



Hydrogeological Assessment

Glenelg Phase 3

Dundalk Village Two Inc.

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Revision: 4

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3	May 19, 2023	JV/CE	MV	MV
4	May 25, 2023	JV/CE	AM	MV



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1.0 Introduction

SLR Consulting (Canada) Ltd. (SLR) was retained by Dundalk Village Two Inc. to conduct a Hydrogeological Assessment in support of a Draft Plan of Subdivision and future Site Plan for the proposed Dundalk Northeast residential subdivision located in Dundalk, Ontario (referred to as the "Study Area"). The Study Area includes two residential properties (772350 and 772288 Hwy 10), as well as one currently undeveloped property located on Lot 225, Concession 1 (**Figure 1**). These lands fall within a larger area currently subject to an approved Ministerial Zoning Order (MZO). The development of these subject lands will be phased.

Although the current submission is for the western portion of the property, known as Glenelg Phase 3 development (hereinafter referred to as the "Site"), this report provides details of the entire Dundalk Northeast residential subdivision. It is understood that the proposed Glenelg Phase 3 development will contain single detached and semi-detached lots, as well as townhouse units. There will also be areas of open space, a stormwater management (SWM) pond, a school, and a park. The overall development is expected to have complete municipal servicing, and paved access / site roadways.

1.1 Study Objectives

The objective of the Hydrogeological Assessment is to characterize the hydrogeological conditions across the Study Area, identify any hydrogeological constraints to development and potential impacts of development on natural heritage features, and provide guidance on how to mitigate these impacts. This is completed through a review of relevant geologic and hydrogeologic information available through public records for the area or collected through borehole drilling and groundwater monitoring and sampling efforts. This report has been prepared for submission to the Township of Southgate, Bruce County, Saugeen Valley Conservation Authority (SVCA), and Grand River Conservation Authority (GRCA) to support the Draft Plan of Subdivision and future Site Plan Approval for the proposed development.

The specific objectives are summarized below:

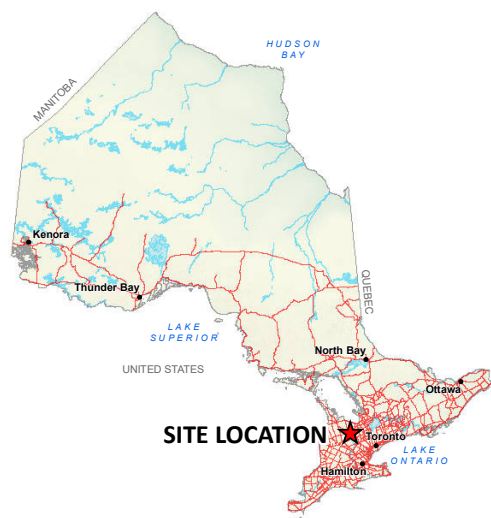
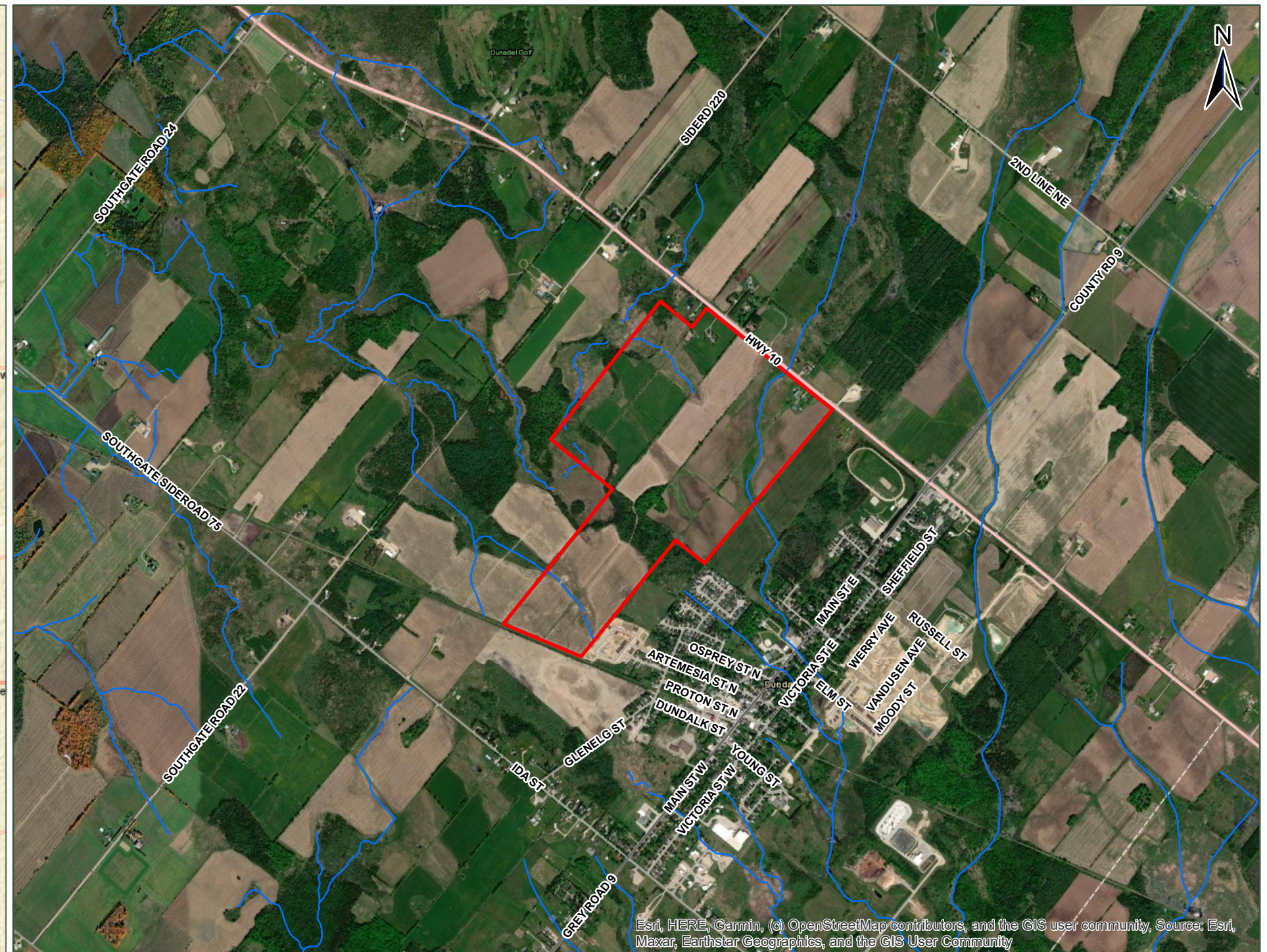
- Document the geology, hydrostratigraphy, groundwater flow, and groundwater quality across the Study Area.
- Evaluate potential impacts with respect to Source Protection Plans
- Assess overall potential impacts of the proposed development on the groundwater flow system.

1.2 Report Organization

This Hydrogeology Assessment report has been organized into eight sections following this introduction. Section 2 provides an overview of background information related to the development, previous investigations and regional geology and hydrogeology. Section 3 provides the field methodologies utilized during the assessment. Section 4 presents a review of the site-specific geological and hydrogeological conditions. Section 5 provides an assessment of the potential impacts of development on shallow groundwater features, potable wells, and surface water features. Section 6 presents the conclusions and recommendations, Section 7 provides closing comments, and Section 8 presents the report references.

All Figures referenced throughout the report are presented within the text. Appendices A through E present the: Development Plan; Borehole Logs; Groundwater Data; Hydraulic Conductivity Analyses; and MECP Water Well Records.





NOTES:
SITE BOUNDARY; SCHAEFFER DZALDOV BENNETT LTD.; 2022

LEGEND
[Red Outline] SITE BOUNDARY



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DUNDALK VILLAGE TWO INC.
GLENLG PHASE 3
DUNDALK, ONTARIO, CANADA

HYDROGEOLOGICAL ASSESSMENT

SITE LOCATION

SLR FIGURE NO:
1

2.0 Background

2.1 Proposed Development

Although this Hydrogeological Assessment discusses hydrogeological conditions across the entire Dundalk Northeast residential subdivision, the current phase of the development only includes the western most parcel (Lots 225 and 226, Concession 2) known as Glenelg Phase 3. The proposed Glenelg Phase 3 development measures approximately 33 ha in size, and includes 291 single detached lots, 24 semi-detached lots, and 74 townhouse units. It also includes a 1.56 ha SWM pond in the western portion of the Site boundary, walkways, trails, open space, and a park. A copy of the proposed development plan is provided in **Appendix A**.

2.2 Site Description

The proposed Dundalk Northeast residential subdivision lies on lands legally described as Lots 223, 224, 225, 226 and 227, Concessions 1 and 2 Southwest of the Toronto and Sydenham Road, Geographic Township of Proton, Township of Southgate, County of Grey. The proposed Glenelg Phase 3 development lies on the western most parcel of the Study Area on Lots 225 and 226, Concession 2.

The Study Area is bounded by Highway 10 in the northeast, Grey Country CP Rail Trail to the southwest, and is found approximately 600 m northwest of Main St E and approximately 600 m northeast of Ida Street. The area surrounding the property is occupied by agricultural lands and rural residential, with a woodlot and associated wetland along the northern portion of the Study Area.

2.3 Regional setting

2.3.1 Topography and Drainage

The Study Area is gently undulating with a gentle decrease in ground surface elevation from north to south. A topographic high of 532 metres above sea level (masl) is located near the north end of the Study Area, with a topographic low of 517 masl at the southwestern boundary and through the centre of the property near the woodlot and wetland area (**Figure 2**).

The Study Area is located on a drainage divide between the Saugeen River Watershed (SRW) and Grand River Watershed (GRW), which are governed by SVCA and GRCA, respectively. The undulating topography at the Study Area is attributed to the presence of several drumlins present on the property, with water generally draining between each drumlin. A number of small unnamed tributaries are present at the Study Area, two that drain towards the northwest (within the SRW), located at the north and south ends of the Study Area, and one that drains offsite towards the south (GRW) at the eastern portion of the Study Area within a wetland. There are also unevaluated wetlands located on the Study Area. An evaluation of the wetlands will be completed as part of the Environmental Impact Study (EIS), to be provided under separate cover.

2.3.2 Physiography

The Study Area lies within the Dundalk Till Plain physiographic region of Southern Ontario (Chapman and Putnam, 1984). The Dundalk Till Plain is a gently undulating, partially drumlinized and fluted surface, where the long axis of the drumlins are oriented in a southeastward direction. The Dundalk Till Plain supports extensive wetland complexes due to the presence of poorly drained depressions.

2.3.3 Regional Hydrostratigraphy

Surficial geology in the Dundalk area mainly consists of drumlinized till plains (Chapman and Putnam, 1984) comprised of the Elma Till (stony sandy silt to silt) and Catfish Creek Till (clayey silt and gravel,



Figure 3). There are isolated deposits of glaciolacustrine, glaciofluvial ice-contact and glaciofluvial outwash materials at surface and interbedded within the till plain. These sand and gravel deposits form the Dundalk Aquifer (Saugeen Valley Source Protection Area, 2015). The extent and thickness of the Dundalk Aquifer is unknown, due to a lack of reliable well records for the area. It is noted that static water levels within the Dundalk Aquifer are close to ground surface.

The overburden material is underlain by bedrock aquifer units comprised of the Guelph, Eramosa, Goat Island and Gasport Formations (Golder, 2018).

