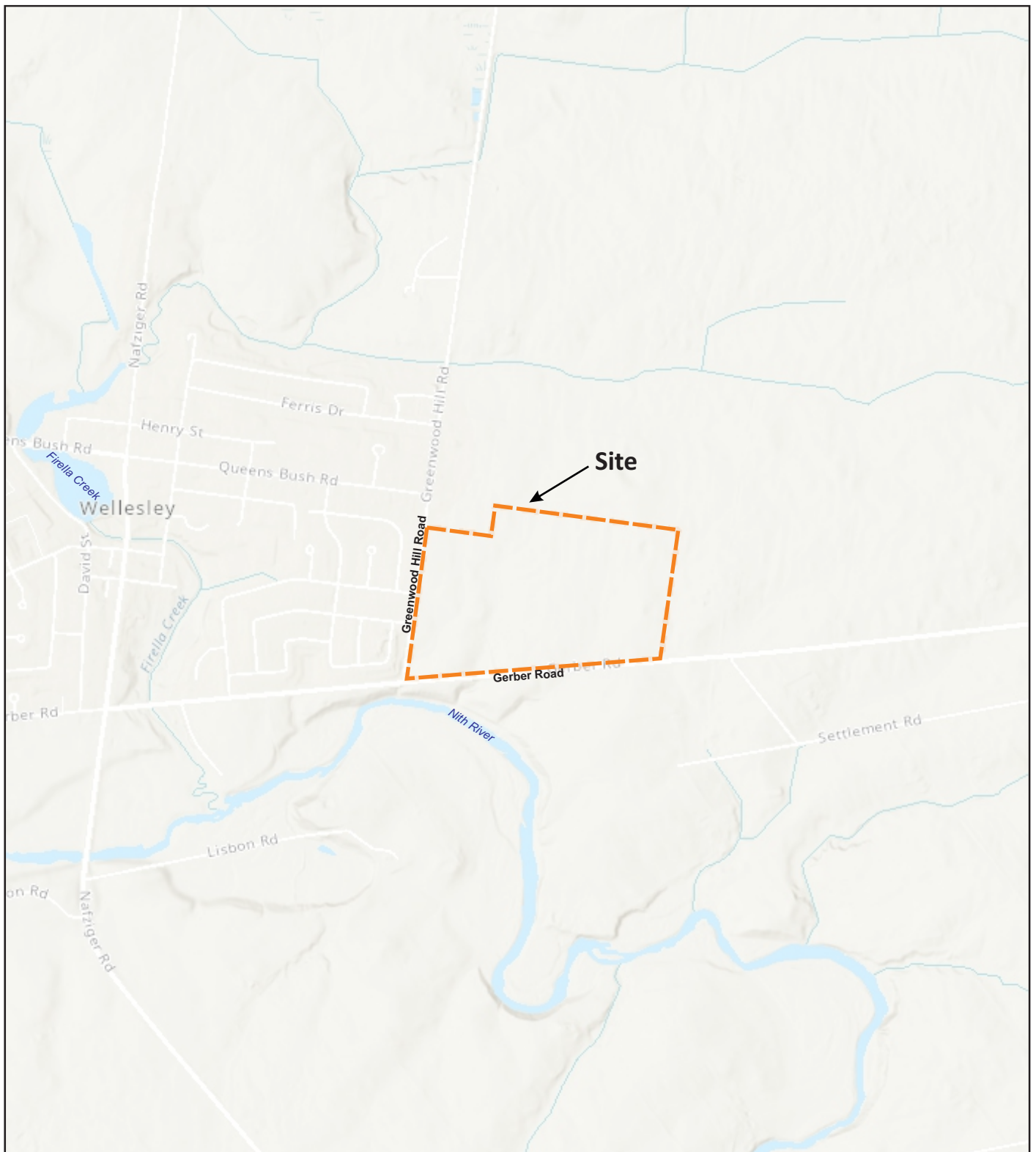
3) Negative water level indicates that water level is above ground.

4) : Monitoring well dry.

5) Negative fluctuation indicates drop in water level relative to baseline.

6) : Water level not stabilized.

Possible/Approximate Property Address	Inventory Number	Potential MECP Well Record (WR) #	Date	Probable Well Type	Static		Well Depth		Aquifer Material	Comments
					ft	m	ft	m		
145 Brown Street	1	6504526	1976-10-22	Drilled	24.9	7.6	196.9	60.0	Gravel	
13 Campbell Place	2	6505685	1985-05-17	Drilled	44.9	13.7	214.9	65.5	Gravel	
3 Ferris Drive	3	6505001	1979-09-28	Drilled	35.1	10.7	202.1	61.6	Sand	
1062 Gerber Road	4	6508310	1998-11-03	Drilled	6.9	2.1	190.9	58.2	Bedrock (Limestone)	
1725 Gerber Road	5	6503530	1971-10-23	Drilled	38.1	11.6	290.0	88.4	Bedrock (Shale)	
1725 Gerber Road	6	6501890	1959-11-26	Drilled	38.1	11.6	128.0	39.0	Sand and Gravel	
1805 Gerber Road	7	6501889	1955-07-27	Drilled	49.9	15.2	232.0	70.7	Gravel	
1805 Gerber Road	8	7289423	2017-05-31	Drilled	41.0	12.5	115.2	35.1		
1949 Gerber Road	9	6503037	1969-06-18	Drilled	20.0	6.1	210.0	64.0	Gravel	Not observed during Site visit
1309 Greenwood Hill Rad	10	6506204	1987-05-15	Drilled	35.1	10.7	200.1	61.0	Gravel	
1317 Greenwood Hill Road	11	7374387	2020-10-30	Drilled	44.9	13.7	209.0	63.7		
1059 Queens Bush Road	12	6501893	1966-02-11	Drilled	40.0	12.2	214.9	65.5	Sand and Gravel	
1296 Settlement Road	13	6503066	1969-07-21	Drilled	12.1	3.7	308.1	93.9	Fractured Bedrock	
67 Nithbank Road	14	6504324	1975-02-12	Drilled	24.9	7.6	155.8	47.5	Sand	Abandoned
1296 Settlement Road	15	6505037	1979-08-22	Drilled	27.9	8.5	301.8	92.0	Bedrock (Limestone and Shale)	
1059 Queens Bush Road	16	6505406	1982-11-09	Drilled	45.9	14.0	200.1	61.0	Sand and Gravel	
1025 Queens Bush Road	17	6505423	1983-01-13	Drilled	45.9	14.0	211.9	64.6	Gravel	



LEGEND



Subject Development Property



0 m 300 600
Scale 1:18,000

Figure 1 - Site Location

Scoped Hydrogeological Assessment
Proposed Subdivision

1949 Gerber Road
Township of Wellesley, ON

Drawn By: YC

Date: September 2026

File No. 3211H



CHUNG & VANDER DOELEN
ENGINEERING LTD.

311 VICTORIA STREET NORTH
KITCHENER / ONTARIO / N2H 2E1 / 519-742-8979



LEGEND



Subject Development Property

Surficial Geology

- | | |
|---|------------------------------|
| 5b: Stone-poor, carbonate-derived silty to sandy till | 8a: Massive-well laminated |
| 5d: Glaciolacustrine-derived silty to clayey till | 19: Modern alluvial deposits |
| 6: Ice-contact stratified deposits | 20: Organic deposits |
| 7a: Sandy deposits | |
| 7b: Gravelly deposits | |

Map Ref.: Ontario Geological Survey 2010. Surficial Geology of Southern Ontario; Miscellaneous Release - Data 128-REV.



0 m 600 1200
Scale 1:30,000

Figure 2 - Quaternary Geology

Scoped Hydrogeological Assessment
Proposed Subdivision

1949 Gerber Road
Township of Wellesley, ON

Drawn By: YC

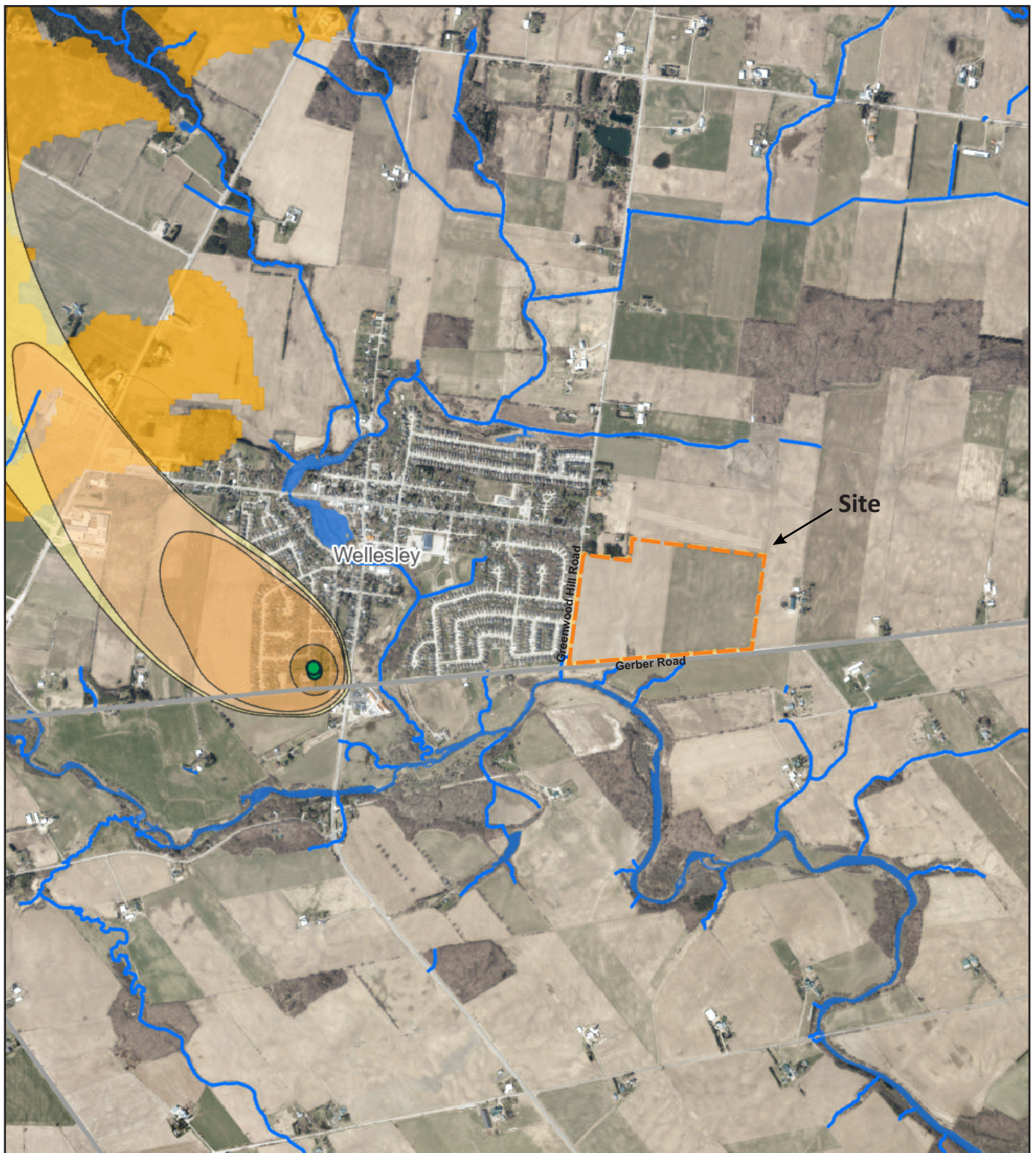
Date: September 2026

File No. 3211H



CHUNG & VANDER DOELEN
ENGINEERING LTD.

311 VICTORIA STREET NORTH
KITCHENER / ONTARIO / N2H 2E1 / 519-742-8979



LEGEND



Subject Development Property

- Regulated Watercourse (GRCA)
- Regulated Waterbody (GRCA)
- Municipal Well (GRCA)
- WHPA-Wellhead Protection Area (GRCA)
 - WHPA-A
 - WHPA-B
 - WHPA-C
 - WHPA-D
- Signif. GW Recharge - Tier 2 (GRCA)

Map Ref.: Grand River Conservation Authority; GRCA Web-GIS; Retrieved September 2026



0 m 500 1000
Scale 1:25,000

Figure 4 - Watershed Mapping

Scoped Hydrogeological Assessment
Proposed Subdivision

1949 Gerber Road
Township of Wellesley, ON

Drawn By: YC

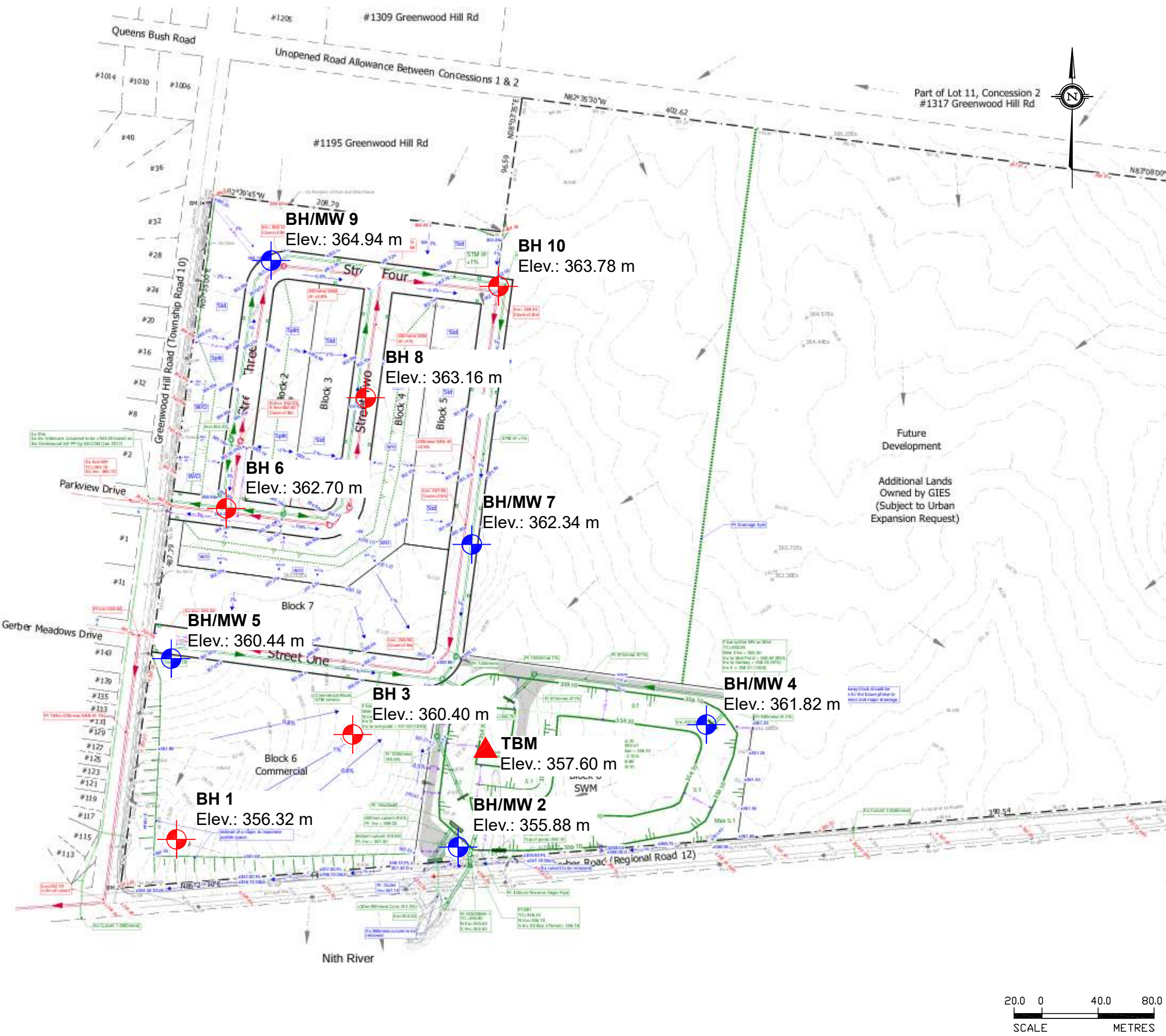
Date: September 2026

File No. 3211H



CHUNG & VANDER DOELEN
ENGINEERING LTD.