2.3.4 Source Protection

Source Protection Plans (SPPs) have been implemented throughout the region to protect drinking water resources, as mandated by the Ontario Clean Water Act (OCWA), 2006. The susceptibility of an aquifer to contamination is evaluated to identify the most vulnerable areas surrounding a drinking water source. There are four (4) types of vulnerable areas as defined by the Clean Water Act, 2006:

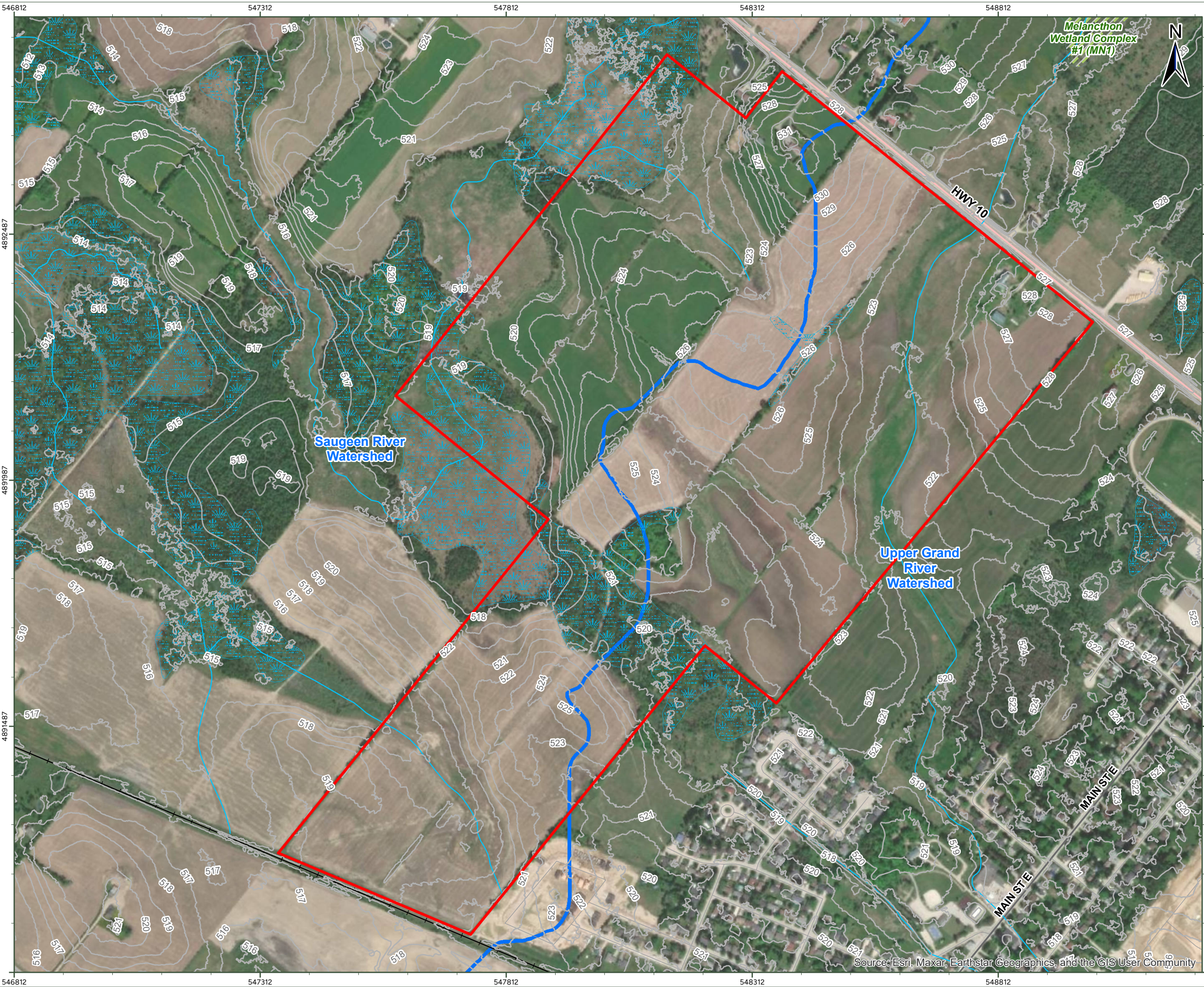
- Highly vulnerable aquifer (HVA): aquifers in which an external source is likely to have a significant adverse effect, this includes the land above the aquifer;
- Significant groundwater recharge area (SGRA): an area in which it is necessary to regulate or monitor drinking water threats that could affect the recharge of an aquifer;
- Surface water intake protection zone (IPZ): an area related to a surface water intake area in which it is necessary to regulate or monitor drinking water threats; and
- Wellhead protection area (WHPA): an area related to a wellhead, within which it is necessary to regulate or monitor drinking water threats.

The Site is within both the Saugeen Valley Source Protection Plan and the Grand River Source Protection Region. The Approved Source Protection Plans have identified the eastern and southeastern portions of the Site to be within either a WHPA-C or WHPA-D, representing a capture zone time frame of between 2 to 25 years (**Figure 4**). In addition, the majority of the wetlands across the Study Area are located within a SGRA (**Figure 5**).

Groundwater and surface water resources within a SGRA or WHPA are relatively sensitive to chemical or pathogen contamination and / or changes in groundwater recharge. Although precautionary measures to protect groundwater and surface water must be applied on all projects, additional protection measures and related documentation may be required where study areas fall within these zones. These include maintenance of the site-specific water balance and limitations on the presence of potential contamination sources such as gas stations and dry cleaner facilities. Based on the current development plan, the Site development does not include any commercial facilities. A site-specific water balance has been completed by Crozier & Associates Consulting Engineers (Crozier) to document pre-development recharge rates, and to look for opportunities to promote the recharge of clean water to meet or exceed pre-development recharge rates. The site-specific water balance is presented under separate cover.

It is important to note that delineation of the vulnerable areas based on regional mapping and do not consider site-specific conditions (i.e., type and thickness of the overlying material). The results of the drilling program indicates that the subsurface soils across the Study Area consists of sandy silt to silty sand till. The material was determined to have low hydraulic conductivity and therefore, the potential to impact deeper aquifers is limited.





LEGEND

- SITE BOUNDARY
- PERMANENT WATERCOURSE
- SURFACE CONTOUR (1M)
- CARTOGRAPHIC WETLAND (LAND INFORMATION ONTARIO, 2022)
- PROVINCIALLY SIGNIFICANT WETLAND (LAND INFORMATION ONTARIO, 2022)
- DRAINAGE DIVIDE

NOTES:
 SITE BOUNDARY; SCHAEFFER DZALDOV BENNETT LTD.; 2022
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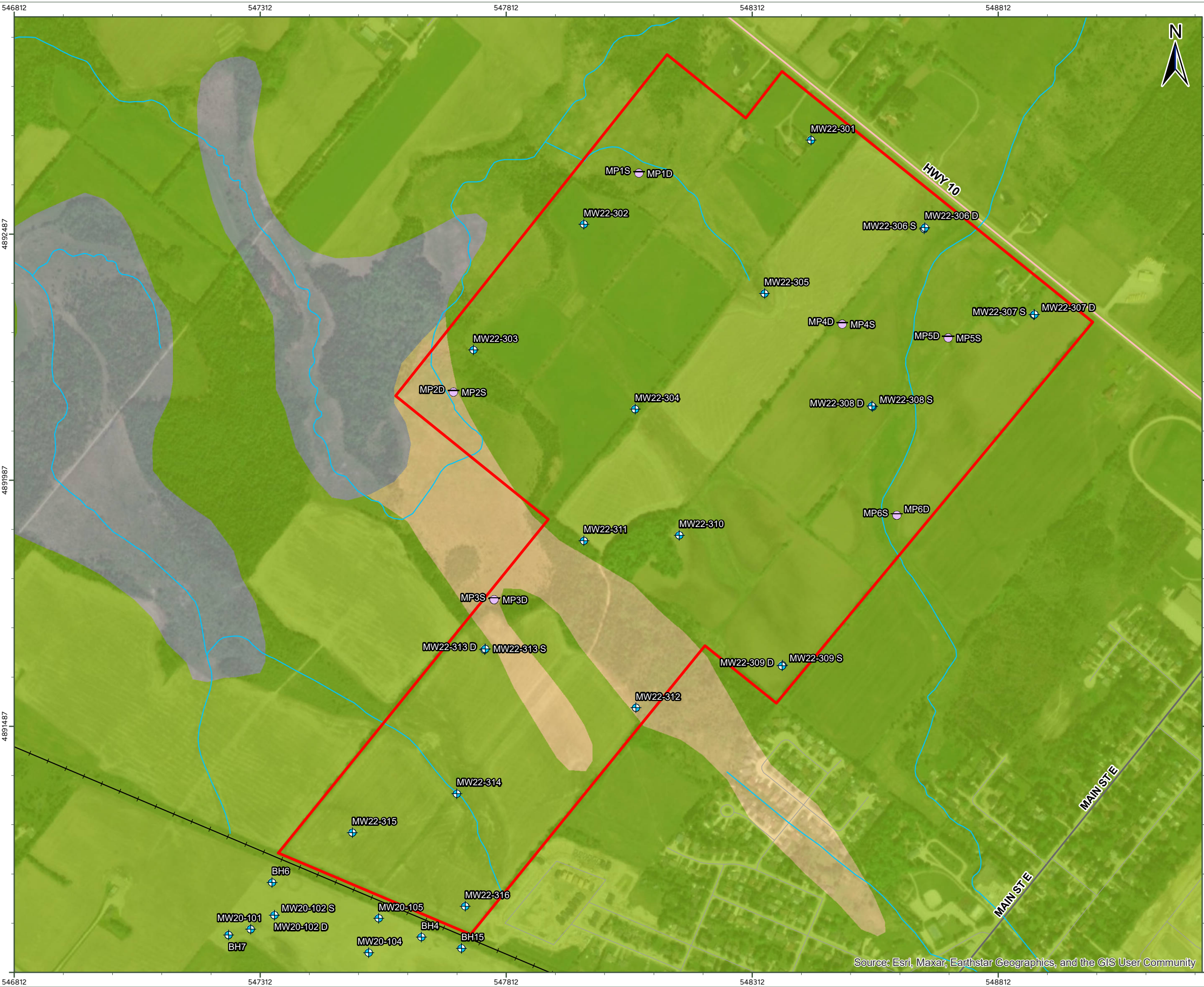
DUNDALK VILLAGE TWO INC.
 GLENELG PHASE 3
 DUNDALK, ONTARIO, CANADA

HYDROGEOLOGICAL ASSESSMENT

SITE TOPOGRAPHY

SLR FIGURE NO:
2

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- SITE BOUNDARY
- MONITORING WELL
- MINI-PIEZOMETER
- PERMANENT WATERCOURSE
- 5B: STONE-POOR, CARBONATE-DERIVED SILTY TO SANDY TILL
- 7A: SANDY DEPOSITS
- 20: ORGANIC DEPOSITS

NOTES:
SITE BOUNDARY; SCHAEFFER DZALDOV BENNETT LTD.; 2022
BASEDATA:
ONTARIO MINISTRY OF NATURAL RESOURCES, LAND INFORMATION
ONTARIO (LIO)
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ONTARIO GEOLOGICAL SURVEY

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GLENELG PHASE 3
DUNDALK, ONTARIO, CANADA

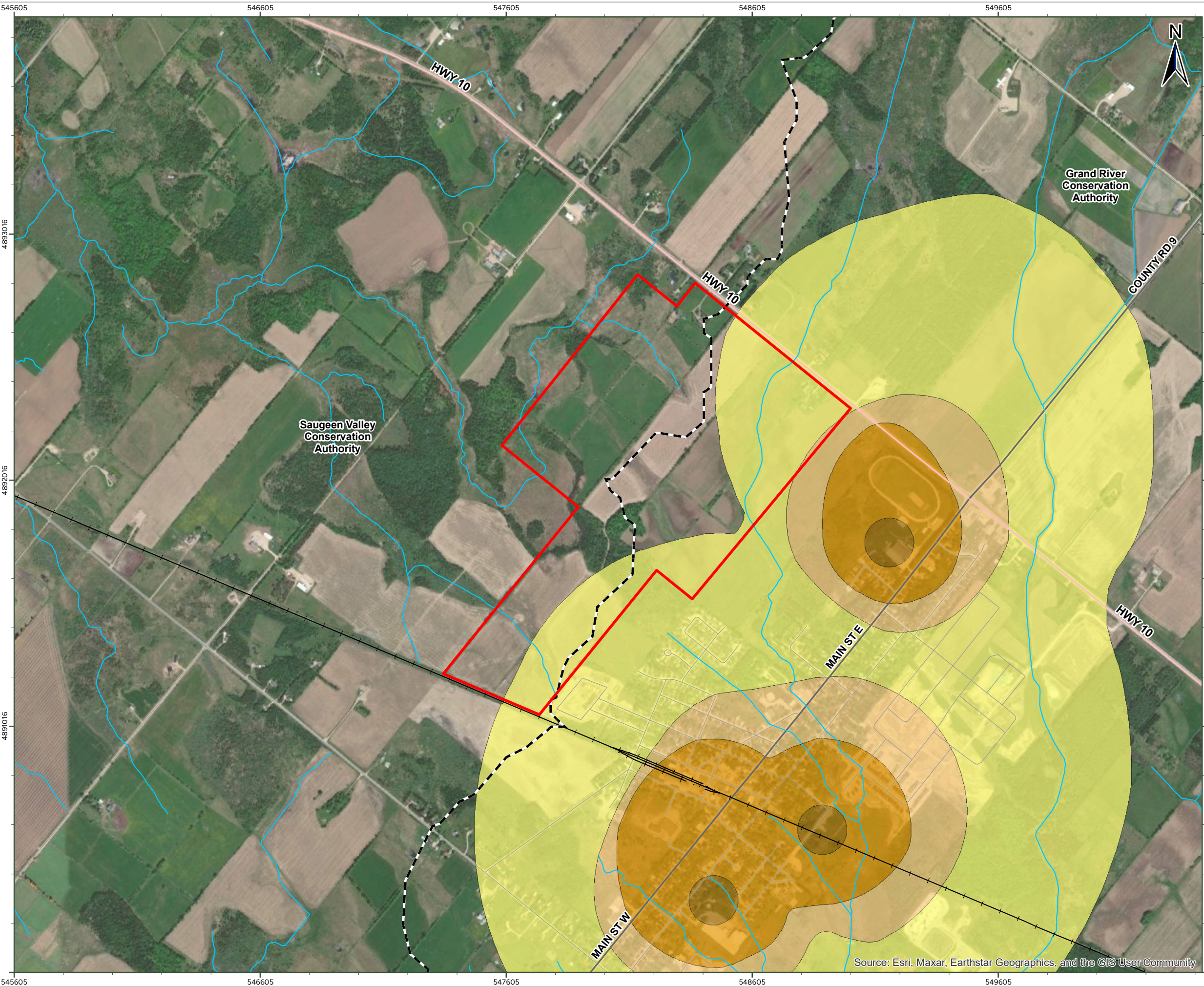
HYDROGEOLOGICAL ASSESSMENT

SURFICIAL GEOLOGY

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FIGURE NO:
3

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



LEGEND

- SITE BOUNDARY
- INTERMITTENT WATERCOURSE
- PERMANENT WATERCOURSE
- CONSERVATION AUTHORITY BOUNDARY

WELLHEAD PROTECTION AREA

- A
- B
- C
- D

NOTES:
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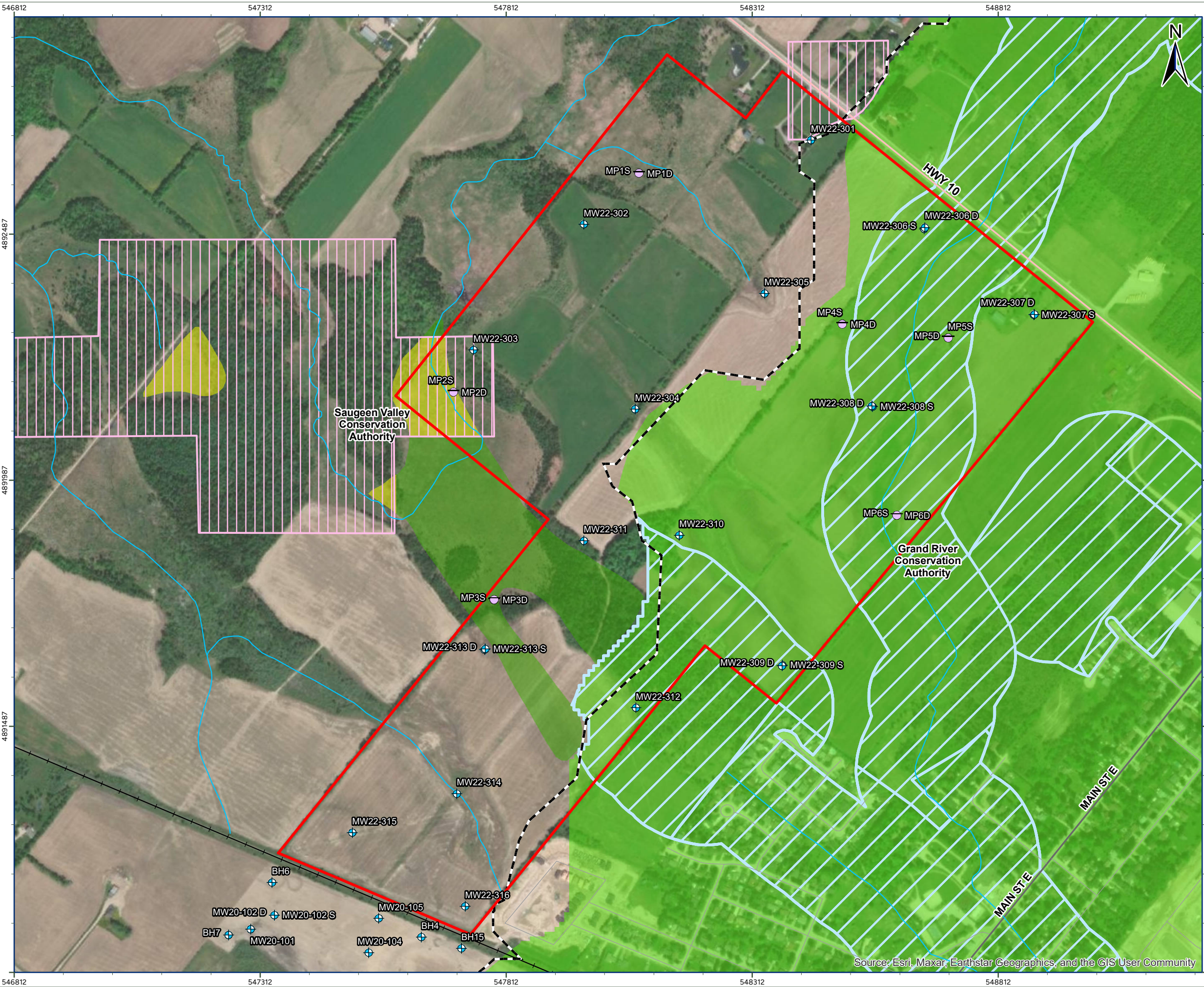
HYDROGEOLOGICAL ASSESSMENT

WELLHEAD PROTECTION AREA



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LEGEND

- SITE BOUNDARY
- + MONITORING WELL
- MINI-PIEZOMETER
- PERMANENT WATERCOURSE
- CONSERVATION AUTHORITY BOUNDARY
- INTAKE PROTECTION ZONE 3
- HIGHLY VULNERABLE AQUIFERS

SIGNIFICANT GROUNDWATER RECHARGE AREA

- 2
- 4
- 6

NOTES:
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 GLENELG PHASE 3
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HYDROGEOLOGICAL ASSESSMENT

SOURCE WATER PROTECTION

SLR FIGURE NO:
5

3.0 Methodology

3.1 Installation of New Monitors

Sixteen (16) boreholes were advanced at select locations across the Site between April and May 2022. The boreholes were drilled using a track-mounted drill rig with 9" outer diameter hollow stem auger. A record of geological and hydrogeological conditions was logged during drilling using a split spoon sampler at approximately 0.76 m intervals down to the targeted depth of the monitoring well. At each borehole location, the soil stratigraphy and classification, moisture content, colour, appearance, soil structure (presence of laminations, heterogeneity, soil weathering, etc.), and odour was noted in general accordance with the Unified Soil Classification System.

All borehole locations were completed as monitoring wells. At five (5) of these locations, nested monitoring wells consisting of a shallow and deep counterpart were installed. The monitoring wells were constructed with a 50-millimetre (mm) diameter polyvinyl chloride (PVC) well pipe. In general, the monitoring wells were constructed with No. 10 slotted PVC screen approximately 1.5 m long. Monitor MW22-306D was constructed with a 3.0 m long screen as it was screened within the clayey silt material. A sand pack was placed around and slightly above the well screen, and the remaining upper portion of the borehole was sealed with bentonite. A steel monument casing was installed over the well at each monitoring location. Upon completion of the monitoring wells, the monitors were tagged registered with the MECP as required by Ontario Regulation (O. Reg.) 903, as amended. Details of the monitoring well construction are summarized in **Table 3-1**. The location of the monitoring wells are depicted in **Figure 6**, and borehole logs are provided in **Appendix B**.

Six (6) nested pairs of piezometers, for a total of twelve (12) mini-piezometers (MP1-S/D through MP6-S/D) were installed within the wetland areas across the Study Area in May 2022. These mini-piezometers were installed to assess groundwater-surface water interactions within the natural heritage features.

An additional five (5) nested pairs of piezometers, for a total of ten (10) mini-piezometers, were installed in April 2023 on the adjacent property north of the Study Area downgradient of the proposed SWM Pond (**Figure 6**). It is our understanding that the proposed SWM pond will discharge water in a northerly direction into the wetland. The purpose of these additional mini-piezometers is to investigate potential impacts in the wetland as a result of the SWM pond.

The mini-piezometers were constructed with a 19 mm diameter steel pipe threaded onto an approximately 0.33 m long screened drive point piezometer Solinst tip, and were installed to the targeted depth through direct push. A pilot hole was not advanced prior to the installation; as such, the screened material at each mini-piezometer location is unknown. The construction details of the mini-piezometers are provided in **Table 3-2**, and the location of the mini-piezometers are shown on **Figure 6**.



Table 3-1: Monitoring Well Details

Monitor	Ground Surface Elevation (masl)	Top of Pipe Elevation (masl)	Screen Interval (masl)	Screened Material
MW22-301	531.0	531.9	523.4-521.9	Sandy SILT TILL
MW22-302	522.6	523.6	518.1-516.5	Sandy SILT TILL
MW22-303	518.4	519.2	513.8-512.3	Sandy SILT TILL
MW22-304	523.5	524.4	519.4-517.9	Silty SAND TILL
MW22-305	523.7	524.8	519.2-517.6	Silty SAND TILL
MW22-306-S	522.9	523.7	519.8 – 518.3	Silty SAND TILL
MW22-306-D	522.8	523.7	516.8 – 513.8	Silty SAND TILL
MW22-307-S	528.0	528.7	523.4 – 521.9	Silty SAND TILL
MW22-307-D	527.9	528.8	519.4 – 517.9	Sandy SILT TILL
MW22-308-S	522.2	523.2	520.7 – 519.2	Silty SAND to Sandy Silt TILL
MW22-308-D	522.4	523.2	518.4 – 516.9	Silty SAND TILL
MW22-309-S	521.9	522.8	517.3 – 515.8	Silty SAND TILL
MW22-309-D	521.8	522.9	512.7 – 511.2	Silty SAND TILL
MW22-310	523.2	524.3	515.6 – 514.1	Silty SAND TILL
MW22-311	521.1	521.9	513.6 – 512.0	Sandy SILT TILL
MW22-312	520.6	521.7	517.6 – 516.0	SAND and GRAVEL
MW22-313-S	520.0	520.9	515.6 – 514.1	Sandy SILT TILL to Silty SAND TILL
MW22-313-D	520.0	521.1	510.9 – 509.3	Silty SAND TILL to Sandy SILT TILL
MW22-314	517.3	518.3	512.7 – 511.2	Silty SAND TILL
MW22-315	518.8	519.7	508.1 – 506.6	Sandy SILT TILL and SAND
MW22-316	520.1	521.0	512.5 – 510.9	Silty SAND TILL



Table 3-1: Mini-Piezometer Details

Monitor	Ground Surface Elevation (masl)	Top of Pipe Elevation (masl)	Screen Interval (masl)
MP1S	519.8	521.1	519.2 – 518.9
MP1D	519.8	521.3	518.3 – 518.0
MP2S	516.9	517.8	516.3 – 516.0
MP2D	516.9	518.2	515.3 – 515.0
MP3S	517.1	517.6	516.4 – 516.0
MP3D	517.0	517.8	515.4 – 515.1
MP4S	523.6	524.2	523.0 – 522.7
MP4D	523.6	524.4	521.9 – 521.6
MP5S	522.8	524.0	522.1 – 521.8
MP5D	522.7	523.9	521.1 – 520.7
MP6S	520.9	522.1	520.3 – 512.0
MP6D	520.9	522.1	519.4 – 519/0
MP301-S ^[1]	-	1.09	0.53 – 0.76
MP301-D ^[1]	-	1.31	1.51 – 1.74
MP302-S ^[1]	-	1.04	0.24 – 0.47
MP302-D ^[1]	-	0.94	1.28 – 1.51
MP303-S ^[1]	-	1.09	0.52 – 0.75
MP303-D ^[1]	-	1.30	1.55 – 1.78
MP304-S ^[1]	-	1.90	0.54 – 0.77
MP304-D ^[1]	-	1.33	1.52 – 1.75
MP305-S ^[1]	-	1.09	0.52 – 0.75
MP305-D ^[1]	-	1.28	1.56 – 1.79

1. Top of pipe reported in metres above ground surface. Reported top of pipe was measured manually prior to surveying.

3.2 Monitoring Well Development

Following installation, the monitoring wells were developed using dedicated tubing fitted with Waterra inertia foot valves. The monitoring wells were developed to remove any soil fines that may have infiltrated into the monitoring well and its surrounding sand pack during the installation process, and to improve the hydraulic connection between the well and geologic materials. Due to slow recovery, each well was purged dry and allowed to recover. Water was subsequently removed from the monitoring well until discontinuous flow was produced for a second time.

3.3 Water Level Monitoring

Groundwater levels were manually collected in each accessible monitor using a water level meter to collect baseline data prior to development. Water levels were collected on a quarterly basis commencing on May 13, 2022, with the most recent event occurring on March 28, 2023. The surface



water level and groundwater elevation were measured at the mini-piezometer locations to assess groundwater-surface water interactions within the wetland area.

To support a more comprehensive understanding of the Study Area, select monitoring wells and mini-piezometers were instrumented with automated dataloggers on May 13, 2022, in order to obtain continuous groundwater level readings. A barologger was also deployed coincident with the datalogger to measure changes in atmospheric pressure. Continuous water level measurements provide additional insight into the groundwater regime, particularly in response to precipitation events, as well as high-water level conditions. The dataloggers are downloaded every four (4) months while completing manual water level measurements across the Study Area. The dataloggers were removed from the mini-piezometers during the winter period to avoid minimize potential damage due to freeze-thaw events. The dataloggers were re-deployed in the mini-piezometers in spring. The new mini-piezometers installed in the spring 2023 were instrumented with dataloggers on April 26, 2023, to provide continuous groundwater elevations in support of the investigation to understand the potential impacts of the proposed SWM pond on the wetland.

3.4 In-Situ Hydraulic Conductivity and Analysis

In-situ hydraulic conductivity tests were completed in select monitoring wells to establish the permeability (hydraulic conductivity) of the formation in which the wells are screened. Hydraulic conductivity is a parameter that describes the ability of soil to allow water to move through it. The lower the hydraulic conductivity, the less water will be able to move through. Aquifers, such as sandy or gravelly soils, typically have a hydraulic conductivity of 10^{-6} metres per second (m/s) or greater, whereas aquitards (clay or dense silt) have a hydraulic conductivity of 10^{-8} m/s or less.