311 VICTORIA STREET NORTH
KITCHENER / ONTARIO / N2H 2E1 / 519-742-8979



KEY PLAN SOURCE: Google Earth

LEGEND

- TBM: Orange painted nail located in South entrance to farm field. Elev: 357.60 m (Geodetic)
- Borehole Location
- Borehole and Monitoring Well Location

Elev. Ref.: CVD borehole locations and associated ground surface elevations were surveyed using a Network RTK Global Navigation Satellite System (GNSS) Receiver. The survey data was collected using UTM Zone 17N Projection, NAD83(CSR) v7-2010 datum and Canada Geoid Model HT2_2010v70 (CGVD28).

DWG. Ref.: Meritech Engineering: "Overall Grading and Servicing Concept Plan", 1949 Gerber Road, Wellesley, Ontario; Rev No.: 4599.DPA; Dated: May 22, 2026.

BOREHOLE AND MONITORING WELL LOCATION PLAN

Proposed Subdivision

1949 Gerber Road
Township of Wellesley, Ontario



CHUNG & VANDER DOELEN
ENGINEERING LTD.

311 VICTORIA STREET NORTH
KITCHENER / ONTARIO / N2H 5E1 / 519-742-8979

Drawn By: RP/JR	Date: August 2026	File No.: 3211G
Checked By: YC	Scale: As Shown	Figure: 4



LEGEND

- Approximate Site Boundary
- Monitoring Well Location
- (361.36)** Water Table Elevation (mASL)
- 361.00 Interpreted Groundwater Contour (mASL)
- Interpreted Shallow Groundwater Flow Direction

Scale 1:2,500

Image Ref.: Region of Waterloo; ESRI; Property Search Map; Retrieved: August 2026

**Figure 5:
Water Table Interpretation (July 9, 2026)**

Scoped Hydrogeological Assessment
Proposed Subdivision - Stage 1

1949 Gerber Road
Township of Wellesley, ON

CHUNG & VANDER DOELEN
ENGINEERING LTD.

311 VICTORIA STREET NORTH
KITCHENER / ONTARIO / N2H 2E1 / 519-742-8979

Drawn By: YC	Date: August 2026	File No.: 3211H
--------------	-------------------	-----------------

LEGEND

- Site Boundary
- Survey Area (500 m Radius)
- MECP Water Well Records

Map Source: Microsoft® Bing™ Maps, ©TomTom, ©Vexel Imaging
Well Data - MECP Well Records
<https://data.ontario.ca/dataset/well-records>

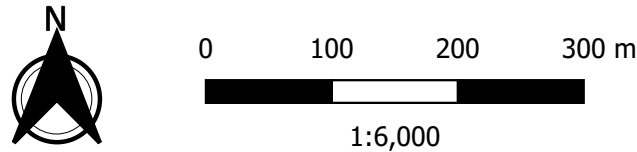


FIGURE 6: DESKTOP WELL INVENTORY

Proposed Subdivision

1949 Gerber Road
Township of Wellesley, ON



CHUNG & VANDER DOELEN
ENGINEERING LTD.

311 Victoria Street North
Kitchener, Ontario, N2H 2E1
519-742-8979

APPENDIX D

Water Well Records



40 P7E

UTM 17 Z 520850 E
5 R 4813150 N
 Elev. 5 R 1185
 Basin 23 5000



ONTARIO

The Water-well Drillers Act, 1954
 Department of Mines

RECEIVED

AUG 20 1955

GEOLOGICAL BRANCH
 DEPARTMENT OF MINES

No. 1889

Water-Well Record

County or Territorial District Waterloo Township, Village, Town or City Wellesley
 Address P.R. 1, Wellesley
 (day) (month) (year)

Pipe and Casing Record

Pumping Test

Casing diameter(s) 4" Static level 50'
 Length(s) Pumping rate 15 g.p.m.
 Type of screen Pumping level 50'
 Length of screen Duration of test 6 hrs.

Well Log

Water Record

Overburden and Bedrock Record	From ft.	To ft.	Depth (s) at which water (s) found	No. of feet water rises	Kind of water (fresh, salty, or sulphur)
Clay	0	85			
Hardpan	85	130			
Stoney Hardpan	130	160			
Gravel & Sand	160	162			
Hardpan	162	175			
Sand	175	219			
Sand & Gravel	219	224			
Gravel	224	232	232'	182'	Fresh

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

Domestic, Farm Stock

Is water clear or cloudy? Clear

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

Drilling firm G. L. Davidson

Address Wingham

Name of Driller J. Baker, K. McLaughlin

Address Wingham

Licence Number 23

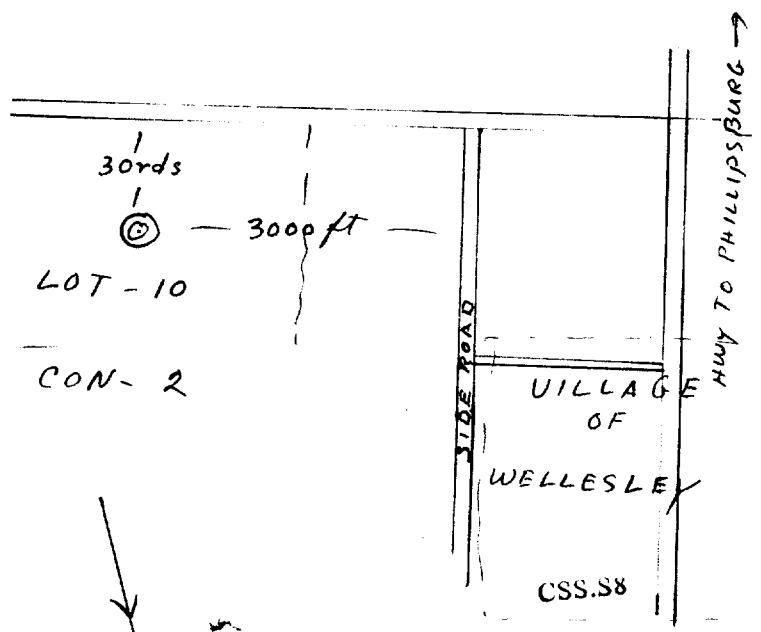
I certify that the foregoing statements of fact are true.

Date Sept. 2, 1955

Signature of Licensee

Location of Well

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



40P7E

UTM 17 Z 521000 E

5 R 4813050 N

Elev. 5 R 1185

Basin 23



ONTARIO

GROUND WATER BRANCH

JAN 5 1980

65 No 1890

The Water-well Drillers Act, 1954
Department of Mines
RESOURCES COMMISSION

Water-Well Record

E-20 Section

Ship, Village, Town or City Wellesley

in Village, Town or City

Address Wellesley Ont

Date completed 26 Nov 1979
(day) (month) (year)

Pipe and Casing Record

Pumping Test

Casing diameter(s) 5 1/2" O.D.
Length(s) 123 feet
Type of screen Cook's Brass #10
Length of screen 5 feet

Static level 38 feet
Pumping rate 30 G.P.M.
Pumping level 60 feet
Duration of test 10 hrs

Well Log

Water Record

Overburden and Bedrock Record

From
ft.To
ft.Depth(s)
at which
water(s)
foundNo. of feet
water risesKind of water
(fresh, salty,
or sulphur)

Concrete Well pit	0	5	128 feet	90	Fresh
Red Clay	5	32			
Hard Pan	32	60			
Blue Clay	60	98			
Hard Pan	98	115			
Sand and Gravel	115	128			

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

Domestic and AgriculturalIs water clear or cloudy? ClearIs well on upland, in valley, or on hillside? UplandDrilling firm E. M. Laughlin & SonsAddress Waterloo OntName of Driller Ellis M. LaughlinAddress 244 Erb St WWaterloo OntLicence Number 286

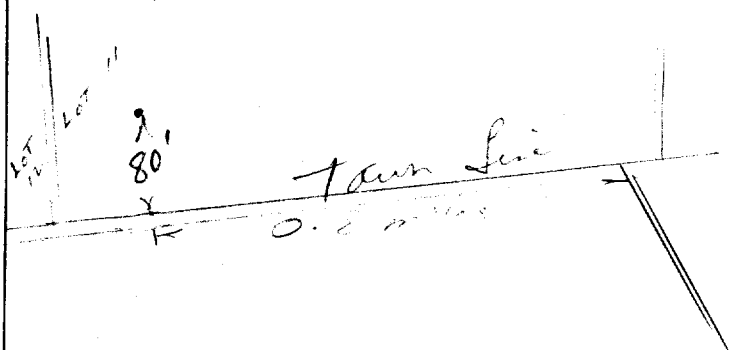
I certify that the foregoing
statements of fact are true.

Date Dec 28 Ellis M. Laughlin

Signature of Licensee

Location of Well

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



UTM 17(2) 5 19780 E
5 R 4813640 N
5 R 1200

40P7f



The Ontario Water Resources Commission Act

WATER WELL RECORD

65 No. 1893

Basin 23 County or District Waterloo Township, Village, Town or City Wellesley Tsp.
Con. II Sec E Lot 12 Date completed 11 February 1966
Owner Wellesley Township School Area Board P.O. Box 125, Linwood, Ontario.
(print in block letters) Address

Casing and Screen Record

Inside diameter of casing 5 1/4"
Total length of casing 198 feet
Type of screen
Length of screen
Depth to top of screen
Diameter of finished hole 5 1/4"

Pumping Test

Static level 40 feet
Test-pumping rate 20 G.P.M. & 50 G.P.M. G.P.M.
Pumping level 70 feet at 50 G.P.M.
Duration of test pumping 3 hours
Water clear or cloudy at end of test clear
Recommended pumping rate 20 G.P.M.
with pump setting of 60-65 feet below ground surface

Well Log

Overburden and Bedrock Record

Sandy clay
Brown sand
Soft brown clay 3/4
Grey clay
Sandy grey clay
Grey rock
Boulders, gravel and sand

From
ft.

To
ft.

0
5
12
38
120
191
200
215

Depth(s) at
which water(s)
found

200-215

Kind of water
(fresh, salty,
sulphur)

fresh

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

School

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

Drilling or Boring Firm

HADCO WELL DIGGING LTD.

Address Elmira, Ontario.

Licence Number 2002

Name of Driller or Borer V.L. Pidgeon

Address c/o Hadco

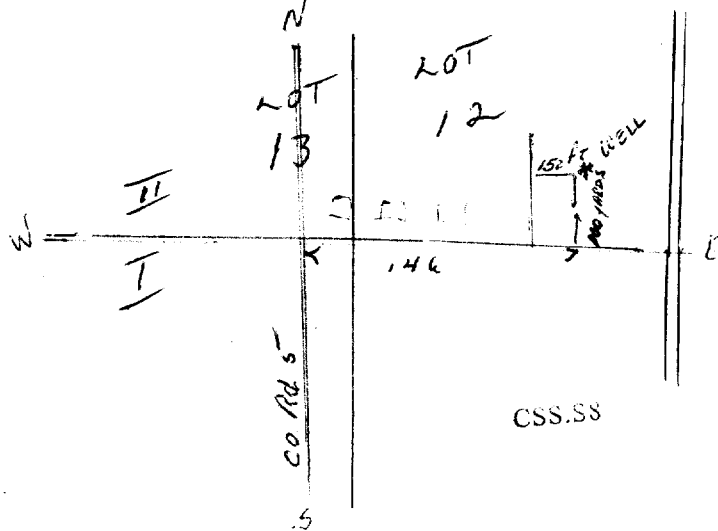
Date February 16, 1966

(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.

In village of Wellesley - vacant lot - proposed school site.





The Ontario Water Resources Commission Act

WATER WELL RECORD

B# 8117

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

11

6503037

MUNICIP.

65003

CON.

ES

C 01

COUNTY OR DISTRICT

Waterloo

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

Wellesley

CON., BLOCK, TRACT, SURVEY, ETC.

I DIV. E.

LOT 011

ADDRESS

DATE COMPLETED

DAY 18 MO June YR 69

21

UTM

17

EASTING

520300

NORTHING

4813060

RC

ELEVATION

1175

RC

BASIN CODE

23

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Clay	3 Boulders	Loose	0	61
Gray	H. sand	stones	packed	61	170
Gray	Dirty sand		Loose	170	201
	H. sand		packed	201	209
	Gravel			209	210

DIVISION OF
WATER RESOURCES

JUN 24 1969

ONTARIO WATER
RESOURCES COMMISSION

31

006160513

017021412

0201209

020918

021011

32

41

WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER			
0210	1 ☒ FRESH	3 ☐ SULPHUR	4 ☐ MINERAL	
	2 ☐ SALTY	4 ☐ MINERAL		
15-18	1 ☐ FRESH	3 ☐ SULPHUR	4 ☐ MINERAL	
	2 ☐ SALTY	4 ☐ MINERAL		
20-23	1 ☐ FRESH	3 ☐ SULPHUR	4 ☐ MINERAL	
	2 ☐ SALTY	4 ☐ MINERAL		
25-28	1 ☐ FRESH	3 ☐ SULPHUR	4 ☐ MINERAL	
	2 ☐ SALTY	4 ☐ MINERAL		
30-33	1 ☐ FRESH	3 ☐ SULPHUR	4 ☐ MINERAL	
	2 ☐ SALTY	4 ☐ MINERAL		

CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
05	1 ☒ STEEL	244	0	0210
	2 ☐ GALVANIZED			
	3 ☐ CONCRETE			
	4 ☐ OPEN HOLE			
17-18	1 ☐ STEEL			20-23
	2 ☐ GALVANIZED			
	3 ☐ CONCRETE			
	4 ☐ OPEN HOLE			
24-25	1 ☐ STEEL			27-30
	2 ☐ GALVANIZED			
	3 ☐ CONCRETE			
	4 ☐ OPEN HOLE			

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	31-33	DIAMETER	34-38
		INCHES	
MATERIAL AND TYPE	None used		
	DEPTH TO TOP OF SCREEN	FEET	

PLUGGING & SEALING RECORD

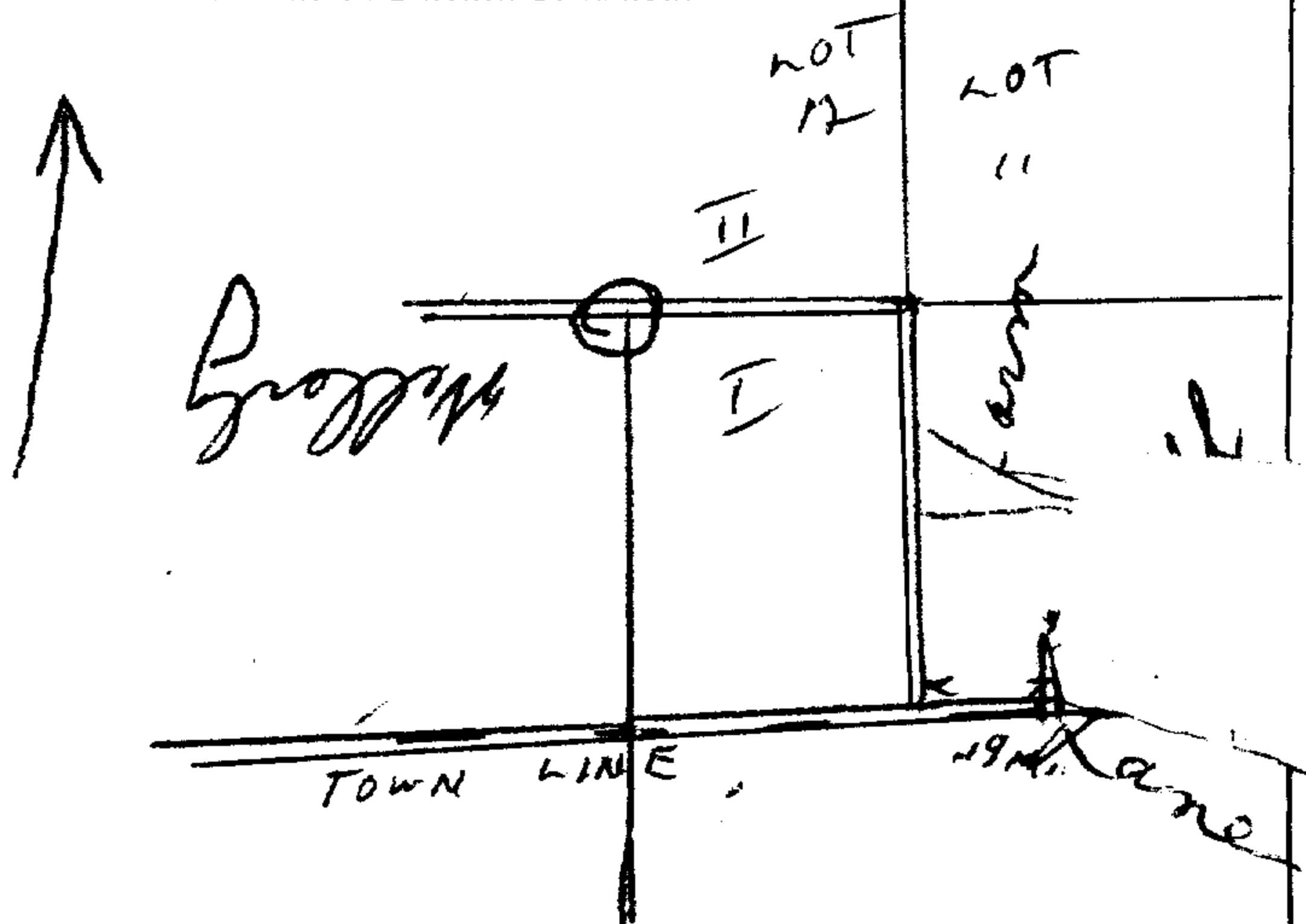
DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM	TO	
10-13	14-17	
18-21	22-25	
26-29	30-33	

71

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING	PUMPING TEST
1 ☒ PUMP	2 ☐ BAILER	0014 GPM.	24 HOURS 00 MINS.
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	1 ☐ PUMPING
020	025	15 MINUTES	2 ☐ RECOVERY
		30 MINUTES	
		45 MINUTES	
		60 MINUTES	
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER LEVEL END OF TEST	
	GPM.	FEET	1 ☒ CLEAR
			2 ☐ CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE	
2 SHALLOW	030	0012	
		17 GPM.	
50-53	002.8 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:

CONTRACTOR	NAME OF WELL CONTRACTOR	LICENCE NUMBER
	Delux Strauss	3254
	ADDRESS	Same
	NAME OF DRILLER OR BORER	LICENCE NUMBER
	Delux Strauss	
	SIGNATURE OF CONTRACTOR	SUBMISSION DATE
		DAY 23 MO June YR 69

OFFICE USE ONLY	DATA SOURCE	CONTRACTOR	DATE RECEIVED
	1	4819	24 06 69
	DATE OF INSPECTION	INSPECTOR	
	14, 16, 69	7/p	
	REMARKS:		
			CSS.S8

OWRC COPY

The Ontario Water Resources Commission Act

WATER RESOURCES

Press SESSION

Pumping Test

Static level 12 feet

Test-pumping rate 125 G.P.M.

Pumping level 195 feet

Duration of test pumping $\frac{1}{2}$

Water clear or cloudy at end of test clear

Recommended pumping rate up to 100 G.P.M.

with pump setting of 80 feet below ground surface

Water Record

Kind of water
(fresh, salty,
sulphur)

	0	86	round	sulphur
Blue clay	0	86		
Rocks & clay	86	142		
Fine sand	142	150		
Rocks & clay	150	270		
Blue shale	270	275-		
Gray rock	275-	282		
Black rock	282	305-		
Broken rock	305-	308	305 to 308	fresh

Location of Well

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

(Signature of Licensed Drilling or Boring Contractor)

Wellesley

A hand-drawn map showing a road intersection. A horizontal road is labeled 'TOWN LINE' at the top left. A diagonal road crosses it from the bottom left to the top right. The intersection is marked with a cross. To the left of the intersection, a road is labeled '750'. To the right of the intersection, a road is labeled '900'. The area to the right of the intersection is divided into two lots: 'Lot 16' and 'Lot 15'. Lot 15 is labeled 'CON' and 'IV'. Lot 16 is labeled 'BLK B'. The bottom right corner of the map is labeled 'CSS.58'.

CSS.S8

S.C.



The Ontario Water Resources Act

WATER WELL RECORD

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK ☒ CORRECT BOX WHERE APPLICABLE

11

6505001

MUNICIP

65003

CON

02

COUNTY OR DISTRICT

Waterloo

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

Wellesley

CON. BLOCK, TRACT, SURVEY, ETC.

F.S. 2

LOT	25.22
-----	-------

012

DATE COMPLETED 8.53

DAY 28 MO Sept. YR. 79

Wellesley

^G 13760

RO

ELEVATION
1190

BASIN CODE
23

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

[illegible]

31 00116052811 01202051273 019660573 02026112877

32

10

24

24

24

WATER RECORD

WATER FOUND AT - FEET		KIND OF WATER			
10-13	1 ☒ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL	14		
13-18	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL	19		
20-23	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL	24		
25-28	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL	29		
30-33	1 ☐ FRESH 2 ☐ SALTY	3 ☐ SULPHUR 4 ☐ MINERAL	34		

CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES		MATERIAL		WALL THICKNESS INCHES		DEPTH - FEET	
						FROM	TO
10-11	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	12					13-16
05			244			IX I	0I98
17-18	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	19					20-23
24-25	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	26					27-30

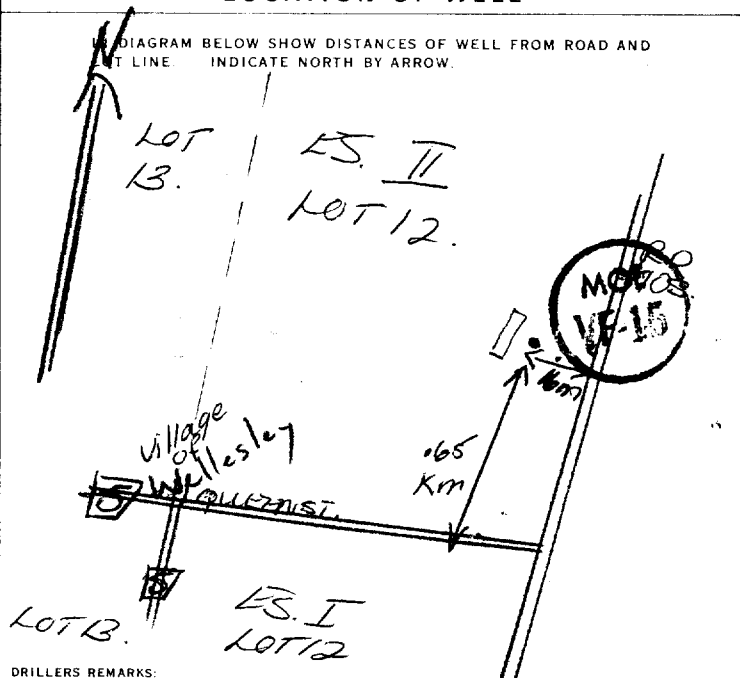
PLUGGING & SEALING RECORD

DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER ETC.)
FROM	TO	
10-13	14-17	with 4' of 4" pipe above screen with type K packer
198	202	
18-21	22-25	
26-29	30-33	

71	PUMPING TEST METHOD		10	PUMPING RATE		11-14	DURATION OF PUMPING	
	1 ☒ PUMP	2 ☐ RAILER		0012		GPM	05	15-16 HOURS 00
			25	WATER LEVELS DURING		1 ☒ PUMPING		
	STATIC LEVEL	WATER LEVEL END OF PUMPING				2 ☐ RECOVERY		
	19-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES		
035	0824	082	084	084	084			
FEET		FEET	FEET	FEET	FEET	FEET	FEET	
IF FLOWING, GIVE RATE		38-41	PUMP INTAKE SET AT		WATER AT END OF TEST		42	
		GPM	I00		FEET	1 ☒ CLEAR 2 ☐ CLOUDY		
RECOMMENDED PUMP TYPE			RECOMMENDED PUMP SETTING		43-45	RECOMMENDED PUMPING RATE		
☐ SHALLOW ☒ DEEP			I00		FEET	0007		
						GPM		
50-53								

LOCATION OF WELL

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



DRILLERS REMARKS:

CONTRACTOR	NAME OF WELL CONTRACTOR		LICENCE NUMBER	
	C. A. Kerr Well Drilling		3I34	
	ADDRESS			
	66 Christian St. Baden NOB-126			
	NAME OF DRILLER OR BORER		LICENCE NUMBER	
	Charles A. Kerr		3I34	
	SIGNATURE OF CONTRACTOR		SUBMISSION DATE	
			DAY 25 MO. Oct. YEAR 79	

OFFICE USE ONLY	DATA SOURCE	58	CONTRACTOR	59-62	DATE RECEIVED	63-67	68	69	70
	1		3134		15	11	79		
	DATE OF INSPECTION		INSPECTOR						
			May 25 / 81 JW locator						
	REMARKS:								
	CSS.S8								



Ministry
of the
Environment
Ontario

The Ontario Water Resources Act 400/79
WATER WELL RECORD

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

6505037

MUNICIPALITY

65.004

CON.

BL. 1. 8. 10.4

COUNTY OR DISTRICT

WATERLOO

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

WILMOT

CON. PLOT, TRACT, SURVEY, ETC.

Block BTL

LOT

015

RR1 WELLESLEY

DATE COMPLETED

DAY 22 MO 08 YR 79

THING

81.2760

RC

4

ELEVATION

1180

RC

4

BASEIN CODE

23

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BROWN	CLAY			0	14
GRAY	"			14	113
BROWN	HARDPAN			113	164
"	CLAY		GRITTY	164	173
"	HARDPAN		STONE	173	211
"	"		"	211	257
"	"		"	257	263
BROWN	"		"		
BLUE	SHALE			263	269
"	LIMESTONE + SHALE			269	302

31	0014605	0014605	0014605	0014605	0014605	0014605	0014605	0014605	0014605
32	0014605	0014605	0014605	0014605	0014605	0014605	0014605	0014605	0014605

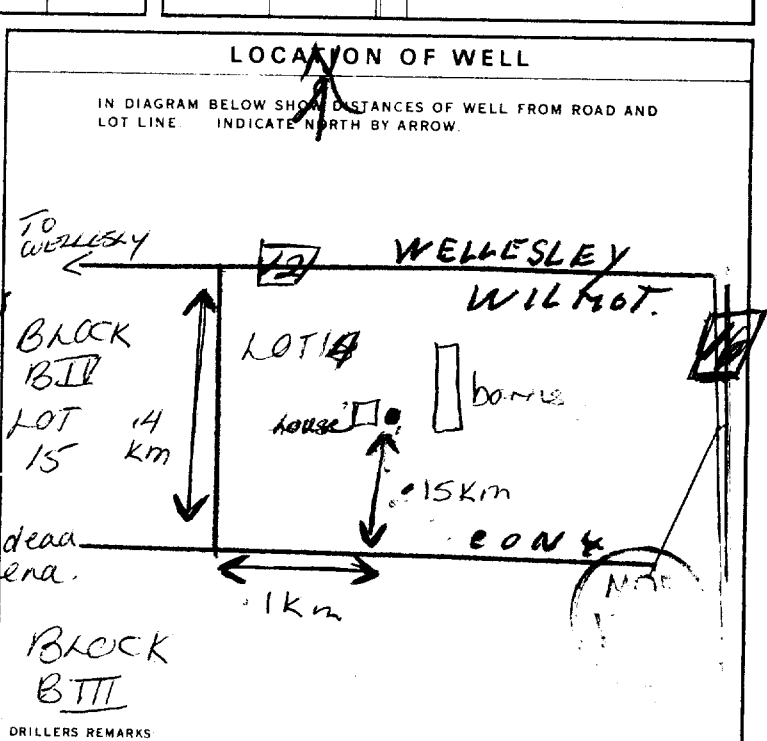
WATER RECORD	
WATER FOUND AT - FEET	KIND OF WATER
0300	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
15-18	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
20-23	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
25-28	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
30-33	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

CASING & OPEN HOLE RECORD	
INSIDE DIAM. INCHES	MATERIAL
05	1 ☒ STEEL 12 2 ☐ GALVANIZED 3 ☐ CONCRETE
17-18	1 ☐ STEEL 19 2 ☐ GALVANIZED 3 ☐ CONCRETE
24-25	1 ☒ OPEN HOLE 26 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE

SCREEN	SIZE (S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
		INCHES	FEET

PLUGGING & SEALING RECORD	
DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
10-13	14-17
18-21	22-25
26-29	30-33