The testing involved the slug test method, whereby a slug of known volume was removed (rising head test) from each well. The water levels were recorded during the addition, removal, and recovery stages of the slug test using a Diver datalogger temporarily installed in the monitor. The in-situ hydraulic conductivity test was completed once the water level recovered to 90% of static conditions. The slug tests were analyzed in AQTESOLV using the Bouwer-Rice method (1976) for unconfined aquifers.



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LEGEND

- SITE BOUNDARY
- MONITORING WELL
- MINI-PIEZOMETER
- PERMANENT WATERCOURSE
- DRAINAGE DIVIDE

NOTES:
SITE BOUNDARY; SCHAEFFER DZALDOV BENNETT LTD.; 2022
BASEDATA:
ONTARIO MINISTRY OF NATURAL RESOURCES, LAND INFORMATION
ONTARIO (LIO)

0 50 100 200 300 m
SCALE 1:7,500
PAGE SIZE 11 x 17
NAD 1983 UTM Zone 17N
THIS MAP IS FOR CONCEPTUAL PURPOSES ONLY
AND SHOULD NOT BE USED FOR NAVIGATION

DUNDALK VILLAGE TWO INC.
GLENELG PHASE 3
DUNDALK, ONTARIO, CANADA

HYDROGEOLOGICAL ASSESSMENT

SITE PLAN

SLR FIGURE NO:
6

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

4.0 Local Geology and Hydrogeology

4.1 Geology and Hydrostratigraphy

4.1.1 Surficial Geology

Based on a review of the Ontario Geological Survey mapping (OGS, 2010), the surficial geology of the Study Area is primarily Elma Till, which is characterized as a stone-poor sandy silt to silty sand till. The wetland found along the western portion of the Study Area is mapped to consist of glaciofluvial sandy river deposits, with minor organic deposits located within wetland areas.

Surficial geology of the Study Area was also characterized by advancing boreholes at select locations across the property. Borehole logs are provided in **Appendix B**. Geological cross-sections of the Study Area, as indicated in **Figure 7**, are presented in **Figure 8** and **Figure 9**.

Based on the results of the drilling program, the Study Area was comprised of a till unit underlying the surficial, overturned topsoil. The till unit is composed of sandy silt to silty sand material and was located at approximately 506.4 (MW22-315) masl to 530.9 (MW22-301) masl. Interbedded within the till unit are discontinuous sand to sandy gravel lenses. The upper 3 to 5 m of the till unit is weathered, and shows root structures, fractures, and oxidized soils. This more permeable weathered soil hosts the water table, primarily due to poor drainage with depth. The glacial till is estimated to be approximately 35 m thick underneath the Site. The glacial till material serves as an aquitard protecting the underlying bedrock aquifer due to its low permeability and substantial thickness.

4.1.2 Bedrock Geology

Boreholes advanced across the Study Area were terminated once the targeted depth of the shallow monitoring wells were reached. As such, bedrock was not encountered during drilling. However, a review of the MECP WWR database indicates that the bedrock in the area lies between 22 mbgs (MECP well ID 2506475) to 36 mbgs (MECP well ID 2515624). The bedrock consists mostly of dolostone/limestone, likely from the Guelph Formation.

Source Protection documents from the GRCA indicates that the bedrock is composed of 88 m of both the Guelph Formation and the Gasport Formation (Lake Erie Region Source Protection Committee, 2021). The Guelph Formation consists of porous, fine to medium crystalline, medium to massive irregularly bedded dolostone (Armstrong, 2010). The underlying Gasport Formation consists of thick- to massive-bedded, fine to coarse-grained dolostone and dolomitic limestone (Armstrong, 2010).

4.2 Groundwater Monitoring

4.2.1 Groundwater Monitoring

Groundwater level measurements were recorded at each accessible monitoring well and mini-piezometer location commencing in May 2022 with the most recent event occurring in March 2023. Monitors MP1 S/D, MP4 S/D, MP5 S/D, MW22-302, MW22-304, MW22-306 S/D, MW22-309S, MW22-313 S/D and MW22-316 were instrumented with Diver dataloggers to collect continuous water level measurements at 12-hour intervals. Groundwater elevations and hydrographs are provided in **Appendix C**. It is noted that continuous groundwater elevations are unavailable for MW22-313 S/D between June 3 and June 14 as the logger was temporarily removed from the well. Continuous water levels are also periodically unavailable between June 27 and July 4 at all monitoring wells due to hydraulic conductivity testing.

Groundwater elevations across the Study Area fluctuated seasonally between May 2022 and March 2023. During the spring 2022 monitoring event, water levels in the monitoring wells ranged between



515.13 masl (MW22-301) and 530.83 (MW22-313D), where groundwater elevations were generally within the upper 2 m. In comparison, water levels during the summer 2022 event ranged between 514.85 masl (MW22-315) and 528.42 masl (MW22-301). During the fall 2022 monitoring event, groundwater levels ranged between 513.80 masl (MW22-315) and 526.23 masl (MW22-301). Groundwater levels were measured to be highest during the spring 2023 monitoring event with groundwater levels ranging between 516.56 masl (MW22-315) and 530.21 masl (MW22-301). It is noted that tile drains are present across the majority of the Study Area, which can influence groundwater elevations locally. The tile drains situated beneath the field in the vicinity of the Site drain to the wetland directly north of the Site.

Groundwater elevations between the shallow and deep monitors at the nested monitoring well locations are comparable, although flashier water levels (in response to precipitation) were observed in the shallow monitors. This is attributed to the fact that the shallow monitor is screened within the weathered till, and the deeper monitor is screened within the unweathered till.

Groundwater elevations in mini piezometers demonstrate a similar response to seasonal fluctuations as the groundwater monitors. Groundwater elevations were high in spring, gradually decreased moving into the summer.

4.2.2 Horizontal Groundwater Flow

The interpreted groundwater contours for March 2023, representing a generally high-water table position, are presented in **Figure 10**. Water levels during spring conditions are of particular interest as it typically represents the highest groundwater elevations and will therefore inform the engineering design of residential development. The interpreted groundwater flow direction is generally in southwesterly direction along the west portion of the Study Area. Along the eastern portion of the Study Area, the groundwater flow direction is influenced by localized flow towards the creek. There is a watershed drainage divide that runs through the centre of the Study Area in a north-south direction separating the two directions of groundwater flow. Shallow groundwater contours at the Study Area have been interpreted to mimic ground surface topography. The horizontal component of groundwater flow travels in the weathered upper till.

4.2.3 Vertical Groundwater Flow

Vertical hydraulic gradients were calculated between the shallow and deep monitors at the nested monitoring well locations to assess groundwater discharge/recharge conditions across the Study Area. Vertical hydraulic gradients were also calculated at the mini-piezometer location to assess groundwater-surface water interactions within the wetland located east of the Study Area. The vertical hydraulic gradients are provided in **Table C-3, Appendix C**.

Groundwater elevations were comparable between the shallow and deep monitor at nested location MW22-309. Measured hydraulic gradients ranged from 0.01 m/m to 0.03 m/m, indicating very weak to negligible downward groundwater movement. At nested location MW22-306, MW22-307, and MW22-308, consistently weak upward hydraulic gradients were recorded (-0.01 m/m to -0.12 m/m), indicating weak groundwater discharge conditions. There was no notable trend at nested location MW22-313.

The shallow and deep monitor at each nested monitoring well locations were screened within the silty sand to sandy silt till, suggesting that in general, weak groundwater discharge conditions are observed within the till unit.

Groundwater elevations at MP6 was generally higher in the deeper piezometers than the shallow, suggesting there are some groundwater contribution to this feature. In contrast, mini piezometers at locations MP2, MP3, MP4, and MP5 generally exhibit groundwater elevations higher in the shallow piezometer, where data exists, indicating that the features are primarily sustained by surface water run-off and precipitation. This is supported by the fact that surface water levels at these monitoring locations are commonly dry in the summer period. Groundwater elevations were comparable between



the shallow and deep mini piezometers at MP1, indicating that there were negligible (i.e., -0.03 to 0.03 m/m) hydraulic gradients.

4.3 Hydraulic Conductivity

In-situ hydraulic conductivity tests were completed at six groundwater monitoring wells at the Study Area. The results of the hydraulic conductivity tests are provided in **Table 4-1**, and the AQTESOLV analysis are provided in **Appendix D**.

Table 4-1: Hydraulic Conductivity

Monitor	Hydraulic Conductivity (m/s)	Screened Strata
MW22-306S	1.4×10^{-8}	Silty sand till
MW22-306D	7.6×10^{-8}	Silty sand till
MW22-309S	1.0×10^{-8}	Silty sand till
MW22-313S	2.2×10^{-7}	Silty sand till
MW22-313D	7.6×10^{-10}	Silty sand till to Sandy silt till
MW22-316	2.6×10^{-7}	Silty sand till

The geometric mean hydraulic conductivity for the five (5) tested monitoring wells is 5.7×10^{-8} m/s, with a measured range of 2.2×10^{-7} to 1.4×10^{-8} m/s. This corresponds to the upper weathered portion of the glacial till. Monitor MW22-313D was screened deeper in the unweathered glacial till aquitard and was found to have a hydraulic conductivity 30 times lower than the upper material at 7.6×10^{-10} m/s. The results are consistent with those reported by Freeze and Cherry (1979) for similar soils, and for soils located on the Glenelg Phase 2 development area which is situated immediately south of Glenelg Phase 3.

4.4 MECP Water Well Record Database

Well records from the MECP WWR database were reviewed to assess the stratigraphy and water use of wells located within a 500 m radius of the Study Area. The locations of the wells are shown in **Figure 11**, and a summary is provided in **Appendix E**. Copies of the well records are provided in **Appendix E**.

Fifty (50) MECP wells were identified within 500 m of the property. Twenty-five (25) of those wells were for water supply purposes, fourteen (14) were observation/monitoring wells or test holes, nine (9) were noted to be abandoned and two (2) wells were without a noted water use. None of the water supply wells were noted to be less than 10 m in depth. The wells were screened within one of two units: the overburden aquifer and the deeper bedrock aquifer.

Several local residential wells tap into the upper 10 m of the bedrock, with the bedrock surface generally at about 22 to 36 mbgs. Based on the pumping rate, a sufficient water supply is available within the bedrock aquifer.

The bedrock aquifer is composed of both the Guelph Dolostone Formation and the underlying Gasport Dolostone Formation. The upper bedrock is inferred to be of low permeability, and the municipal production zone lies in the middle of the sequence. Municipal well D4 is found approximately 460 m southeast of the Site boundary, and D3 and D5 to the southeast approximately 1020 m and 1225 m, respectively (**Figure 11**). Several local residential wells also tap a sand and gravel deposit that overlies the bedrock. This deposit is laterally discontinuous, as it is not present at many locations.



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 4891487 4891987 4892487 4892987 4893487 4893987 4894487 4894987 4895487 4895987 4896487 4896987 4897487 4897987 4898487 4898987 4899487 4899987



LEGEND

- SITE BOUNDARY
- + MONITORING WELL
- + MINI-PIEZOMETER

MECP WELL LOCATION (WWIS, 2022)

- + LIVESTOCK
- + MUNICIPAL
- + MONITORING
- + DOMESTIC
- + UNCLASSIFIED

- PERMANENT WATERCOURSE
- DRAINAGE DIVIDE
- CROSS SECTION
- RAIL TRAIL

NOTES:
 SITE BOUNDARY; SCHAEFFER DZALDOV BENNETT LTD.; 2022
 BASEDATA:
 ONTARIO MINISTRY OF NATURAL RESOURCES, LAND INFORMATION
 ONTARIO (LIO)

0 50 100 200 300 m
 SCALE 1:7,500
 PAGE SIZE 11 x 17
 NAD 1983 UTM Zone 17N
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DUNDALK VILLAGE TWO INC.
 GLENELG PHASE 3
 DUNDALK, ONTARIO, CANADA

HYDROGEOLOGICAL ASSESSMENT

CROSS-SECTION LOCATIONS

7

FIGURE NO:

DATE: May 4, 2023 PROJECT NO: 209.V30125.00003

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

A
NORTHWEST
7167449

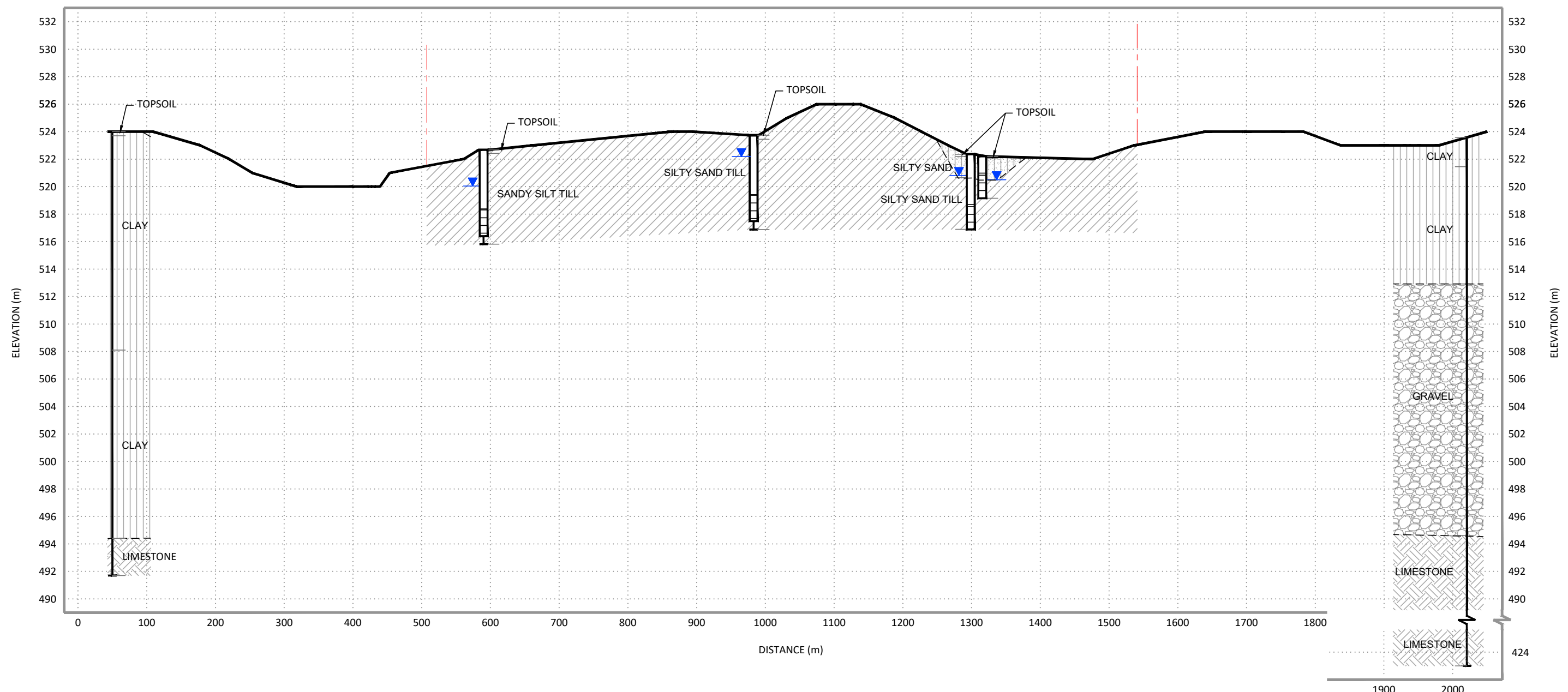
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SOUTHEAST
2515005

MW22-302
522.64 m

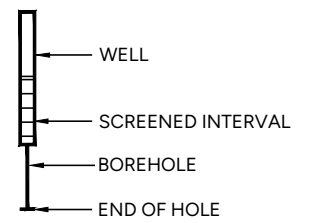
MW22-305
523.74 m

MW22-308D MW22-308S
522.35 m 522.20 m

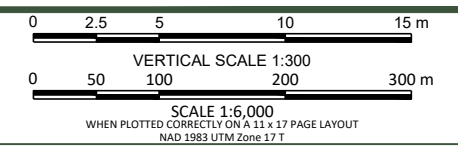
MECP WATER WELL



- LEGEND:**
- PROPERTY BOUNDARY
 - MONITORING WELL
 - MECP WATER WELL
 - WATER LEVEL (MARCH 28, 2023)
 - CLAY
 - SILTY SAND
 - SILTY SAND TILL TO SANDY SILT TILL
 - SAND AND GRAVEL
 - BEDROCK



NOTES:
1. MW22-308S/D AND MW22-313 WERE BOTH FROZEN DURING THE MARCH 2023 WATER LEVEL EVENT.



FLATO DEVELOPMENTS INC.
NORTHWEST DEVELOPMENT
DUNDALK, ON

HYDROGEOLOGICAL ASSESSMENT

GEOLOGICAL CROSS SECTION A-A'

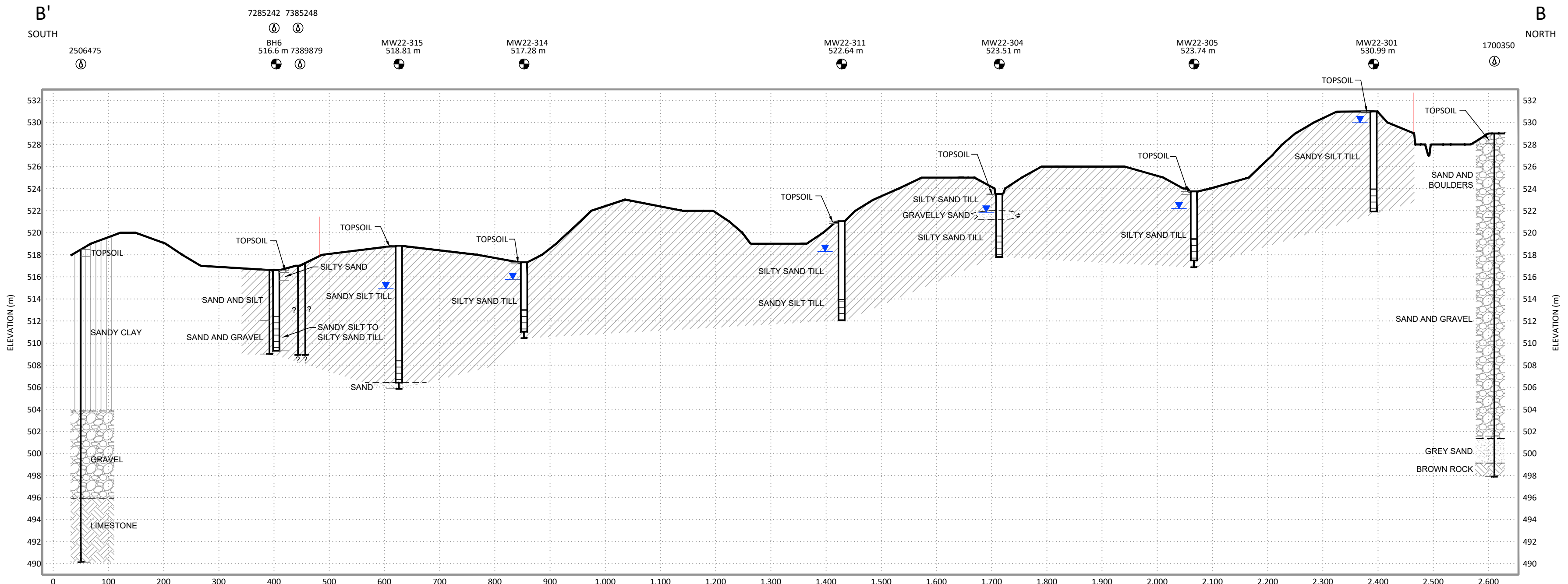


FIGURE NO:
8

DATE: May 1, 2023

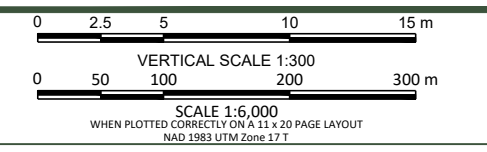
PROJECT NO: 209.30125.00003

Cadfile name: S_209-30125-00003-A4.dwg



- LEGEND:**
- - - PROPERTY BOUNDARY
 - MONITORING WELL
 - MECP WATER WELL
 - WATER LEVEL (MARCH 28, 2023)
 - CLAY
 - SILTY SAND
 - SILTY SAND TILL TO SANDY SILT TILL
 - SAND AND GRAVEL
 - SAND
 - BEDROCK
 - WELL
 - SCREENED INTERVAL
 - BOREHOLE
 - END OF HOLE

NOTES:
 1. MW22-308S/D AND MW22-313 WERE BOTH FROZEN DURING THE MARCH 2023 WATER LEVEL EVENT.



FLATO DEVELOPMENTS INC.
 NORTHWEST DEVELOPMENT
 DUNDALK, ON

HYDROGEOLOGICAL ASSESSMENT

GEOLOGICAL CROSS SECTION B-B'



FIGURE NO:
 9

Cadfile name: S_209-30125-00003-A4.dwg

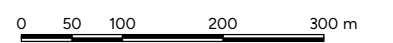
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LEGEND

- SITE BOUNDARY
- + MONITORING WELL
- MINI-PIEZOMETER
- INFERRED GROUNDWATER ELEVATION CONTOUR
- INFERRED GROUNDWATER FLOW DIRECTION
- 519.1** GROUNDWATER ELEVATION (MARCH 28, 2023)
- PERMANENT WATERCOURSE
- DRAINAGE DIVIDE

NOTES:
 SITE BOUNDARY; SCHAEFFER DZALDOV BENNETT LTD.; 2022
 BASEDATA:
 ONTARIO MINISTRY OF NATURAL RESOURCES, LAND INFORMATION
 ONTARIO (LIO)



SCALE 1:7,500
 PAGE SIZE 11 x 17
 NAD 1983 UTM Zone 17N
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 AND SHOULD NOT BE USED FOR NAVIGATION

DUNDALK VILLAGE TWO INC.
 GLENELG PHASE 3
 DUNDALK, ONTARIO, CANADA

HYDROGEOLOGICAL ASSESSMENT

INTERPRETED GROUNDWATER FLOW DIRECTION - MARCH 2023



FIGURE NO:
10

Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community



LEGEND

- SITE BOUNDARY
- SITE BOUNDARY (500M BUFFER)
- INTERMITTENT WATERCOURSE
- PERMANENT WATERCOURSE

MECP WELL LOCATION (WWIS, 2023)

- LIVESTOCK
- MUNICIPAL
- MONITORING
- DOMESTIC
- TEST HOLE
- NOT USED
- UNCLASSIFIED

NOTES:
 SITE BOUNDARY; SCHAEFFER DZALDOV BENNETT LTD.; 2022
 BASEDATA:
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DUNDALK VILLAGE TWO INC.
 GLENELG PHASE 3
 DUNDALK, ONTARIO, CANADA

HYDROGEOLOGICAL ASSESSMENT

MECP WELL LOCATIONS

SLR FIGURE NO:
11

5.0 Impact Assessment for Potential Receptors

5.1 Shallow Groundwater Features

Groundwater elevations across the Study Area are relatively shallow (generally less than 5 m) in the spring and fluctuate on a seasonal basis. Higher water levels were observed in late winter into spring following precipitation events and snowmelt. Water levels decreased into the drier summer months. Water levels generally follow ground surface elevations, where higher groundwater elevations occur at the north-western edge of Study Area, and lower groundwater elevations within the southern portion of the property.

During the spring season, the water level is hosed by surficial silty sand, and sand/gravel pockets that is noted to be discontinuous across the property. Water levels in these monitors drop into the underlying weathered till unit in the drier summer months, and subsequently into the unweathered till. The weathered till unit has an estimated hydraulic conductivity of 2×10^{-7} m/s. Based on a review of the MECP WWR records, the till unit extends to approximately 35 mbgs. The hydraulic conductivity of the unweathered till aquitard is estimated at 7.6×10^{-10} m/s, approximately 30 times lower than the weathered till.

5.2 Potable Wells

The Village of Dundalk relies on groundwater supply from wells screened within the dolostone bedrock that extends under the Site. The well capture zones have been documented by the Lake Erie Region Source Protection Committee and extend under the eastern portion of the Study Area within the bedrock. The upper bedrock is inferred to be of low permeability, and the municipal production zone lies in the middle of the sequence. Municipal well D4 is found approximately 460 m southeast of the Study Area boundary, and D3 and D5 to the southeast approximately 1020 m and 1225 m, respectively (**Figure 11**). Given the thickness of the aquitard soils at this Study Area and the fact that there will be no commercial facilities or onsite sewage disposal through private septic beds, no impact to the groundwater quality in the aquifer is expected. In addition, there are no anticipated hydrogeological impacts due to the proximal distance of the municipal wells to the Study Area. Nevertheless, pre-development recharge will have to be maintained in the post-development condition.

Rurally there are several surrounding individual residential private wells that tap into the dolostone bedrock and have been drilled to depths of approximately 28 to 83 m. These residential water wells are a relatively low draw on the groundwater and given the thickness of the overlying clay aquitard, is not expected to be affected by the proposed development provided groundwater recharge is maintained.

Monitoring wells have been installed at the property as part of the site-specific investigations to document stabilized groundwater conditions. Monitoring is on-going and is planned to continue through construction. When the monitoring wells are determined to be no longer required, or if they are determined to be at risk of damage from grading and construction, the wells should be properly decommissioned in accordance with O. Reg. 903. Decommissioning a well which is no longer in use helps ensure the safety of those in the vicinity of the well, prevents surface water infiltration into an aquifer via the well, prevents the vertical movement of water within a well, conserves aquifer yield and hydraulic head, and can potentially remove a physical hazard.

5.3 Surface Water Features

A number of small unnamed tributaries are present at the Study Area; there are two tributaries located in the north and south ends of the Study Area that drain towards the northeast within the SRW, and one tributary within a wetland situated along in the eastern portion of the Study Area that drains towards the south within the GRW. There are also unevaluated wetlands on the Site. The wetlands will be evaluated as part of the EIS to be submitted under separate cover.