PUMPING TEST	
71	1 ☒ PUMP 2 ☐ BAILER
0025	11-14 DURATION OF PUMPING 03 15-16 HOURS 17-18 MINS
02P	25 WATER LEVELS DURING 1 ☒ PUMPING 2 ☐ RECOVERY
043	29-31 30 MINUTES 45 MINUTES 60 MINUTES
043	32-34 35-37
043	38-41 PUMP INTAKE SET AT 43
043	42 WATER AT END OF TEST 1 ☒ CLEAR 2 ☐ CLOUDY
043	43-45 RECOMMENDED PUMP SETTING 045
043	46-49 RECOMMENDED PUMPING RATE 0025



FINAL STATUS OF WELL	
1 ☒ WATER SUPPLY	5 ☐ ABANDONED, INSUFFICIENT SUPPLY
2 ☐ OBSERVATION WELL	6 ☐ ABANDONED, POOR QUALITY
3 ☐ TEST HOLE	7 ☐ UNFINISHED
4 ☐ RECHARGE WELL	
WATER USE	
1 ☒ DOMESTIC	5 ☐ COMMERCIAL
2 ☐ STOCK	6 ☐ MUNICIPAL
3 ☐ IRRIGATION	7 ☐ PUBLIC SUPPLY
4 ☐ INDUSTRIAL	8 ☐ COOLING OR AIR CONDITIONING
	9 ☐ NOT USED
METHOD OF DRILLING	
1 ☐ CABLE TOOL	6 ☐ BORING
2 ☒ ROTARY (CONVENTIONAL)	7 ☐ DIAMOND
3 ☐ ROTARY (REVERSE)	8 ☐ JETTING
4 ☐ ROTARY (AIR)	9 ☐ DRIVING
5 ☐ AIR PERCUSSION	

CONTRACTOR	
NAME OF WELL CONTRACTOR	LICENCE NUMBER
NEIL STEINMAN	4812
ADDRESS	
RR6 WOODSTOCK	
NAME OF DRILLER OR BORER	LICENCE NUMBER
SIGNATURE OF CONTRACTOR	SUBMISSION DATE
Neil Steinman	DAY 22 MO 08 YR 79

OFFICE USE ONLY	
DATA SOURCE	CONTRACTOR
1	4812
DATE OF INSPECTION	INSPECTOR
	May 18/81
REMARKS	
	CSS.S8



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

6505406

MUNICIP

65003

CON

ES

02

COUNTY OR DISTRICT

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

CON. BLOCK, TRACT, SURVEY, ETC.

LOT

DATE COMPLETED

09 012 82

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Grey	clay			0	120
Grey	clay	Longly		120	195
Grey	stones and gravel			195	200

31	0120205	019520581	020021211
32			

41 WATER RECORD	
WATER FOUND AT - FEET	KIND OF WATER
10-13	1 ☒ FRESH 3 ☐ SULPHUR 4 ☐ MINERAL
15-18	1 ☐ FRESH 3 ☐ SULPHUR 4 ☐ MINERAL
20-23	1 ☐ FRESH 3 ☐ SULPHUR 4 ☐ MINERAL
25-28	1 ☐ FRESH 3 ☐ SULPHUR 4 ☐ MINERAL
30-33	1 ☐ FRESH 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD			
INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
10-11	1 ☒ STEEL 2 ☒ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0 (200)
17-18	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE		20-23
24-25	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE		27-30

SCREEN	SIZE(S) OF OPENING (SLOT NO.)	DIAMETER	LENGTH
	MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN	

61 PLUGGING & SEALING RECORD	
DEPTH SET AT - FEET	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
FROM TO	
10-13	14-17
18-21	22-25
26-29	30-33

71 PUMPING TEST METHOD		10 PUMPING RATE	11-14 DURATION OF PUMPING
1 ☒ PUMP 2 ☐ BAILER		006.5 GPM	01 15-16 HOURS 17-18 MINS
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	1 ☐ PUMPING 2 ☒ RECOVERY
19-21	22-24	15 MINUTES 30 MINUTES 45 MINUTES 60 MINUTES	
046 FEET	190 FEET	046 FEET 046 FEET 046 FEET 046 FEET	
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST	
	GPM	FEET	1 ☒ CLEAR 2 ☐ CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE	
☐ SHALLOW ☒ DEEP	090	20-30 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
WATER USE	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 ☐ CABLE TOOL 2 ☐ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☒ ROTARY (AIR) 5 ☐ AIR PERCUSSION	6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

LOCATION OF WELL	
IN DIAGRAM BELOW SHOW DISTANCES OF WELL FROM ROAD AND LOT LINE. INDICATE NORTH BY ARROW.	
Village of Wellerley	
E.S. CONTI	
Lot 13	
Lot 12	
Public School	
0.05km	
0.05km	
Well in front of school in Village of Wellerley	
DRILLERS REMARKS	

CONTRACTOR	NAME OF WELL CONTRACTOR	LICENCE NUMBER
	Wesley Packham	4208
	ADDRESS	
	RA 2 on east	
	NAME OF DRILLER OR BORER	LICENCE NUMBER
	Merwyn Packham	4207
	SIGNATURE OF CONTRACTOR	SUBMISSION DATE
	Wesley Packham	9 NOV 82

OFFICE USE ONLY	DATA SOURCE	CONTRACTOR	DATE RECEIVED
	1	4208	01 02 83
	DATE OF INSPECTION	INSPECTOR	
			July 20/83
	REMARKS		

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506-4-77 FORM 7



WATER WELL RECORD

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

11

6505685

[illegible]

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH CITY, TOWN, VILLAGE	CON. BLOCK, TRACT, SURVEY ETC.	LOT					
Waterloo	Wellesley E.S. Twp.	Con. 2	Pt. 12					
DATE COMPLETED		48-53						
Campbell Place, Wellesley, Ont.		17 May 85.						
DAY MO YR								
THING	RC	ELEVATION	RC	BASIN CODE	I	II	III	IV

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Brown	Sandy clay		Soft	0	18
Grey	Clay	Stones	Hard	18	36
Grey	Sand	Gravel	Soft]	36	42
Grey	Clay	Sand streaks	Soft	42	106
Grey	Sand	Clay streaks	Soft	106	128
Grey	Hardpan	Stones	Hard	128	173
Grey	Sand	Clay streaks	Soft	173	201
Grey	Sand	Gravel	Soft, mixed	201	208
Grey	Fine gravel	Boulders	Soft, mixed	208	215

31

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER	
20-23 211-215	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ 4 ☐ MINERAL	11
15-18	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL	11
20-23	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL	24
25-28	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL	21
30-33	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL	34

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	12		
6		.188	0	211-2
17-18	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	19		
				20-21
24-25	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	26		
				27-30

SCREEN	SIZE(S) OF OPENING (SLOT NO.)	31-33	DIAMETER	34-38	LENGTH	39-40
	#30 slot		5.75	INCHES	3	FEET
	MATERIAL AND TYPE	Stainless Steel		DEPTH TO TOP OF SCREEN	41-44	10
	Telescope			212-0	FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)
FROM	TO	
10-13	14-17	
18-21	22-25	
26-29	30-33	80

71	PUMPING TEST METHOD		10	PUMPING RATE		11-14	DURATION OF PUMPING								
	1 ☒ PUMP 2 ☐ BAILER		50 Imp.		6 PM	24		15-16 HOURS							
	17-18 MINS														
	STATIC LEVEL		25		WATER LEVELS DURING		1 ☒ PUMPING								
	WATER LEVEL END OF PUMPING		2				☐ RECOVERY								
19-21		22-24		15 MINUTES		30 MINUTES		45 MINUTES		60 MINUTES					
44' 5"		75.71		72.09		72.56		72.45		73.38					
FEET		FEET		FEET		FEET		FEET		FEET					
IF FLOWING GIVE RATE				38-41				PUMP INTAKE SET AT				42			
				GPM				88				FEET			
				1 ☒ CLEAR 2 ☐ CLOUDY											
RECOMMENDED PUMP TYPE				RECOMMENDED PUMP SETTING				43-45				RECOMMENDED PUMPING RATE			
☐ SHALLOW ☒ DEEP				100				FEET				50 Imp. GPM			
50-53															

LOCATION OF WELL

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

**FINAL
STATUS
OF WELL**

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

WATER USE

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

METHOD OF DRILLING

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

OFFICE USE ONLY

DATA SOURCE	58	CONTRACTOR	59-62	RECEIVED	03-07-85	63-68	80
DATE OF INSPECTION		INSPECTOR					
REMARKS							

CSS.ES

FORM NO. 0506-4-77 FORM 7



WATER WELL RECORD

6506204

MUNICIPAL

4. CN.

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11

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON. BLOCK, TRACT, SURVEY, ETC.	LOT
WATERLOO	WELLESLEY	2	11
RR#3 WELLESLEY ONT.		DATE COMPLETED	48 53
		DAY 15	MO 05
			YR 87

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

[illegible]

31

32

41 WATER RECORD

WATER FOUND AT - FEET		KIND OF WATER				
196	10-13	1	☒ FRESH	3	☒ SULPHUR	14
		2	☒ SALTY	4	☒ MINERALS	
10200	15-18	1	☒ FRESH	3	☒ SULPHUR	19
		2	☒ SALTY	4	☒ MINERALS	
	20-23	1	☐ FRESH	3	☐ SULPHUR	24
		2	☐ SALTY	4	☐ MINERALS	
	25-28	1	☐ FRESH	3	☐ SULPHUR	29
		2	☐ SALTY	4	☐ MINERALS	
	30-33	1	☐ FRESH	3	☐ SULPHUR	34
		2	☐ SALTY	4	☐ MINERALS	

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
10-11 6 1/4	1 ☒ STEEL 2 ☒ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	11-12 1.188	0	200
17-18	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	19		20-21
24-25	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC	26		27-28

Z	SIZE(S) OF OPENING	31-33	DIAMETER	34-38	LENGTH	39-40
	(SLOT NO.)					

SCREEN	INCHES		FEET	
	MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN	41-44	3
			FEET	

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET		MATERIAL AND TYPE (CEMENT GROUT LEAD PACKER, ETC.)
FROM	TO	
10-13	14-17	
18-21	22-25	
26-29	30-33	80

PUMPING TEST METHOD	10	PUMPING RATE	11-14	DURATION OF PUMPING
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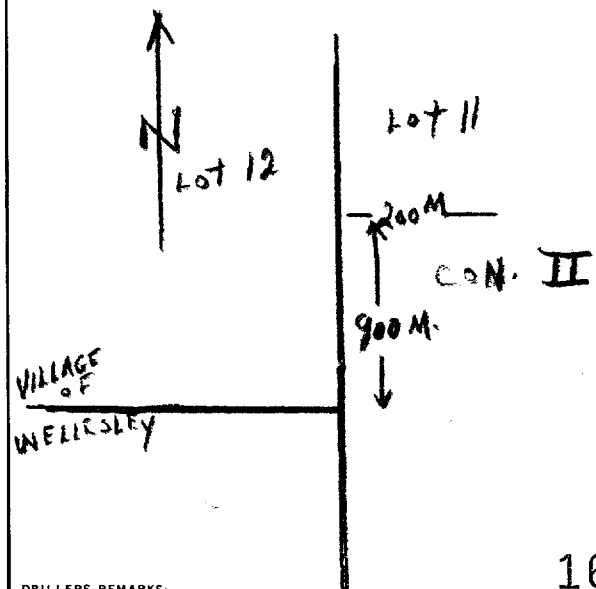
PUMPING TEST	AIR ☒ PUMP ☐ BAILER		20 GPM		2 HOURS		15-16 17-18 MINS	
	STATIC LEVEL	WATER LEVEL END OF PUMPING	25 WATER LEVELS DURING				1 ☐ PUMPING 2 ☐ RECOVERY	
	19-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES		
	35 FEET	55 FEET	36 ²⁰⁻²⁸ FEET	35 ²⁰⁻³¹ FEET	— FEET	35-37 FEET		
	IF FLOWING, GIVE RATE	10-11	PUMP INTAKE SET AT			WATER AT END OF TEST		
	GPM		105 FEET			1 ☒ CLEAR 2 ☐ CLOUDY		
	RECOMMENDED PUMP TYPE		RECOMMENDED PUMP SETTING		43-48	RECOMMENDED PUMPING RATE		48-49
	☐ SHALLOW ☒ DEEP		65 FEET		20		GPM	
90-53								

FINAL	54	1 WATER SUPPLY	5 ☐ ABANDONED, INSUFFICIENT SUPPLY
-------	----	--	---

FINAL STATUS OF WELL	1 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL	6 ☐ ABANDONED POOR QUALITY 7 ☐ UNFINISHED 9 ☐ DEWATERING
WATER USE	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 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

16251

NAME OF WELL CONTRACTOR	WELL CONTRACTOR'S
-------------------------	-------------------

CONTRACTOR	McLAUGHLIN WATER WELLS		LICENCE NUMBER 3518
	ADDRESS 38 DOLMAN ST. BRESLAU		
	NAME OF WELL TECHNICIAN ROB McLAUGHLIN		WELL TECHNICIAN'S LICENCE NUMBER T-0348
	SIGNATURE OF TECHNICIAN (CONTRACTOR) R. McLaughlin		SUBMISSION DATE DAY 16 MO. 06 YR. 87

DATA	58	CONTRACTOR	59-62	DATE RECEIVED	63-68	8
------	----	------------	-------	---------------	-------	---

OFFICE USE ONLY	SOURCE		FEB 05 1988
	DATE OF INSPECTION	INSPECTOR	
	REMARKS		
	CSS.ES		



The Ontario Water Resources Act

WATER WELL RECORD

Print only in spaces provided.
Mark correct box with a checkmark, where applicable.