Groundwater monitoring completed across the Study Area indicates that in general, the wetland features across the property are primarily fed by precipitation and surface water run-off. However, at mini-piezometer location MP6 located within the GRW, consistently upward hydraulic gradients were recorded indicating groundwater contributions to this feature. A site-specific water balance and corresponding mitigation measures will be assessed in order to ensure that these features are not affected by development.

5.4 Construction Dewatering

Typically, temporary excavations for basements will remain dry from a groundwater inflow perspective, due to the low permeability soils and relatively shallow depths. In the wet season, there may be some temporary groundwater discharge that can be handled by sump and pump techniques. Due to the expected low volumes, it is not expected that Permit to Take Water (PTTW) or Environmental Activity and Sector Registry (EASR) approvals will be required for basement foundations which are anticipated to be fairly shallow. Additional evaluations of dewatering requirements will be completed during detailed design.



6.0 Conclusion

The following presents the conclusions of the Hydrogeological Assessment for the proposed Glenelg Phase 3 development.

- The Study Area is predominantly underlain by surficial sandy silt to silty sand till deposits up to 5 m thick. The upper weathered portion of the till unit has an estimated average hydraulic conductivity of 5.7×10^{-8} m/s. The unweathered glacial till aquitard was found to have a hydraulic conductivity 30 times lower at 7.6×10^{-10} m/s.
- The Study Area lies along a watershed drainage divide that runs through the centre of the property in a north-south direction.
- Groundwater is interpreted to flow primarily in a southwesterly direction along the western portion of the Site and towards the eastern creek direction along the eastern portion of the Study Area.
- There are groundwater contributions to select wetland areas within the GRW, notably at mini-piezometer location MP6. It will be important to maintain groundwater contributions to these natural heritage features. No groundwater discharge conditions were recorded at the remaining mini-piezometer locations. Instead, these features are primarily sustained by precipitation and surface water run-off.
- It is recognized that the Site is located within a WHPA and SGRA.
- Municipal well D4 is located approximately 460 m southeast of the Study Area. In addition, municipal wells D3 and D5 are located approximately 1020 m and 1225 m, respectively, southeast of the Study Area. There are no anticipated hydrogeological impacts due to the proximal distance of the municipal wells to the proposed development area and low permeable surficial soils present at the Study Area.
- There are several surrounding individual residential private wells that tap into the dolostone bedrock and overburden aquifer unit. The residential water wells are a relatively low draw on the groundwater and given the thickness of the overlying clay aquitard, is not expected to be affected by the proposed development provided groundwater recharge is maintained.



7.0 Closure

We trust that this report satisfies your requirements at this time.

Regards,

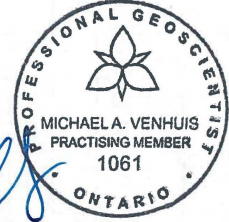

SLR Consulting (Canada) Ltd.



Jessica Vu, M.Sc., G.I.T.
Environmental Scientist



Claire Elliott, M.Sc., G.I.T.
Environmental Scientist



Michael Venhuis, M.Sc., P.Geo.
Senior Hydrogeologist



8.0 References

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Appendix A Development Plan

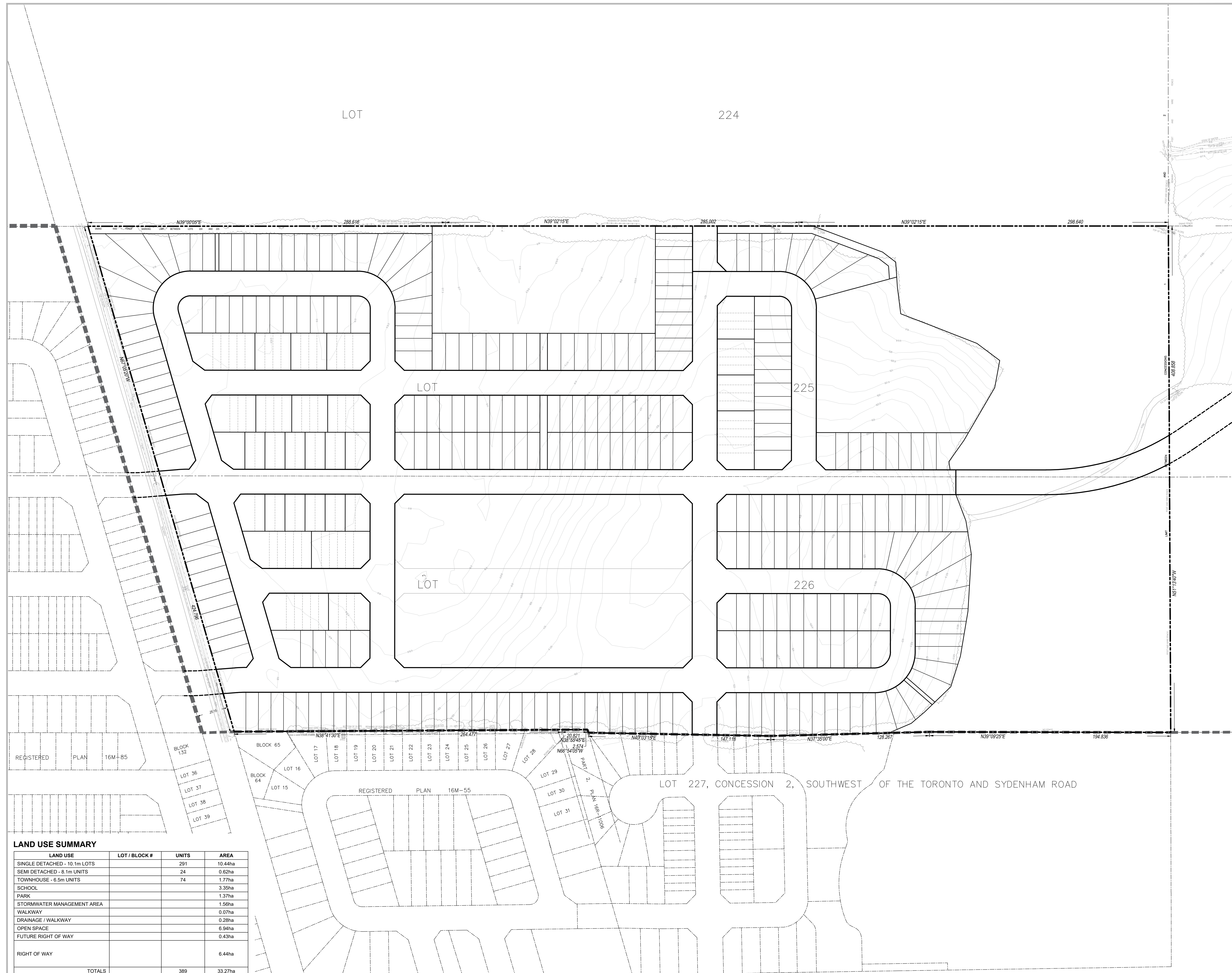
Hydrogeological Assessment

Glenelg Phase 3

Dundalk Village Two Inc.

SLR Project No.: 209.30125.00003

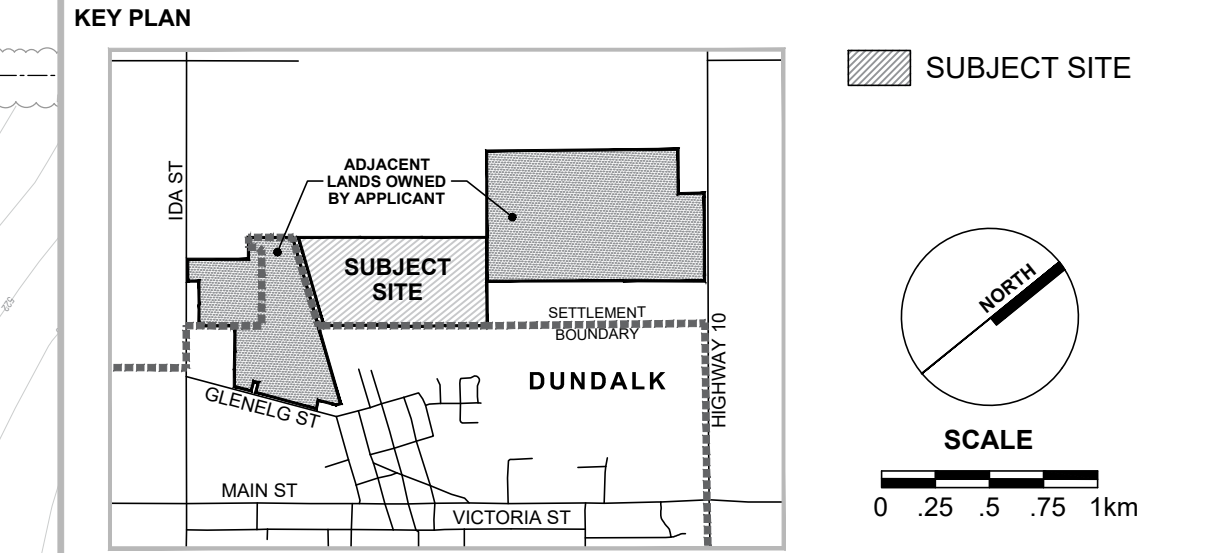
May 25, 2023



LEGAL DESCRIPTION
 PART OF LOTS 225 AND 226
 CONCESSION 2, SOUTHWEST OF THE TORONTO AND SYDENHAM ROAD
 GEOGRAPHIC TOWNSHIP OF PROTON
 TOWNSHIP OF SOUTHGATE
 COUNTY OF GREY

OWNER'S CERTIFICATE
 I HEREBY AUTHORIZE MACNAUGHTON HERMSEN BRITTON CLARKSON PLANNING LIMITED TO SUBMIT THIS PLAN FOR APPROVAL.
 DATE: _____ SHAKIR REHMATULLAH - PRESIDENT
 DUNDALK VILLAGE TWO INC.

SURVEYOR'S CERTIFICATE
 I HEREBY CERTIFY THAT THE BOUNDARIES OF THE LAND TO BE SUBDIVIDED ON THIS PLAN AND THEIR RELATIONSHIP TO THE ADJACENT LANDS ARE ACCURATELY AND CORRECTLY SHOWN.
 DATE: _____ DAN DZALDOV - O.L.S.
 SCHAEFFER DZALDOV BENNETT LTD.



LEGEND

- PROJECT BOUNDARY LINE
- RIGHT OF WAY LINE
- BLOCK LINE
- LOT LINE
- - - - - PARCEL FABRIC

REVISION No.	DATE	ISSUED / REVISION	BY
ADDITIONAL INFORMATION REQUIRED UNDER SECTION 51(17) OF THE PLANNING ACT R.S.O. 1990 C.P.13 AS AMENDED			
A. AS SHOWN	E. AS SHOWN	J. AS SHOWN	
B. AS SHOWN	F. AS SHOWN	K. ALL SERVICES AS REQUIRED	
C. AS SHOWN	G. AS SHOWN	(WATER, SANITARY, STORMWATER, HYDRO)	
D. 369 SINGLES, 18 SEMIS, & 72 TOWNHOUSES	H. MUNICIPAL WATER SUPPLY	L. AS SHOWN	
	I. LOAN/SILT LOAN		

PLANNING URBAN DESIGN & LANDSCAPE ARCHITECTURE MHBC PLANNING
 113 COLLIER STREET
 8 A RILEY ON N. L4M 1H2
 P: 705 728 0045 F: 705 728 2010
 WWW.MHBCPLAN.COM

STAMP	DATE	FILE No.	SCALE	DRAWN BY	CHECKED BY	OTHER
	MAY 10, 2023	15184AT	1:1,400 (ARCH D)	M.M.	K.C.	

PROJECT
GLENELG PHASE 3
 DUNDALK VILLAGE TWO INC.
 3621 HIGHWAY 7 EAST, SUITE 503
 MARKHAM, ON L3R 0G6
 P:(905) 479-9292 F:(905) 429-9165
 WWW.FLATOGROUP.COM

FILE NAME
 DRAFT
 PLAN OF SUBDIVISION

DWG No.
 1 of 1

SCALE BAR
 0 7 14 21 28 35 52.5 70 105 140m
 MEASUREMENTS SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048

LAND USE SUMMARY

LAND USE	LOT / BLOCK #	UNITS	AREA
SINGLE DETACHED - 10.1m LOTS		291	10.44ha
SEMI DETACHED - 8.1m UNITS		24	0.62ha
TOWNHOUSE - 6.5m UNITS		74	1.77ha
SCHOOL			3.35ha
PARK			1.37ha
STORMWATER MANAGEMENT AREA			1.56ha
WALKWAY			0.07ha
DRAINAGE / WALKWAY			0.28ha
OPEN SPACE			6.94ha
FUTURE RIGHT OF WAY			0.43ha
RIGHT OF WAY			6.44ha
TOTALS		389	33.27ha



Appendix B Borehole Logs

Hydrogeological Assessment

Glenelg Phase 3

Dundalk Village Two Inc.

SLR Project No.: 209.30125.00003

May 25, 2023



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Borehole LOG

ESA-3

BOREHOLE NO:
 SURFACE ELEVATION:

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA				BOREHOLE COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	DEPTH (m)
							■ SPT Count	◆ % Moisture	10	20				
0		TOPSOIL Silty sand, organics, brown, soft, moist		0-2	45.8		■ 5							0
1		Silty SAND TILL Fine Sand, silty, trace clay, some gravel (angular) and some cobbles, light brown, soft moist to dry		*4-4.5 / DUP-3D	66.7		■ 7							1.0
2				*5-7	50.0		■ 14							2.0
3				7.5-9.5	45.8		■ 13							3.0
4				10-12	91.7		>50						bentonite seal	4.0
5				12.5-14.5	60.4		>50							5.0
6				15-17			■ 49							6.0
7				*17.5-19.5 / DUP-3C	79.2		>50							7.0
8				20-22	33.3									8.0
		End of borehole at m												
		* denotes soil sample taken for lab analysis												

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE.GDT 5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)
 DRILL DATE: May 2, 2022
 LOGGED BY: RH
 DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-301**
 SURFACE ELEVATION: **530.99 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA		WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
							■ SPT Count 10 20 30 40 50	◆ % Moisture 20 40 60 80 100				
0	530.99	TOPSOIL Fine-coarse sand, silty, some organics (rootlets), gravel and cobbles (sub-angular), dark brown, soft, moist	▲	0-2	37.5	●	7					
0.5	530.86	Sandy SILT TILL Fine sand, some medium-coarse sand, some gravel (sub-angular/sub-rounded), occasional cobbles, trace clay, light brown, soft, moist-wet. Increasing gravel content with depth	▲	2.5-4.5	41.7	●	16				bentonite seal	530
1.5			▲	5-7	58.3	●	14					529
2.5	528.53	crushed cobbles, becomes hard/dense	▲	7.5-9.5	58.3	●	40					528
3.5	527.94	Sub-angular/angular gravel, crumbly, moist	▲	10-12	58.3	●	>50					527
4.5	527.18	Lower frequency (trace) medium-coarse sand, dense, moist	▲	12.5-14.5	20.8	●	>50				grout	527
5.5			▲	15-17	33.3	●	>50					526
6.5			▲	17.5-19.5	12.5	●	>50					525
6.5	524.89	No recovery	○		0.0		>50				bentonite seal	524
7.5	524.13	Sandy SILT TILL Silty, trace medium-coarse sand, trace gravel, crushed cobbles, brown-grey, crumbly, dense, dry	▲	22.5-24.5	4.2	●	>50					524
8.5	523.37	Increased clay content, moist-wet	▲	25-27	12.5	●	>50				silica sand 50 mm 010 slot PVC pipe	523
9.5			▲	27.5-29.5	16.7	●	>50				end cap	522

End of monitoring well at 521.92 m

Well Completion Details:
 Screened interval from 523.45 m to 521.92 m
 Elevation at top of pipe (TOP) = 531.86 m

Groundwater Information:
 Depth to groundwater from TOP = 1.03 m (May 13, 2022)

* denotes soil sample taken for lab analysis

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE.GDT 5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)

DRILL DATE: April 25, 2022
 LOGGED BY: AW
 DRILLED BY: Orbit Garrant

Notes: SPLIT SPOON
 NO RECOVERY



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-302**
 SURFACE ELEVATION: **522.64 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA		WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
							■ SPT Count 10 20 30 40 50	◆ % Moisture 20 40 60 80 100				
522.64		TOPSOIL Black-brown										
522.39		Sandy SILT TILL Some CLAY, trace organics, trace gravel, dark-light brown, loose, dry-moist		0-2	100.0		4					
521.88		Moist		2.5-4.5	79.2		10					
521.12		Wet		5-7	16.7		3					
520.30		Increasing gravel with depth (angular / sub angular), increasing density with depth		7.5-9.5	100.0		25					
519.59		Wet		10-12	75.0		45					
518.83		Moist-wet		12.5-14.5	83.3		42					
517.31		Drilled through cobble from 5.33 m - 5.64 m		15-17	66.7		>50					
517.00		Grey-light brown		18.5-20	41.7		>50					
				20-22	41.7		>50					
<p>End of monitoring well at 515.78 m</p> <p>Well Completion Details: Screened interval from 518.07 m to 516.54 m Elevation at top of pipe (TOP) = 523.59 m</p> <p>Groundwater Information: Depth to groundwater from TOP = 2.63 m (May 13, 2022)</p> <p>* denotes soil sample taken for lab analysis</p>												

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE.GDT 5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)

DRILL DATE: April 19, 2022
 LOGGED BY: MJ
 DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-303**
 SURFACE ELEVATION: **518.35 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA		WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
							■ SPT Count 10 20 30 40 50	◆ % Moisture 20 40 60 80 100				
518.35		TOPSOIL										
518.10		Sandy SILT TILL Trace silt, trace medium sand, brown, orange-black mottling, loose, moist		0-2	75.0		4					518
1				2.5-4.5	75.0		9					517
516.83		Silty, trace gravel, brown, loose, soft, wet		5-7	8.3		4					
2				7.5-9.5	75.0		49					516
516.06		Increasing gravel with depth, light brown, dense, firm, moist		10-12	58.3		>50					515
3				12.5-14.5	8.3		>50					514
4				15-17	8.3		>50					513
5				17.5-19.5	37.5		>50					512
513.02		Very dense/hard		20-22	12.5		>50					512
		End of monitoring well at 511.49 m										
		Well Completion Details: Screened interval from 513.78 m to 512.25 m Elevation at top of pipe (TOP) = 519.22 m										
		Groundwater Information: Depth to groundwater from TOP = 1.65 m (May 13, 2022)										
		* denotes soil sample taken for lab analysis										

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE_GDT 5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)
 DRILL DATE: April 19, 2022
 LOGGED BY: MJ
 DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-304**
 SURFACE ELEVATION: **523.51 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA		WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
							■ SPT Count	◆ % Moisture				
523.51	523.46	TOPSOIL Silt, organics (rootlets), dark brown, trace fine sand, moist	▲	0-2	50.0	●	14	20				523
522.72		Silty SAND TILL Some gravel (sub-angular/sub-rounded), trace organics, trace medium sand, occasional cobbles, orange mottling, soft-firm, moist Very loose, saturated	▲	2.6-4.5	62.5	●	29	20				
521.99		Gravelly SAND Fine-coarse sand, trace silt, gravel (sub-angular/sub-rounded), cobbles, brown, very loose, saturated	▲	5-7	33.3	●	45	20			bentonite seal	522
521.22		Silty SAND TILL Silty, trace medium-coarse sand, some gravel (sub-angular/sub-rounded), crushed cobbles, trace clay, brown, compact, saturated	▲	7.5-9.5	33.3	●	35	20				521
519.70		Trace clay, less sand with depth, crumbly, dry	▲	10-10.5	54.2	●	>50	20				520
518.94		trace gravel, grey, very dense, moist-wet	▲	10.4-11.1		●						519
			▲	12.5-14.5	20.8	●	>50	20			silica sand 50 mm Ø10 slot PVC pipe	518
			▲	15-17	25.0	●	>50	20				
			▲	17.5-18.5	12.5	●	>50	20				518
		End of monitoring well at 517.87 m										
		Well Completion Details: Screened interval from 519.40 m to 517.87 m Elevation at top of pipe (TOP) = 524.44 m										
		Groundwater Information: Depth to groundwater from TOP = 1.65 m (May 13, 2022)										
		* denotes soil sample taken for lab analysis										

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE_GDT_5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)
 DRILL DATE: April 26, 2022
 LOGGED BY: AW
 DRILLED BY: Orbit Garrant

Notes: SPLIT SPOON



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-305**
 SURFACE ELEVATION: **523.74 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA		WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
							■ SPT Count 10 20 30 40 50	◆ % Moisture 20 40 60 80 100				
523.74		TOPSOIL										
523.44		Silty SAND TILL Silty, trace organics, trace clay nodules, brown, orange-black mottling, firm, loose, moist		*0-2.5 / DUP-3A	100.0		5					
522.98		Firm, compact, increasing gravel content with depth		2.5-5	50.0		9					523
522.22		Trace medium-coarse sand, trace gravel, trace cobbles, light brown-grey, soft, very loose, wet		*5-7.5	87.5		2					522
521.45				7.5-10	45.8		13				bentonite seal	521
520.69		Saturated		10-12.5	45.8		12					520
519.93		Gravelly, some silt, trace cobble, grey-light brown, dense, firm (crumbles), moist		12.5-15	45.8		>50					520
519.17		Grey, dense, hard, wet		15.-17.5	54.2		>50				silica sand 50 mm Ø10 slot PVC pipe	519
				17.5-20	62.5		>50					518
				20-22.5	66.7		>50				end cap silica sand	517
		End of monitoring well at 516.88 m									bentonite seal	517
		Well Completion Details: Screened interval from 519.17 m to 517.64 m Elevation at top of pipe (TOP) = 524.83 m										
		Groundwater Information: Depth to groundwater from TOP = 1.56 m (May 13, 2022)										
		* denotes soil sample taken for lab analysis										

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE_GDT 5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)

Notes: SPLIT SPOON

DRILL DATE: April 22, 2022 LOGGED BY: MJ
 DRILLED BY: Geo-Environmental



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-306D**
 SURFACE ELEVATION: **522.84 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA		WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
							■ SPT Count	◆ % Moisture				
522.84	522.71	TOPSOIL Organics (rootlets), clayey silt, trace fine sand, wormholes, soft, moist	0-0.4	0-0.4	45.8		6					
1	521.82	SAND Fine-medium sand (layered 1-2mm), silty, grey-brown/orange mottling, soft, loose-compact, wet	0.4-0.7	2.5-3.3	58.3		22					522
		Silty SAND TILL Gravel (Rounded to sub-rounded), fine-coarse sand, trace cobbles, trace silt, grey, loose, saturated	0.7-0.9	3.3-3.7								
2	521.21		5-5.3	5.3-6.0	50		18					521
		Trace gravel (sub-angular/sub-rounded), trace cobbles, increased silt with depth										
3			7.5-9.5		50.0		>50					520
			10-12		16.7		>50					
4	518.98	grey, dense/hard (increasing with depth), moist	12.5-12.7	12.7-13	25.0		>50					519
5	518.27	grey, dry	15-17		8.3		>50					518
			17.5-19.5		20.8		>50					517
6												
7					0.0							516
			22.5-24.5		45.8		>50					515
8					0.0							
			27.5-29.5		50.0		>50					514
9		End of monitoring well at 513.80 m										
<p>Well Completion Details: Screened interval from 516.85 m to 513.80 m Elevation at top of pipe (TOP) = 523.67 m</p> <p>Groundwater Information: Depth to groundwater from TOP = 1.16 m (May 13, 2022)</p> <p>* denotes soil sample taken for lab analysis</p>												

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE.GDT 5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)
 DRILL DATE: April 28, 2022
 LOGGED BY: AW
 DRILLED BY: Orbit Garrant

Notes: SPLIT SPOON
 NO RECOVERY



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-306S**
 SURFACE ELEVATION: **522.85 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA				WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)					
							■ SPT Count		◆ % Moisture										
							10	20	30	40	50	20	40	60	80	100			
522.85	522.72	TOPSOIL Organics (rootlets), clayey silt, trace fine sand, wormholes, soft, moist																	
		SAND Fine-medium sand (layered 1-2mm), silty, grey-brown/orange mottling, soft, loose-compact, wet																	
1	521.83	Silty SAND TILL Gravel (Rounded to sub-rounded), fine-coarse sand, trace cobbles, trace silt, grey, loose, saturated																	
	521.22	Trace gravel (sub-angular/sub-rounded), trace cobbles, increased silt with depth																	
2																			
3																			
4	518.99	grey, dense/hard (increasing with depth), moist																	
		End of monitoring well at 518.28 m																	
		Well Completion Details: Screened interval from 519.80 m to 518.28 m Elevation at top of pipe (TOP) = 523.72 m																	
		Groundwater Information: Depth to groundwater from TOP = 1.30 m (May 13, 2022)																	
		MW22-306S was straight drilled adjacent to MW22-306D																	

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE_GDT 5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)
 DRILL DATE: April 28, 2022
 LOGGED BY: AW
 DRILLED BY: Orbit Garrant

Notes:



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-307D**
 SURFACE ELEVATION: **527.91 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA		WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
							■ SPT Count	◆ % Moisture				
527.91	527.76	TOPSOIL Organics, dark brown, soft, moist	▲	0-2	50.0	SH	4				silica sand	
527.02		Clayey SILT Clayey silt, some fine-medium sand, some gravel (rounded), brown, soft, moist, high-plasticity Silty, trace clay, gravel (rounded), moist-wet	▲	2.5-4.5	75.0	SH	4					527
525.62		Silty SAND TILL Fine sand, some gravel (angular) and cobbles, light brown, dense/hard, dry-moist	▲	5-7	20.8	SH	5					526
			▲	7.5-9.5	75.0	SH	27					525
			▲	10-12	75.0	SH	>50					524
			▲	12.5-14.5	70.8	SH	>50				bentonite seal	524
			▲	15-17	79.2	SH						523
522.58		No Recovery	○		0.0		>50					522
521.81		Sandy SILT TILL Fine sand, some gravel (angular) and cobbles, light brown, dense/hard, dry-moist	▲	20-22	66.7	SH	>50					521
521.05		Wet	▲	22.5-24.5	62.5	SH	50					521
			▲	25-27	33.3	SH	>50					520
			▲	27.5-29.5	25.0	SH	>50					519
			▲	30-32	16.7	SH	>50				silica sand 50 mm Ø10 slot PVC pipe	518
			▲	32.5-34.5	8.3	SH	>50				end cap silica sand	518
			▲	35-37	50.0	SH	>50				bentonite seal	517