6508310

Municipality **65004** Con. **BLOC B 04**

County or District WATERLOO	Township/Borough/City/Town/Village WELLESLEY WILMOT	Con block tract survey, etc. 4	Lot 17	25-27
Address RR #1, WELLESLEY ONTARIO		Date completed 3 11 1988		48-53
		day month year		

[illegible]

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)

[illegible][illegible]

41		10		14		15		21		27		
WATER RECORD												
Water found at – feet				Kind of water								
190-191				10-13		1	☐ Fresh	3	☐ Sulphur	14		
				2	☐ Salty	4	☐ Minerals					
				15-18		1	☐ Fresh	3	☐ Sulphur	19		
				2	☐ Salty	4	☐ Minerals					
				20-23		1	☐ Fresh	3	☐ Sulphur	24		
				2	☐ Salty	4	☐ Minerals					
				25-28		1	☐ Fresh	3	☐ Sulphur	29		
				2	☐ Salty	4	☐ Minerals					
				30-33		1	☐ Fresh	3	☐ Sulphur	34		
				2	☐ Salty	4	☐ Minerals					

51					CASING & OPEN HOLE RECORD			
Inside diam inches	Material	Wall thickness inches	Depth - feet					
			From	To				
10-11 6"	☐ Steel ☒ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			13-16				
		.188	0	189				
17-18 6"	☐ Steel ☒ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			20-23				
			189	191				
24-25	☐ Steel ☐ Galvanized ☐ Concrete ☐ Open hole ☐ Plastic			27-30				

SCREEN	Sizes of opening (Slot No.)	31-33	Diameter	34-38	Length	39-46
			inches		feet	
	Material and type			Depth at top of screen	41-44	feet

61		PLUGGING & SEALING RECORD	
☐ Annular space ☐ Abandonment			
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
10-13	14-17		
18-21	22-25		
26-29	30-33	34	

PUMPING TEST	Pumping test method ¹⁰ 1 ☒ Pump 2 ☐ Bailer		Pumping rate ¹¹⁻¹⁴ 20 GPM		Duration of pumping ¹⁷⁻¹⁸ 1 Hours 20 Mins	
	Static level 19-21 7 feet	Water level end of pumping 22-24 feet	Water levels during 15 minutes ²⁵⁻²⁶ 7 feet 30 minutes ²⁹⁻³¹ feet		1 ☐ Pumping 2 ☐ Recovery 45 minutes ³²⁻³⁴ feet 60 minutes ³⁵⁻³⁷ feet	
	If flowing give rate ³⁸⁻⁴¹ GPM		Pump intake set at feet		Water at end of test ⁴² ☐ Clear ☐ Cloudy	
	Recommended pump type ☐ Shallow ☐ Deep		Recommended pump setting ⁴³⁻⁴⁵ 20+ feet		Recommended pump rate ⁴⁶⁻⁴⁹ 20 GPM	
	50-53					

FINAL STATUS OF WELL		54	
1 ☐ Water supply	5 ☐ Abandoned, insufficient supply	9 ☐ Unfinished	
2 ☒ Observation well	6 ☐ Abandoned, poor quality	10 ☐ Replacement well	
3 ☐ Test hole	7 ☐ Abandoned (Other)		
4 ☐ Recharge well	8 ☐ Dewatering		

WATER USE		55-56	
1 ☐ Domestic	5 ☐ Commercial	9 ☐ Not used	
2 ☒ Stock	6 ☐ Municipal	10 ☐ Other	
3 ☐ Irrigation	7 ☐ Public supply		
4 ☐ Industrial	8 ☐ Cooling & air conditioning		

METHOD OF CONSTRUCTION		57	
1 ☐ Cable tool	5 ☐ Air percussion	9 ☐ Driving	
2 ☐ Rotary (conventional)	6 ☐ Boring	10 ☐ Digging	
3 ☒ Rotary (reverse)	7 ☐ Diamond	11 ☐ Other	
4 ☐ Rotary (air)	8 ☐ Jetting		

LOCATION OF WELL

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

City Rd 12 Bamberg →

1400'

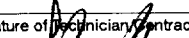
↓ 120'

City Rd 5

Well/lot line ↑

APPROX.

185986

Name of Well Contractor DURL HOPPER LIMITED	Well Contractor's Licence No 2844
Address RR # 7, ST. MARYS, ONTARIO N4X 1C9	
Name of Well Technician SHAWN HOPPER	Well Technician's Licence No T-2316
Signature of Technician/Contractor 	Submission date 18 JUL 1998 day mo yr

MINISTRY USE ONLY	Data source	58 Contractor	59-62	Date received	63-68
	2644		DEC 14 1998		
	Date of inspection		Inspector		
	Remarks				
	CSS. ES9				



Measurements recorded in: ☐ Metric ☐ Imperial

Well Tag No. (Place Sticker and/or Print Below)

Tag #: A 216965

A216965

Well Record

Regulation 903 Ontario Water Resources Act

Page 2 of 2

Address of Well Location (Street Number/Name) 1805 GERBER ROAD		Township WELLESLEY W		Lot 10	Concession 2	
County/District/Municipality WATERLOO		City/Town/Village WELLESLEY			Province Ontario	Postal Code
UTM Coordinates NAD 83	Zone 17	Easting 521003	Northings 4813386	Municipal Plan and Sublot Number		Other

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)	
				From	To
BROWN	TOPSOIL			0	2
BROWN	CLAY, FIRM			2	18
GREY	CLAY, SOFT			18	75
GREY	CLAY, HARD			75	84
GREY	CLAY, OCC STONES			84	100
GREY	GRAVEL, SAND, STONES			100	107
GREY	CLAY, STONES	HARDPAN		107	115

Annular Space			
Depth Set at (m/ft)		Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
From	To		
0	95	BENTONITE SLURRY	
95	115	SAND PACK	

Method of Construction		Well Use	
☐ Cable Tool	☐ Diamond	☐ Public	☐ Commercial
☐ Rotary (Conventional)	☐ Jetting	☐ Domestic	☐ Municipal
☐ Rotary (Reverse)	☐ Driving	☐ Livestock	☐ Test Hole
☐ Boring	☐ Digging	☐ Irrigation	☐ Cooling & Air Conditioning
☐ Air percussion		☐ Industrial	
☐ Other, specify		☐ Other, specify	

Construction Record - Casing				Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From To	☐ Water Supply	☐ Replacement Well
6	STEEL	.219	+2 102	☐ Test Hole	☐ Recharge Well
6	STEEL	.219	106 115	☐ Dewatering Well	☐ Observation and/or Monitoring Hole
				☐ Alteration (Construction)	☐ Abandoned, Insufficient Supply
				☐ Abandoned, Poor Water Quality	☐ Abandoned, other, specify
				☐ Other, specify	

Construction Record - Screen			
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From To
6	S STEEL	40	102 106

Water Details		Hole Diameter	
Water found at Depth 102 (m/ft) ☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify	Depth (m/ft) From To	Diameter (cm/in)
Water found at Depth 106 (m/ft) ☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify	0 115	8.75
Water found at Depth (m/ft) ☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, specify		

Well Contractor and Well Technician Information		
Business Name of Well Contractor Durl Hopper Ltd.	Well Contractor's Licence No. 2644	
Business Address (Street Number/Name) RR#7	Municipality St. Marys	
Province Ont.	Postal Code N4X1C9	Business E-mail Address hopper@cyg.net
Bus. Telephone No. (inc. area code) 5192717860		
Name of Well Technician (Last Name, First Name) HOPPER DOUGLAS		
Well Technician's Licence No. 2323	Signature of Technician and/or Contractor	Date Submitted 6/12/2017

Results of Well Yield Testing				
After test of well yield, water was: ☒ Clear and sand free ☐ Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:	Static Level	41		
	1	49	1	74
Pump intake set at (m/ft)	2	55	2	69
	3	61	3	66
Pumping rate (l/min / GPM)	4	63	4	64.5
	5	62	5	62
Duration of pumping hrs + min	10	75	10	58
	15	76	15	53
Final water level end of pumping (m/ft)	20	76.5	20	51.5
	25	77.5	25	50
If flowing give rate (l/min / GPM)	30	78	30	49
	40	79.5	40	48
Recommended pump depth (m/ft) 90	50	80.5	50	47
	60	81	60	46
Recommended pump rate (l/min / GPM) 9				
Well production (l/min / GPM) 10				
Disinfected? ☒ Yes ☐ No				

Map of Well Location	
Please provide a map below following instructions on the back.	
Comments: APPROX	

Measurements recorded in: ☐ Metric ☒ Imperial

A289705

Address of Well Location (Street Number/Name)

1317 Greenwood Hill Rd.

Township

Wellesley ES

Lot

PT 11

Concession

2

County/District/Municipality

Waterloo

City/Town/Village

Wellesley

Province

Ontario

Postal Code

N0B2T0

UTM Coordinates Zone Easting

Northing

Municipal Plan and Sublot Number

Other

NAD 83 17526128 4813968

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form)

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft)
Brown	Clay			0 19
Grey	Clay			19 95
Grey	Clay	Oce Cobbles		95 205
Grey	Gravel		Medium	205 207
Grey	Stones	Cobbles		207 209

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0 100'	Bentonite Slurry	
100 180'	Bentonite - Clay	
180 209'	Natural Pack	

Method of Construction

Well Use

☐ Cable Tool	☐ Diamond	☐ Public	☐ Commercial	☐ Not used
☒ Rotary (Conventional)	☐ Jetting	☐ Domestic	☐ Municipal	☐ Dewatering
☐ Rotary (Reverse)	☐ Driving	☐ Livestock	☐ Test Hole	☐ Monitoring
☐ Boring	☐ Digging	☐ Irrigation	☐ Cooling & Air Conditioning	
☐ Air percussion		☐ Industrial		
☐ Other, specify		☐ Other, specify		

Construction Record - Casing

Status of Well

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	
6.125	Steel (In)	.219	+2	209

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
	OPEN END			

Water Details

Hole Diameter

Water found at Depth (m/ft)	Kind of Water: ☒ Fresh ☐ Untested	Depth (m/ft)	Diameter (cm/in)
205	☐ Gas ☐ Other, specify	0 209	8.75

Well Contractor and Well Technician Information

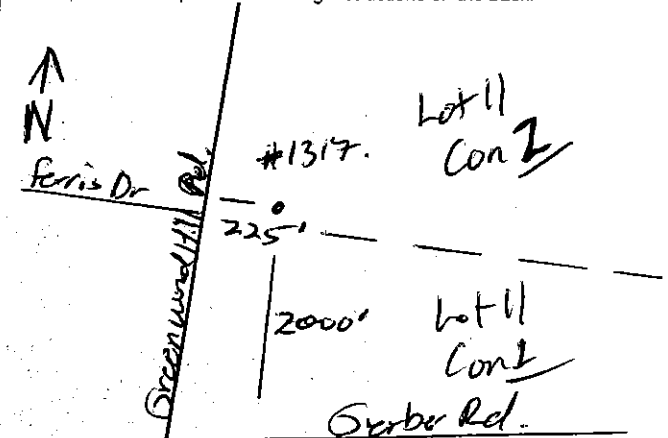
Business Name of Well Contractor	Well Contractor's Licence No.
SD HOPPER DRILLING	7643
Business Address (Street Number/Name)	Municipality
3014 Rd 119	ST MARKS
Province	Postal Code
ON	N4K1C9
Business E-mail Address	
info@hopperwells.ca	
Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
519 271 7860	HOPPER, DOUGLAS
Well Technician's Licence No.	Signature of Technician and/or Contractor
2323	
	Date Submitted
	20201030

Results of Well Yield Testing

After test of well yield, water was:	Draw Down	Recovery
☒ Clear and sand free	Time (min)	Water Level (m/ft)
☐ Other, specify	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:	Static Level	
	45	
Pump intake set at (m/ft)	1	50.8 45.8
	2	50.9 45.2
Pumping rate (l/min / GPM)	3	51. 45.2
	4	51 45.2
Duration of pumping	5	51 45.2
1 hrs + 0 min	10	51 45.1
Final water level end of pumping (m/ft)	15	51 45
	20	51 45
If flowing give rate (l/min / GPM)	25	51 45
	30	51 45
Recommended pump depth (m/ft)	40	51 45
	50	51 45
Recommended pump rate (l/min / GPM)	60	51 45
Well production (l/min / GPM)		
50+		
Disinfected?		
☒ Yes ☐ No Initial		

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Approx Distance

Well owner's information package delivered	Date Package Delivered	Ministry Use Only
☒ Yes	20201030	Audit No. 2268660
☐ No	20201030	DEC 04 2020
		Received

APPENDIX E

Enclosures



Soil Abbreviations and Terms Used on Record of Borehole Sheets

TERMINOLOGY DESCRIBING COMMON SOIL TYPES:

Topsoil	-	mixture of soil and humus capable of supporting vegetation
Peat	-	mixture of visible and invisible fragments of decayed organic matter
Till	-	unstratified glacial deposit which may range from clay to boulders
Fill	-	soil materials identified as being placed anthropologically

CLASSIFICATION (UNIFIED SYSTEM)

Clay	<0.002mm
Silt	0.002 to .075mm
Sand	0.075 to 4.75mm
	Fine 0.075 to 0.425 mm
	Medium 0.425 to 2.0 mm
	Coarse 2.0 to 4.75 mm
Gravel	4.75 to 75mm
	Fine 4.75 to 19 mm
	Coarse 19 to 75 mm
Cobbles	75 to 300mm
Boulders	>300mm

TERMINOLOGY

Soil Composition	% by Weight
"traces"	<10%
"some"(eg. some silt)	10-20%
Adjective (eg. sandy)	20-35%
"and"(eg. sand and gravel)	35-50%

Standard Penetration Resistance (SPT): Standard Penetration Resistance ('N' Values) refers to the number of blows required to advance a standard (ASTM D1586) 51 mm Ø (2 inch) split-spoon sampler by the use of a free falling, 63.5 Kg (140lbs) hammer. The number of blows from the drop weight is recorded for every 15 cm (6 inches). The hammer is dropped from a distance of 0.76m (30 inches) providing 474.5 Joules per blow. When the sampler is driven a total of 45 cm (18 inches) into the soil, the standard penetration index ('N' Value) is the total number of blows for the last 30 cm (12 inches).

Dynamic Cone Penetration Resistance (DCPT): Dynamic Cone Penetration Resistance is similar to a SPT with the 474.5 Joule/blow impulse provided by the free falling hammer where the split-spoon sampler is replaced by a 51 mm Ø, 60° conical point and the number of blows is recorded continuously for every 30 cm (12 inches).

COHESIVE SOILS CONSISTENCY

	(kPa)	(P.S.F.)	Nominal 'N' Value
Very Soft	<12	<250	0-2
Soft	12-25	250-500	2-4
Firm	25-50	500-1000	4-8
Stiff	50-100	1000-2000	8-15
Very Stiff	100-200	2000-4000	15-30
Hard	>200	>4000	>30

RELATIVE DENSITY OF COHESIONLESS SOIL

	'N' Value
Very Loose	0-4
Loose	4-10
Compact	10-30
Dense	30-50
Very Dense	>50

MOISTURE CONDITIONS:

Cohesive Soil
DTPL- Drier than plastic limit
APL- About plastic limit
WTPL- Wetter than plastic limit
MWTPL- Much wetter than plastic limit

Cohesionless Soil
Damp
Moist
Wet
Saturated

SAMPLE TYPES AND ADDITIONAL FIELD TESTS

SS or SA	Split Spoon Sample (obtained from SPT)	GS	Grab Sample	PP	Pocket Penetrometer
AS	Auger Sample	BS	Bulk Sample	VANE	Peak & Remolded shear
		TW	Thin Wall Sample or Shelby Tube	DMT	Flat Plate Dilatometer

LABORATORY TESTS

SG	Specific Gravity	S	Sieve Analysis	W	Water Content
H	Hydrometer	P	Field Permeability	K	Lab Permeability
W_p	Plastic Limit	W_l	Liquid Limit	I_p	Plasticity Index
GSA	Grain Size Analysis	C	Consolidation	UNC	Unconfined compression

FILE No: 3211G

BOREHOLE No. 1



Client: **James Gies Construction Ltd. c/o Meritech Engineering**
Project: **Proposed Subdivision**
Location: **1949 Gerber Road, Wellesley, Ontario**

EQUIPMENT DATA

Machine: **Diedrich D-70T**
Method: **Hollow Stem Augers**
Size: **108 mm I.D.**
Date: **Jul 02 - 26 TO Jul 02 - 26**

SOIL LITHOLOGY				SAMPLE			SHEAR STRENGTH (kPa)				WATER CONTENT (%)			WELL DATA	DEPTH (m)	REMARKS	
ELEV./ DEPTH (m)	DESCRIPTION	DEPTH (m)	SYMBOL	SAMPLE ID	TYPE	N-VALUE	FIELD VANE: Peak ⊗ Rem. × LAB TEST: Unc. ■ P.P. □ 50 100 150 200				WATER CONTENT (%) W _p W W _L						
							PENETRATION RESISTANCE STANDARD ● DYN. CONE ○ 20 40 60 80				10 20 30						
Ground Elevation: 356.32 m																	
355.72 0.60	loose, dark brown FILL silty sand (ploughed surface) some topsoil, trace clay occ. rootlets, moist	0.5		1	SS	8	●						○				
	stiff to very stiff, brown SILTY CLAY trace gravel, trace sand DTPL to APL ----- grey	1.0		2	SS	11	●		□				○				
		1.5															
		2.0		3	SS	14	●		□						○		
		2.5															
		3.0		4	SS	13	●		□						○		
351.77 4.55	End of Borehole	3.5		5	SS	18	●		□					○			
		4.0															
		4.5		6	SS	17	●										
		5.0															
		5.5															
		6.0															
		6.5															
		7.0															
		7.5															
		8.0															
		8.5															
																borehole open and dry upon removal of augers; auger refusal at 4.55 mbgs	

PROJECT MANAGER: **MM/YC**

**CHUNG & VANDER DOELEN
ENGINEERING LTD.**

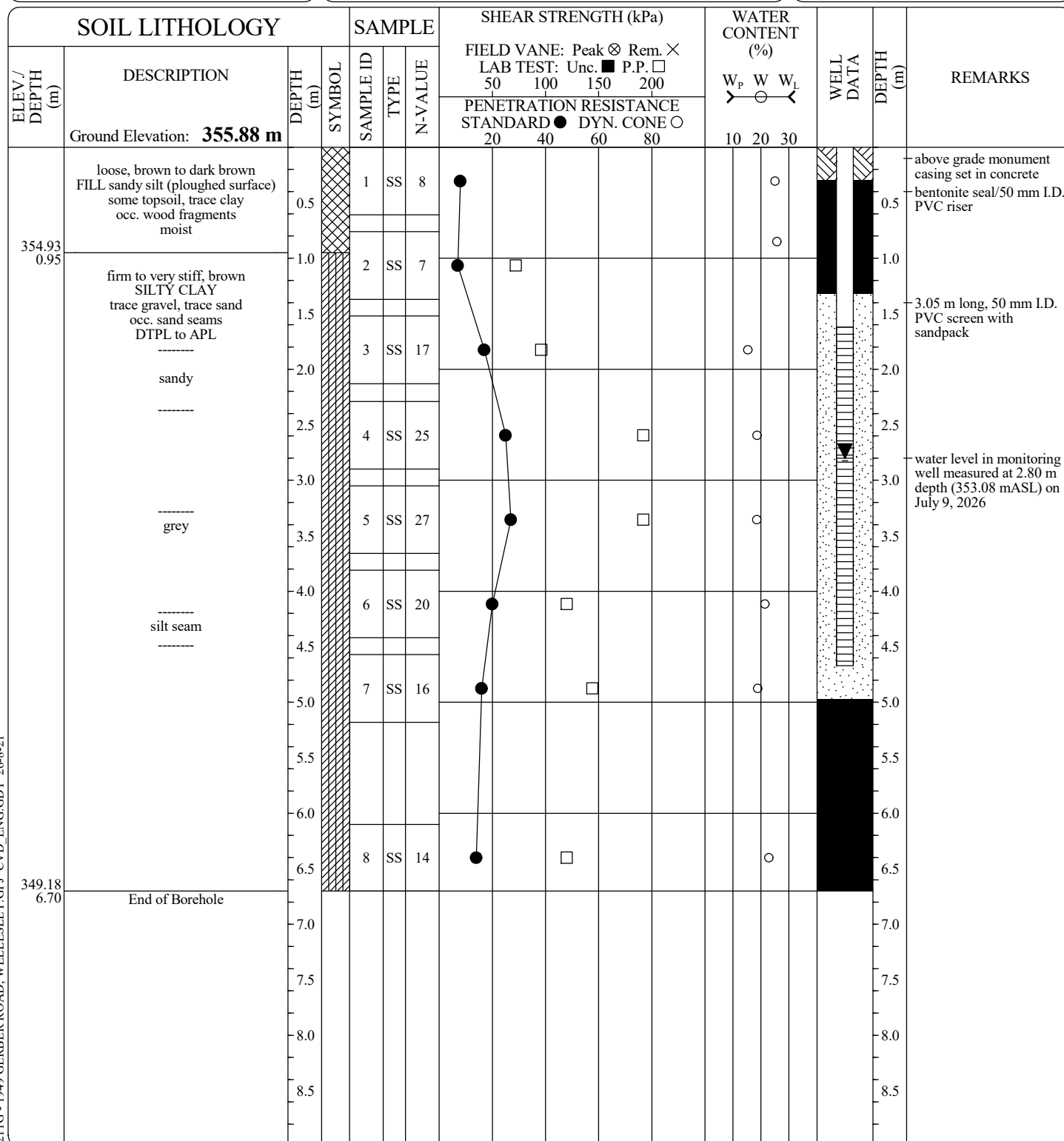
311 Victoria Street North
Kitchener, Ontario N2H 5E1
ph. (519) 742-8979, fx. (519) 742-7739

FILE No: 3211G**BOREHOLE No. 2**

Client: **James Gies Construction Ltd. c/o Meritech Engineering**
 Project: **Proposed Subdivision**
 Location: **1949 Gerber Road, Wellesley, Ontario**

EQUIPMENT DATA

Machine: **Diedrich D-70T**
 Method: **Hollow Stem Augers**
 Size: **108 mm I.D.**
 Date: **Jul 02 - 26 TO Jul 02 - 26**

PROJECT MANAGER: **MM/YC**

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ENGINEERING LTD.**

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 Kitchener, Ontario N2H 5E1
 ph. (519) 742-8979, fx. (519) 742-7739

FILE No: 3211G**BOREHOLE No. 3**

Client: **James Gies Construction Ltd. c/o Meritech Engineering**
 Project: **Proposed Subdivision**
 Location: **1949 Gerber Road, Wellesley, Ontario**

EQUIPMENT DATA

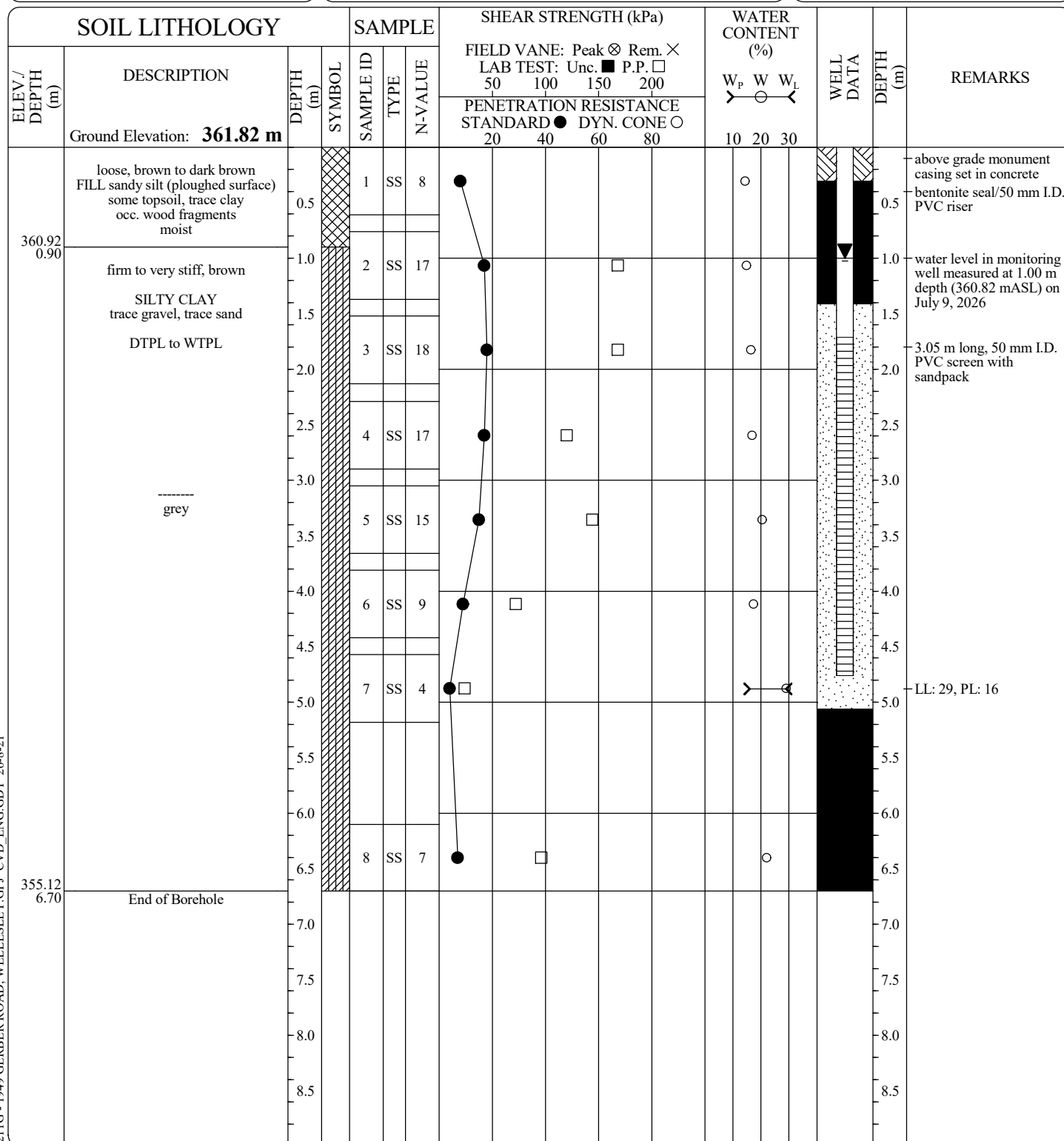
Machine: **Diedrich D-70T**
 Method: **Solid Stem Augers**
 Size: **152 mm O.D.**
 Date: **Jul 03 - 26 TO Jul 03 - 26**

SOIL LITHOLOGY				SAMPLE			SHEAR STRENGTH (kPa)				WATER CONTENT (%)			WELL DATA	DEPTH (m)	REMARKS
ELEV./ DEPTH (m)	DESCRIPTION	DEPTH (m)	SYMBOL	SAMPLE ID	TYPE	N-VALUE	FIELD VANE: Peak ⊗ Rem. ×				LAB TEST: Unc. ■ P.P. □					
							50 100 150 200									
							PENETRATION RESISTANCE									
							STANDARD ● DYN. CONE ○				W _p W W _L					
							20 40 60 80				10 20 30					
359.50 0.90	loose, brown to dark brown FILL sandy silt (ploughed surface) some topsoil trace clay moist	0.5		1	SS	7	●						○			
	firm to very stiff, brown SILTY CLAY trace gravel, trace sand DTPL to WTPL ----- grey ----- occ. sand seams	1.0		2	SS	9	●		□				○			
1.5																
2.0				3	SS	19		●		□			○			
2.5				4	SS	17		●		□			○			
3.0																
3.5				5	SS	9	●		□				○			
4.0				6	SS	9	●		□					○		
4.5																
		5.0		7	SS	6	●		□					○		
		5.5														
		6.0														
		6.5		8	SS	17		●		□				○		
353.70 6.70	End of Borehole	7.0														
		7.5														
		8.0														
		8.5														

PROJECT MANAGER: **MM/YC**

**CHUNG & VANDER DOELEN
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FILE No: 3211G**BOREHOLE No. 4**Client: **James Gies Construction Ltd. c/o**Project: **Meritech Engineering**Location: **Proposed Subdivision**Location: **1949 Gerber Road, Wellesley, Ontario****EQUIPMENT DATA**Machine: **Diedrich D-70T**Method: **Hollow Stem Augers**Size: **108 mm I.D.**Date: **Jul 02 - 26 TO Jul 02 - 26**PROJECT MANAGER: **MM/YC****CHUNG & VANDER DOELEN
ENGINEERING LTD.**311 Victoria Street North
Kitchener, Ontario N2H 5E1
ph. (519) 742-8979, fx. (519) 742-7739

BOREHOLE No. 5

Project: **Proposed Subdivision**

Location: **1949 Gerber Road, Wellesley, Ontario**

EQUIPMENT DATA

Machine: **Diedrich D-70T**
Method: **Hollow Stem Augers**
Size: **108 mm I.D.**
Date: **Jul 02 - 26 TO Jul 02 - 26**

[illegible]

PROJECT MANAGER: MM/YC

CHUNG & VANDER DOELEN
ENGINEERING LTD.

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Kitchener, Ontario N2H 5E1
ph. (519) 742-8979, fx. (519) 742-7739

CVD BOREHOLE (2017) 3211G - 1949 GERBER ROAD, WELLESLEY.GPJ CVD ENG.GDT 26-8-21

FILE No: 3211G**BOREHOLE No. 6**

Client: **James Gies Construction Ltd. c/o Meritech Engineering**
 Project: **Proposed Subdivision**
 Location: **1949 Gerber Road, Wellesley, Ontario**

EQUIPMENT DATA

Machine: **Diedrich D-70T**
 Method: **Hollow Stem Augers**
 Size: **108 mm I.D.**
 Date: **Jul 02 - 26 TO Jul 02 - 26**

SOIL LITHOLOGY				SAMPLE			SHEAR STRENGTH (kPa)				WATER CONTENT (%)			WELL DATA	DEPTH (m)	REMARKS	
ELEV./ DEPTH (m)	DESCRIPTION	DEPTH (m)	SYMBOL	SAMPLE ID	TYPE	N-VALUE	FIELD VANE: Peak ⊗ Rem. × LAB TEST: Unc. ■ P.P. □ 50 100 150 200				WATER CONTENT (%) W _p W W _L						
							PENETRATION RESISTANCE STANDARD ● DYN. CONE ○ 20 40 60 80				10 20 30						
Ground Elevation: 362.70 m																	
361.80 0.90	loose, brown to dark brown FILL sandy silt (ploughed surface) some topsoil trace clay moist	0.5		1	SS	6	●						○				
	firm to very stiff, brown SILTY CLAY trace sand occ. sand seams DTPL to APL ----- grey	1.0		2	SS	21	●				■		○				
		1.5															
		2.0		3	SS	20	●					■					
		2.5															
		3.0		4	SS	15	●				□			○			
		3.5															
		4.0		5	SS	23	●				□			○			
4.5																	
		5.0		6	SS	23	●			□			○				
		5.5															
		6.0															
		6.5		7	SS	14	●			□			○				
		6.70															
356.00 6.70	End of Borehole			8	SS	6	●		□				○				
		7.0														borehole open and dry upon removal of augers	
		7.5															
		8.0															
		8.5															

borehole open and dry
upon removal of augers

PROJECT MANAGER: **MM/YC**

**CHUNG & VANDER DOELEN
ENGINEERING LTD.**

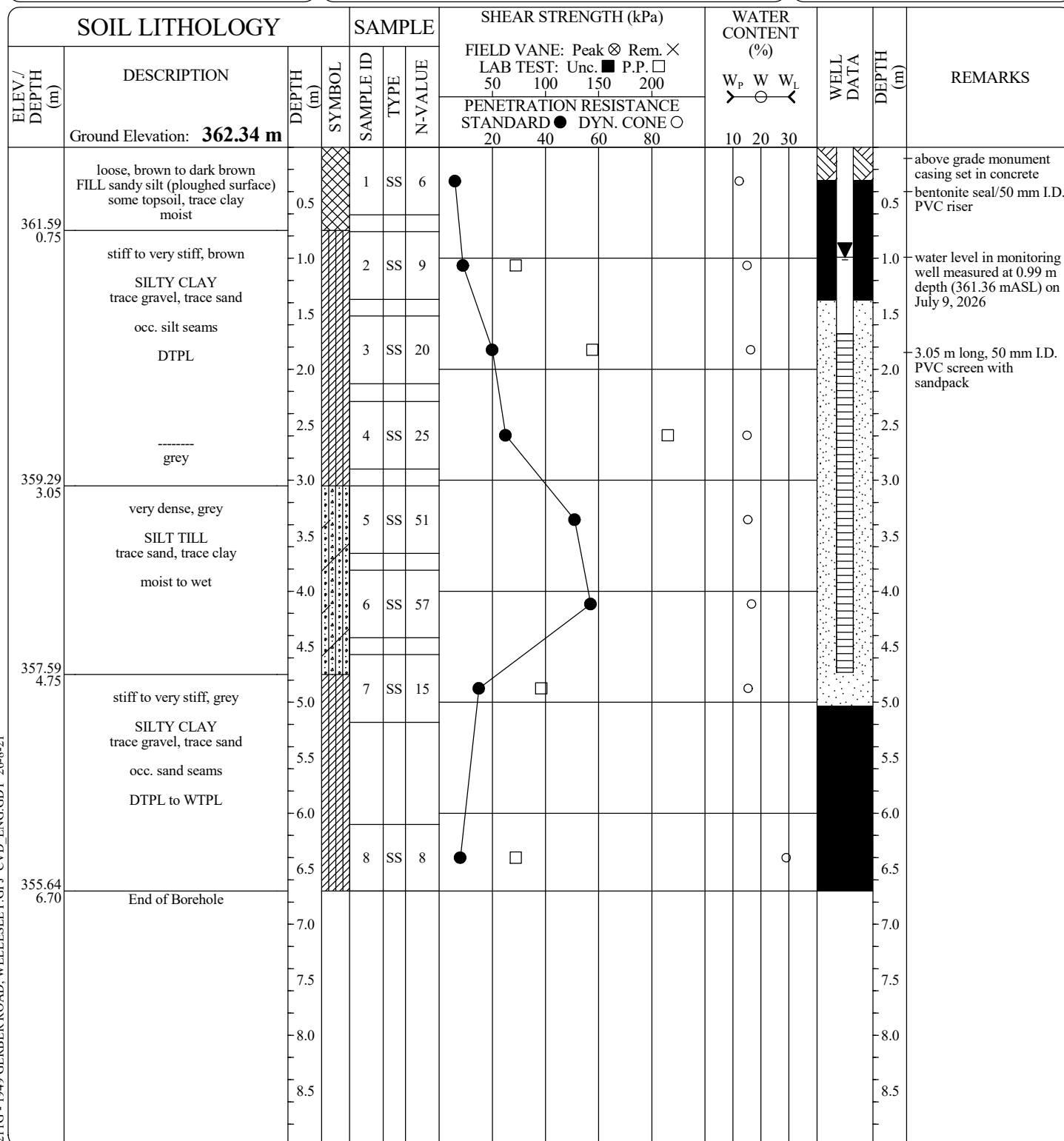
311 Victoria Street North
 Kitchener, Ontario N2H 5E1
 ph. (519) 742-8979, fx. (519) 742-7739

FILE No: 3211G**BOREHOLE No. 7**

Client: **James Gies Construction Ltd. c/o Meritech Engineering**
 Project: **Proposed Subdivision**
 Location: **1949 Gerber Road, Wellesley, Ontario**

EQUIPMENT DATA

Machine: **Diedrich D-70T**
 Method: **Solid Stem Augers**
 Size: **152 mm O.D.**
 Date: **Jul 03 - 26 TO Jul 03 - 26**

PROJECT MANAGER: **MM/YC**

**CHUNG & VANDER DOELEN
ENGINEERING LTD.**

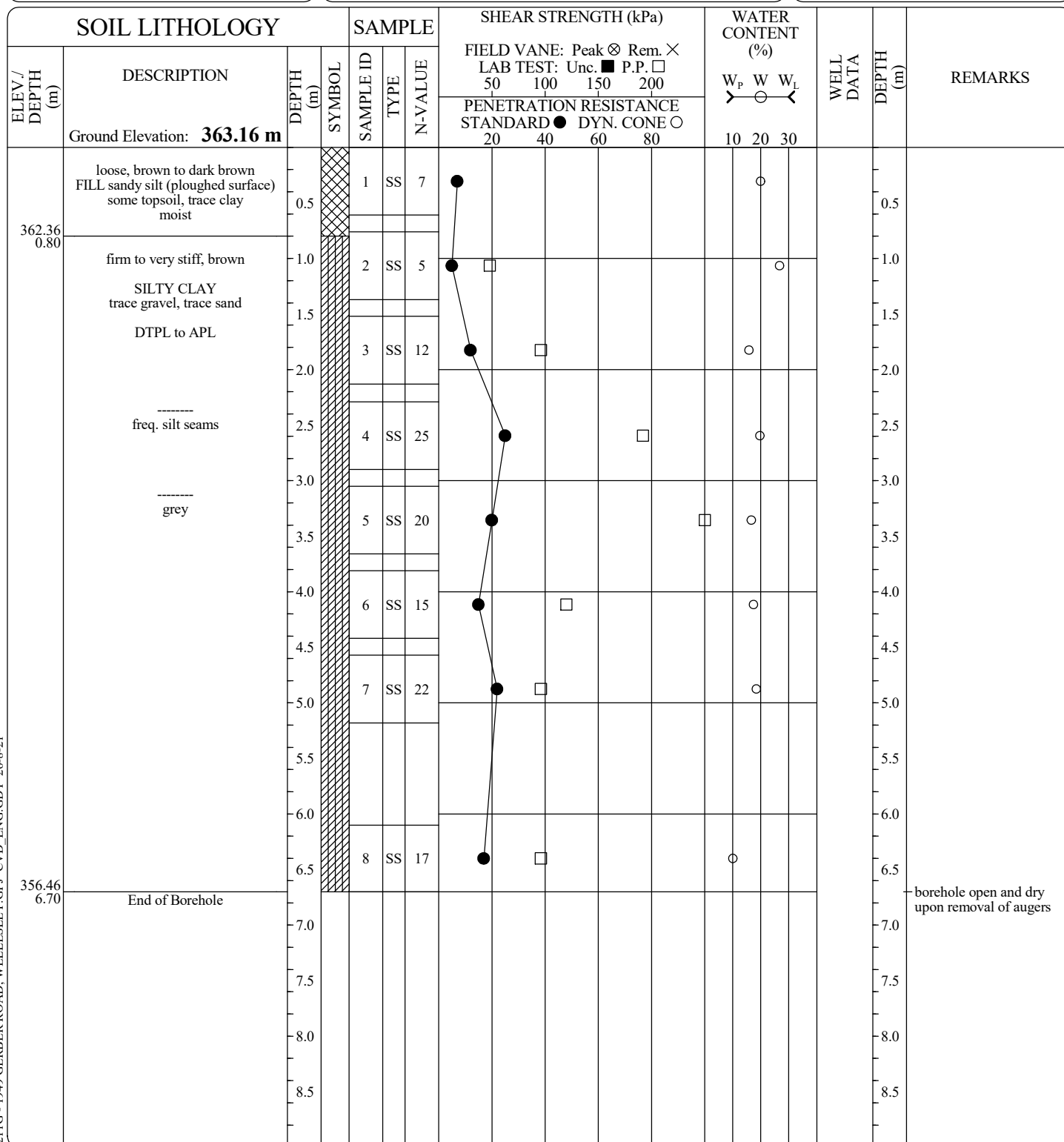
311 Victoria Street North
 Kitchener, Ontario N2H 5E1
 ph. (519) 742-8979, fx. (519) 742-7739

FILE No: 3211G**BOREHOLE No. 8**

Client: **James Gies Construction Ltd. c/o Meritech Engineering**
 Project: **Proposed Subdivision**
 Location: **1949 Gerber Road, Wellesley, Ontario**

EQUIPMENT DATA

Machine: **Diedrich D-70T**
 Method: **Solid Stem Augers**
 Size: **152 mm O.D.**
 Date: **Jul 03 - 26 TO Jul 03 - 26**

PROJECT MANAGER: **MM/YC**

**CHUNG & VANDER DOELEN
ENGINEERING LTD.**

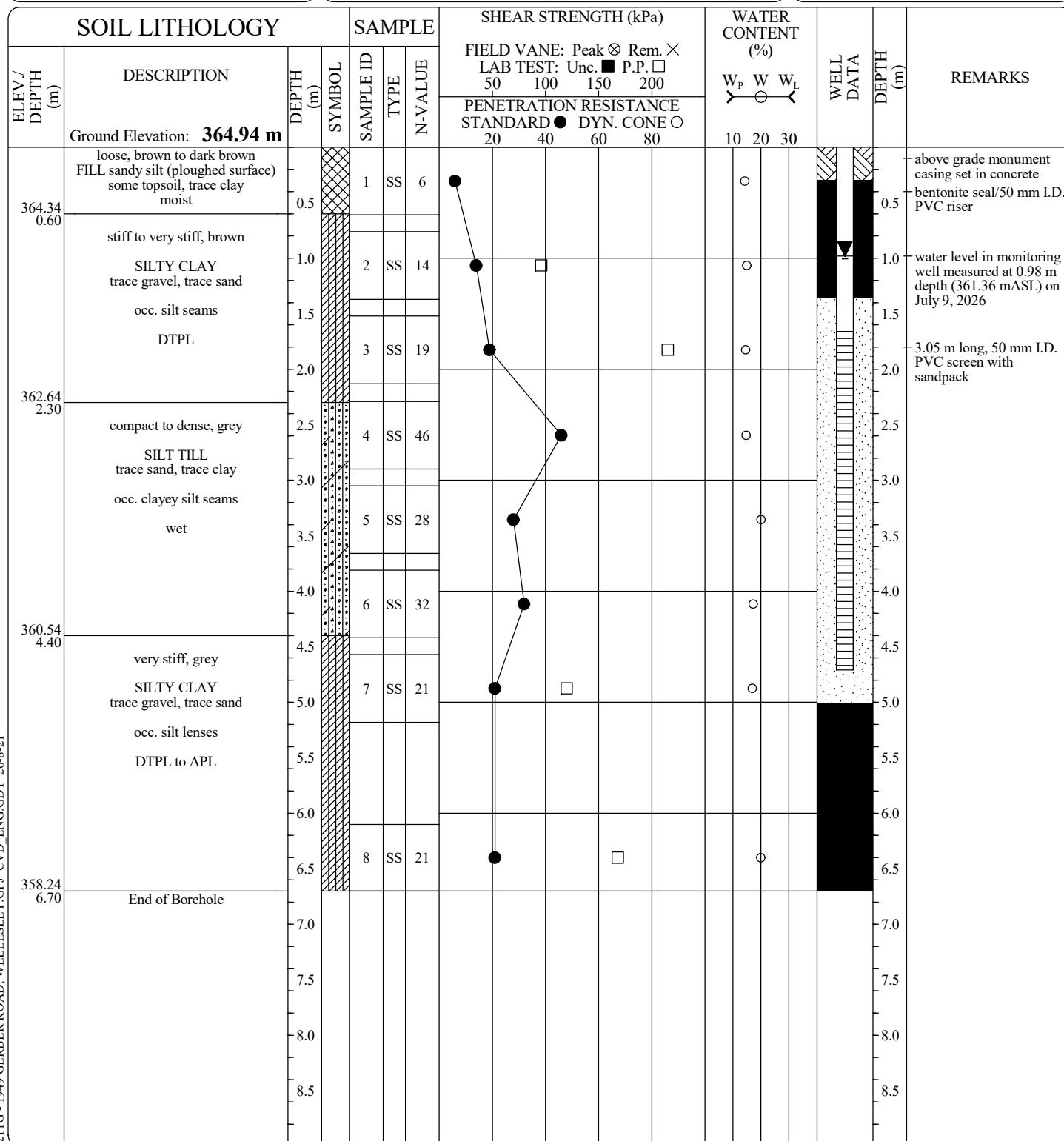
311 Victoria Street North
 Kitchener, Ontario N2H 5E1
 ph. (519) 742-8979, fx. (519) 742-7739

FILE No: 3211G**BOREHOLE No. 9**

Client: **James Gies Construction Ltd. c/o Meritech Engineering**
 Project: **Proposed Subdivision**
 Location: **1949 Gerber Road, Wellesley, Ontario**

EQUIPMENT DATA

Machine: **Diedrich D-70T**
 Method: **Solid Stem Augers**
 Size: **152 mm O.D.**
 Date: **Jul 03 - 26 TO Jul 03 - 26**

PROJECT MANAGER: **MM/YC**

**CHUNG & VANDER DOELEN
ENGINEERING LTD.**

311 Victoria Street North
 Kitchener, Ontario N2H 5E1
 ph. (519) 742-8979, fx. (519) 742-7739

FILE No: 3211G**BOREHOLE No. 10**

Client: **James Gies Construction Ltd. c/o Meritech Engineering**
 Project: **Proposed Subdivision**
 Location: **1949 Gerber Road, Wellesley, Ontario**

EQUIPMENT DATA

Machine: **Diedrich D-70T**
 Method: **Solid Stem Augers**
 Size: **152 mm O.D.**
 Date: **Jul 03 - 26 TO Jul 03 - 26**

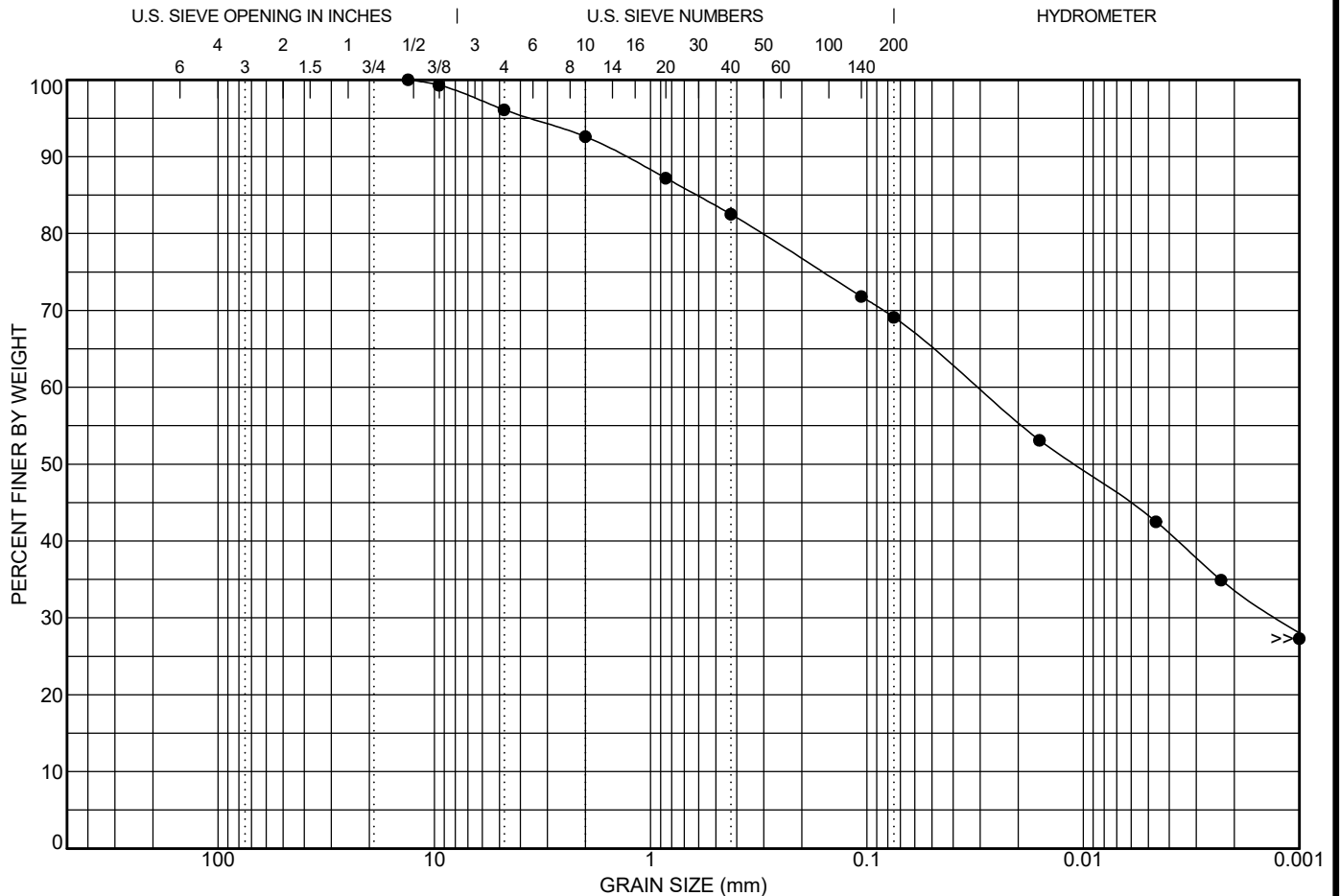
SOIL LITHOLOGY				SAMPLE			SHEAR STRENGTH (kPa)				WATER CONTENT (%)			WELL DATA	DEPTH (m)	REMARKS	
ELEV./ DEPTH (m)	DESCRIPTION	DEPTH (m)	SYMBOL	SAMPLE ID	TYPE	N-VALUE	FIELD VANE: Peak ⊗ Rem. × LAB TEST: Unc. ■ P.P. □ 50 100 150 200				W _P W W _L ↗ ○ ↖						
							PENETRATION RESISTANCE STANDARD ● DYN. CONE ○ 20 40 60 80										
											10 20 30						
363.18 0.60	loose, brown to dark brown FILL sandy silt (ploughed surface) some topsoil, trace clay moist	0.5		1	SS	6	●						○				
	stiff to very stiff, brown SILTY CLAY trace gravel trace sand (to sandy above 1.35 m) occ. silt seams DTPL to APL ----- grey	1.0		2	SS	13	●				■		○				
		1.5															
		2.0		3	SS	18	●			■			○				
		2.5															
		3.0															
		3.5		5	SS	12	●			■				○			
		4.0															
		4.5		6	SS	31	●			■				○			
		5.0															
		5.5		7	SS	19	●			■				○			
	6.0																
357.08 6.70	End of Borehole	6.5		8	SS	8	●		■				○				

← borehole cave-in to 5.5± mbs upon removal of augers

PROJECT MANAGER: **MM/YC**

**CHUNG & VANDER DOELEN
ENGINEERING LTD.**

311 Victoria Street North
 Kitchener, Ontario N2H 5E1
 ph. (519) 742-8979, fx. (519) 742-7739



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

LL	PL	PI	Cc	Cu	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
					13.2	0.031	0.001		3.9	27.0	69.1	

Date: Jul. 27 - 2026
Client: James Gies Construction Ltd.
Contractor: c/o Meritech Engineering
Source:
Sampled From: BH 2 - SA 3; 1.50 to 2.10 m depth
Sample No.: 2-3
Date Sampled: Jul. 02 - 2026
Sampled By: RP
Lab No.: 812
Date Tested: Jul. 27 - 2026
Type of Material: Sandy Silty Clay, trace gravel

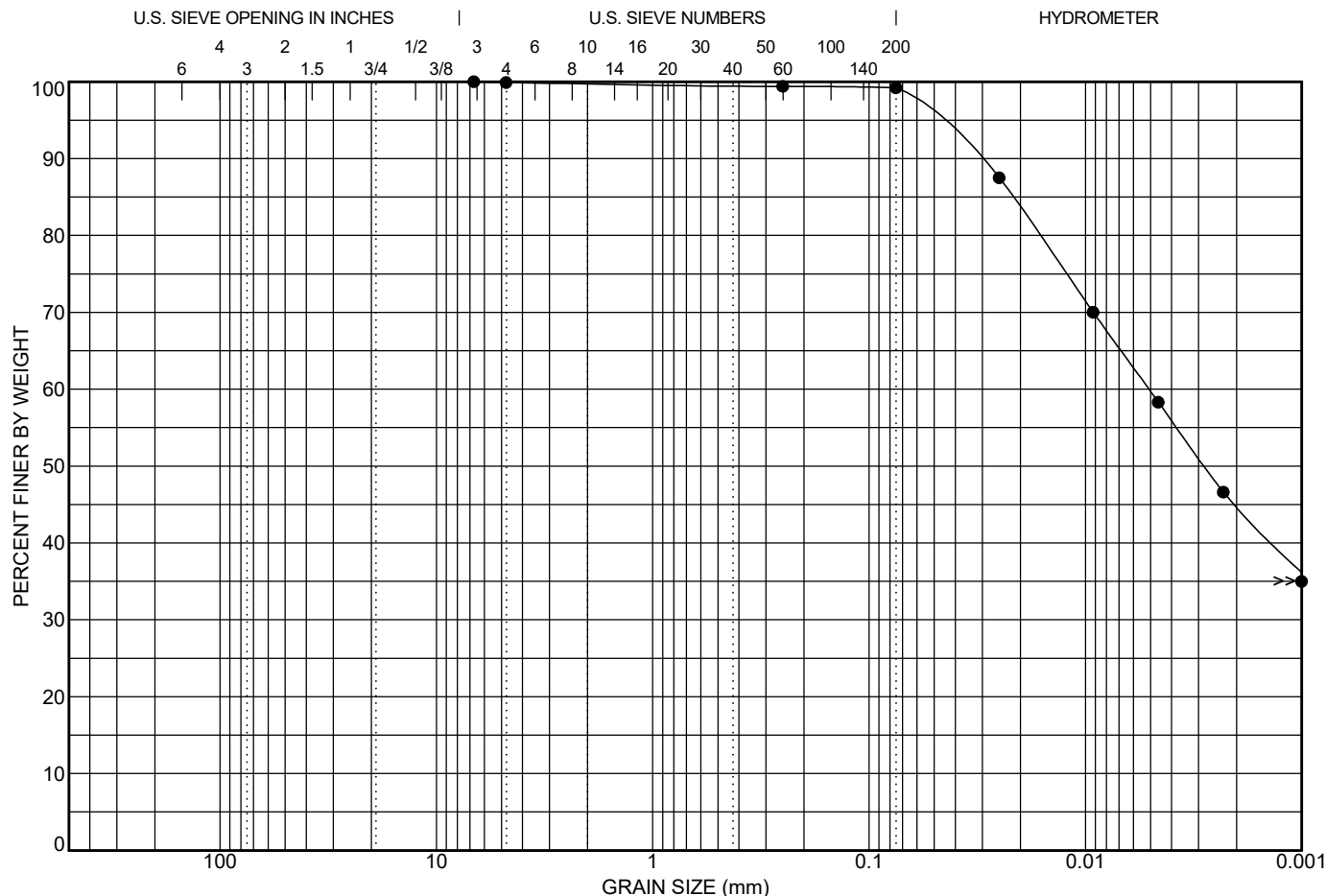
Sieve Size (mm)	Percent Passing	No Specifications



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 Kitchener, Ontario N2H 5E1
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 e-mail: info@cvdengineering.com

GRAIN SIZE DISTRIBUTION

Project: Proposed Subdivision
Location: 1949 Gerber Road, Wellesley, Ontario
File No.: 3211G
Enclosure No.: 11



COBBLES	GRAVEL		SAND			SILT OR CLAY
	coarse	fine	coarse	medium	fine	

LL	PL	PI	Cc	Cu	D100	D60	D30	D10	%Gravel	%Sand	%Silt	%Clay
29	16				6.7	0.005			0.1	0.7	99.2	

Date: Jul. 27 - 2026
Client: James Gies Construction Ltd.
Contractor: c/o Meritech Engineering
Source:
Sampled From: BH 4 - SA 7; 4.55 to 5.15 m depth
Sample No.: 4-7
Date Sampled: Jul. 02 - 2026
Sampled By: RP
Lab No.: 815
Date Tested: Jul. 27 - 2026
Type of Material: Silty Clay, trace sand

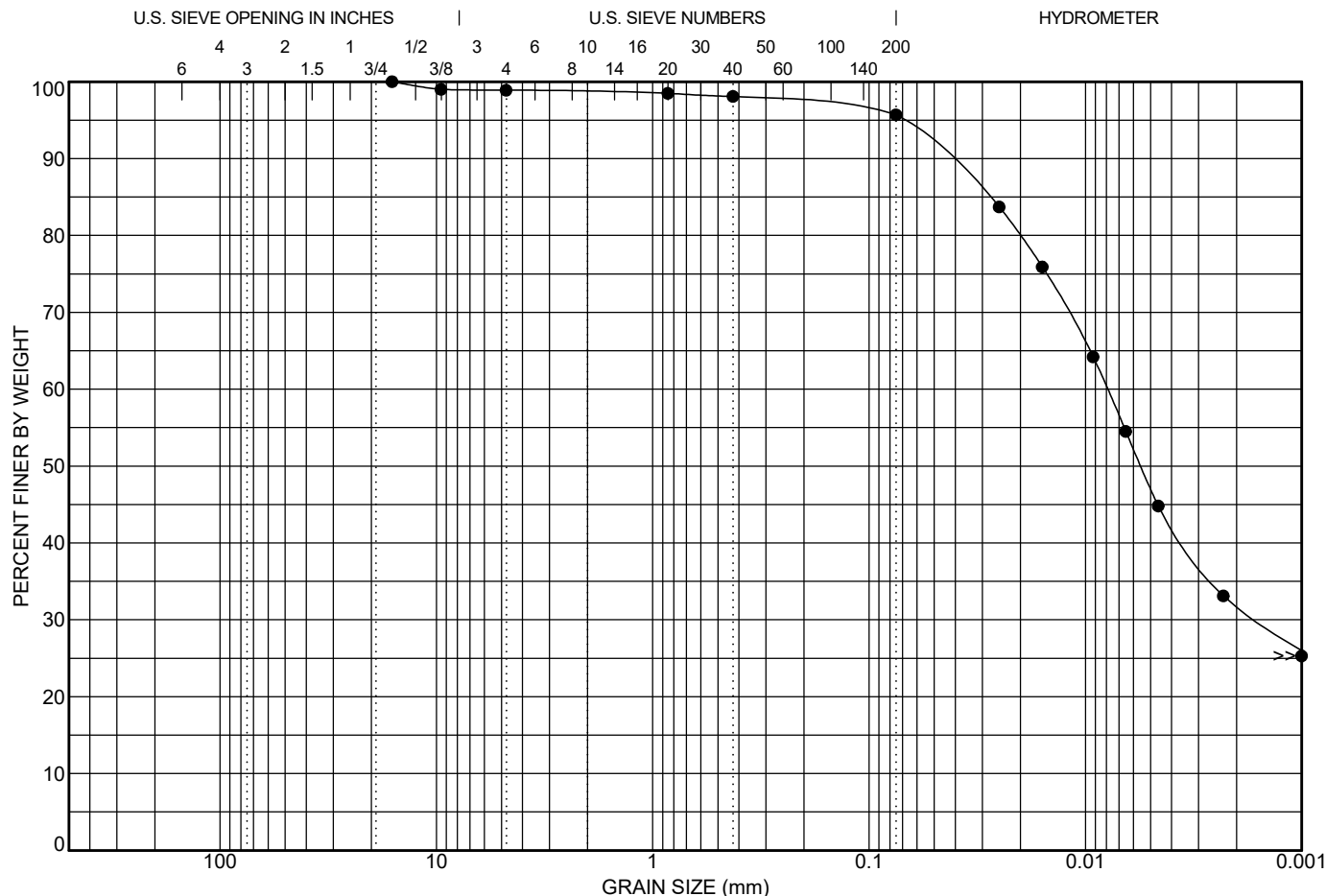
Sieve Size (mm)	Percent Passing	No Specifications

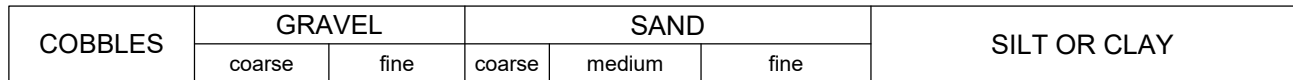


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GRAIN SIZE DISTRIBUTION

Project: Proposed Subdivision
Location: 1949 Gerber Road, Wellesley, Ontario
File No.: 3211G
Enclosure No.: 12





Date:	Jul. 27 - 2026	Sieve Size (mm)	Percent Passing	No Specifications
Client:	James Gies Construction Ltd.			
Contractor:	c/o Meritech Engineering			
Source:				
Sampled From:	BH 9 - SA 4; 2.30 to 2.90 m depth			
Sample No.:	9-4			
Date Sampled:	Jul. 03 - 2026			
Sampled By:	RP			
Lab No.:	814			
Date Tested:	Jul. 27 - 2026			
Type of Material:	Silt Till, trace sand, trace clay			



GRAIN SIZE DISTRIBUTION

Project: Proposed Subdivision

Location: 1949 Gerber Road, Wellesley, Ontario

File No.: 3211G

Enclosure No.: 14