End of monitoring well at 516.48 m

Well Completion Details:
 Screened interval from 519.38 m to 517.85 m
 Elevation at top of pipe (TOP) = 528.81 m

Groundwater Information:
 Depth to groundwater from TOP = 2.14 m (May 13, 2022)

* denotes soil sample taken for lab analysis

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE.GDT 5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)

DRILL DATE: May 5, 2022
 LOGGED BY: RH
 DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON
 NO RECOVERY



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-307S**
 SURFACE ELEVATION: **527.97 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA				WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)					
							■ SPT Count		◆ % Moisture										
							10	20	30	40	50	20	40	60	80	100			
		MW22-307D																	

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE_GDT 5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)

DRILL DATE: May 6, 2022

LOGGED BY: RH
 DRILLED BY: Geo-Environmental

Notes:



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-308D**
 SURFACE ELEVATION: **522.35 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA		WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
							■ SPT Count	◆ % Moisture				
522.35	522.17	TOPSOIL Organics, silt, trace fine sand dark brown, soft-firm with depth, moist	▲	0-0.6	62.5	SP	8					
		Silty SAND Some medium-coarse sand, trace organics, trace silt, banded (1-3 mm), gravel (sub-rounded/rounded), brown, loose-compact, wet	▲	0.6-1.25	8.3	SP	33					522
			▲	*5-5.5	75.0	SP	20					
	520.62	Silty SAND TILL Fine sand, some clay, some gravel, some crushed cobbles, brown, low plasticity, dense, hard, moist-dry	▲	5.5-7		SP					bentonite seal	
			▲	7.5-9.5	29.2	SP	>50					520
			▲	10-12	20.8	SP	>50					519
	519.30	Trace-some medium-coarse sand, crumbly, dry	▲	12.5-14.5	12.5	SP	>50					518
	518.54	Some fine to medium sand, some gravel (sub-angular / sub-rounded), low plasticity, brown, very hard, dry	▲	15-17	33.3	SP	>50				silica sand 50 mm Ø10 slot PVC pipe	
			▲	17.5-18	16.7	SP	>50					517
	517.02	Brown-grey, crumbly, dry	▲								end-cap	
		End of monitoring well at 516.86 m										
		Well Completion Details: Screened interval from 518.39 m to 516.86 m Elevation at top of pipe (TOP) = 523.18 m										
		Groundwater Information: Depth to groundwater from TOP = 1.55 m (May 13, 2022)										
		* denotes soil sample taken for lab analysis										

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE_GDT 5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)
 DRILL DATE: April 29, 2022
 LOGGED BY: AW
 DRILLED BY: Orbit Garrant

Notes: SPLIT SPOON



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-309D**
 SURFACE ELEVATION: **521.82 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA		WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
							■ SPT Count 10 20 30 40 50	◆ % Moisture 20 40 60 80 100				
521.82	521.67	TOPSOIL Organics, dark brown, moist	▲	0-2	75.0	○	10				silica sand	
521.06		Silty SAND Medium-fine sand, silt, trace clay, light brown, orange mottling, soft, moist	▲	*2.5-4.5	29.2	○	8					521
		Silty SAND TILL Medium-fine, gravel (angular) and cobbles, silty, light brown, soft, compact, moist	▲	*5-7	41.7	○	27					520
519.53	519.28	wet Fine sand, cobbles, light brown, compact, moist-wet	▲	7.5-9.5	100.0	○						519
518.77		No Recovery	○		0.0	○	>50					518
518.01		Some orange mottling, dry-moist	▲	12.5-14.5	66.7	○	>50					518
			▲	15-17	100.0	○	>50				bentonite seal	517
			▲	17.5-19.5	70.8	○	47					516
			▲	20-22	91.7	○	44					515
			▲	22.5-24.5	100.0	○	50					514
514.20		Wet from 7.62 m to EOH	▲	25-27	41.2	○	>50					514
			▲	27.5-29.5	54.2	○	>50					513
			▲	30-32	37.5	○	>50					512
			▲	32.5-34.5	62.5	○	>50				silica sand 50 mm Ø10 slot PVC pipe	512
511.15		COBBLE Pulverized cobble	▲	35-37	66.7	○	>50				end cap silica sand bentonite seal	511

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE_GDT_5/11/23

End of monitoring well at 510.39 m

Well Completion Details:
 Screened interval from 512.68 m to 511.15 m
 Elevation at top of pipe (TOP) = 522.91 m

Groundwater Information:
 Depth to groundwater from TOP = 2.26 m (May 13, 2022)

* denotes soil sample taken for lab analysis

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)

DRILL DATE: May 3, 2022
 LOGGED BY: RH
 DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON
 NO RECOVERY



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-310**
 SURFACE ELEVATION: **523.21 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA		WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
							■ SPT Count 10 20 30 40 50	◆ % Moisture 20 40 60 80 100				
0	523.21	TOPSOIL Organics, dark brown, soft, moist	▲	0-2	100.0		5				silica sand	523
1	522.45	Silty SAND TILL Fine sand, some gravel, and cobbles, light brown, soft, moist	▲	2.5-4.5	54.2		5					522
2	521.69	Increased gravel content with depth, hard, moist-dry	▲	5.7	91.7		17					521
3	520.16	COBBLE Cobble chips, some sand and silt	○	7.5-9.5	50.0		>50					520
4	519.40	Silty SAND TILL Fine sand, clay, gravel (angular to sub-angular), cobbles, light brown, moist	▲	12.5-14.5	33.4		>50				bentonite seal	519
5	518.64	Cobble chips, dense/hard, dry	▲	15-17	41.7		>50					518
6			▲	17.5-19.5	54.2		>50					517
7	516.35	No Recovery (cobble)	○	20-22	66.7		>50					516
8	515.59	SILTY SAND TILL Fine sand, gravel (angular) and cobbles, light brown, dense, increasing silt and clay content, water coming through auger	▲	25-27	33.4		>50				silica sand 50 mm Ø10 slot PVC pipe	515
9			▲	27.5-29.5	25.0		>50				end cap	

SLR BOREHOLE LOG (MOISTURE)_209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE_GDT_5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)
 DRILL DATE: May 3, 2022
 LOGGED BY: RH
 DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON
 NO RECOVERY



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-311**
 SURFACE ELEVATION: **521.05 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA		WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
							■ SPT Count	◆ % Moisture				
521.05		TOPSOIL		0-0.75	66.7		16					521
520.82		Fine sand, silt, some organics (rootlets), dark brown, soft, moist		0.75-1.0							bentonite seal	
520.29		Silty SAND TILL Trace medium-coarse sand, silty, brown, orange-dark brown mottling, soft, moist-wet Large cobble		2.5-2.75	12.5		14					
519.53		Increased medium-coarse sand, silty, trace-some gravel (sub-angular / sub-rounded), cobbles, trace clay, brown, dense/hard, saturated-moist, increasing gravel/cobbles with depth		5-7	29.2		9					
				7.5-9.5	29.2		>50					
				10-12	41.7		>50					
				12.5-14.5	8.3		>50				grout	
516.48		Grey, very dense, moist		15-17	16.7		>50					
515.72		No recovery			0.0		>50					
514.95		Sandy SILT TILL Fine-coarse sand, some gravel (sub-angular/sub-rounded), trace clay, crushed cobbles, grey, very dense, moist		20-22	20.8		>50				bentonite seal	
				22.5-24.5	20.8		>50					
513.43		No recovery			0.0		>50					
512.67		Sandy SILT TILL Silty, some gravel, grey, very dense, moist-saturated		27.5-29.5	45.8		>50				silica sand 50 mm Ø10 slot PVC pipe	
9		End of monitoring well at 512.03 m Well Completion Details: Screened interval from 513.56 m to 512.03 m Elevation at top of pipe (TOP) = 521.88 m Groundwater Information: Depth to groundwater from TOP = 2.75 m (May 13, 2022) * denotes soil sample taken for lab analysis									end-cap	

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE.GDT 5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)
 DRILL DATE: April 26, 2022
 LOGGED BY: AW
 DRILLED BY: Orbit Garrant

Notes: SPLIT SPOON
 NO RECOVERY



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-312**
 SURFACE ELEVATION: **520.61 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA		WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
							■ SPT Count 10 20 30 40 50	◆ % Moisture 20 40 60 80 100				
0	520.61	TOPSOIL		0-2	91.7		4					
0.15	520.15	Silty SAND TILL Fine to medium sand, trace silt, trace gravel (sub-angular-angular), brown, orange mottling, loose, soft, wet										520
1.0	519.54	Fine sand, brown-grey, compact/hard, moist-wet		2.5-4.5	62.5		10					
1.1	519.09	No orange mottling onward										519
2.0				5-7	20.8		15					
3.0				7.5-9.5	37.5		18					518
3.1	517.56	SAND and GRAVEL Fine sand, trace coarse sand, trace cobble, trace silt, brown-grey, soft, dense, wet		10-12	20.8		38					517
4.0				12.5-14.5	66.7		37					
4.1	516.04	Trace gravel, trace silt, grey, dense, moist										516
4.2	516.01	Silty SAND TILL Trace gravel, grey, very dense, very hard, moist		15-17	16.7		>50					
5.0												
<p>End of monitoring well at 515.28 m</p> <p>Well Completion Details: Screened interval from 517.56 m to 516.04 m Elevation at top of pipe (TOP) = 521.66 m</p> <p>Groundwater Information: Depth to groundwater from TOP = 1.25 m (May 13, 2022)</p> <p>* denotes soil sample taken for lab analysis</p>												

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE.GDT 5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)
 DRILL DATE: April 20, 2022
 LOGGED BY: MJ
 DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-313D**
 SURFACE ELEVATION: **520.00 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA				WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)					
							SPT Count		% Moisture										
							10	20	30	40	50	20	40	60	80	100			
520.00	519.87	TOPSOIL Fine sandy silt, organics (rootlets), trace clay, dark brown, soft, moist																	
519.24		Sandy SILT TILL Silty, trace medium-coarse sand, trace clay, brown, dark brown mottling, soft, moist, high plasticity Trace gravel (sub-angular/sub-rounded), increased gravel with depth, trace cobbles, saturated																	
1																			
2																			
517.56		Silty fine sand, firm-hard, moist																	
3																			
516.95		Orange mottling/staining (oxidation)																	
4																			
516.19		No recovery																	
5																			
515.43		Silty SAND TILL Silty fine sand, some gravel (sub-rounded/sub-angular), firm-hard, moist																	
6																			
513.90		Silty, cobble chips, wet	20-22		37.5						>50								
7																			
513.14		Coarse sand, silty, gravel (angular), cobble chips, trace clay, light brown, dense, wet-moist	22.5-24.5		33.3						>50								
8																			
25-27					83.3						>50								
9																			
27.5-29.5					70.8						>50								
10																			
30-32					33.3						>50								
11																			
510.09		No Recovery			0.0						>50								
509.33		Sandy SILT TILL Fine sand, clay, gravel, light brown, wet	35-37		20.8						>50								
		End of monitoring well at 508.57 m																	
		Well Completion Details: Screened interval from 510.86 m to 509.33 m Elevation at top of pipe (TOP) = 521.06 m																	
		Groundwater Information: Depth to groundwater from TOP = 5.93 m (May 13, 2022)																	
		* denotes soil sample taken for lab analysis																	

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE_GDT_5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)
 DRILL DATE: May 5, 2022
 LOGGED BY: RH
 DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON
 NO RECOVERY



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-313S**
 SURFACE ELEVATION: **520.03 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA		WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
							■ SPT Count 10 20 30 40 50	◆ % Moisture 20 40 60 80 100				
520.03	519.90	TOPSOIL Fine sandy silt, organics (rootlets), trace clay, dark brown, soft, moist	▲	0-2	25.0	●	10					
519.27		Sandy SILT TILL Silty, trace medium-coarse sand, trace clay, brown, dark brown mottling, soft, moist, high plasticity	▲	2.5-4.5	58.3	●	13					519
1		Trace gravel (sub-angular/sub-rounded), increased gravel with depth, trace cobbles, saturated	▲	5-7	54.2	●	14				bentonite seal	518
2			▲	8-9.5	79.2	●	34					517
3	517.59	Silty fine sand, firm-hard, moist	▲	10-12	25.0	●	>50					516
4	516.98	Orange mottling/staining (oxidation)	▲			○	>50					516
4	516.22	No recovery	○		0.0	○	>50					516
5	515.46	Silty SAND TILL Silty fine sand, some gravel (sub-rounded/sub-angular), firm-hard, moist	▲	15-17	25.0	●	>50				silica sand	515
			○		4.2	●	>50				50 mm Ø10 slot PVC pipe	515
		End of monitoring well at 514.09 m									end-cap	
		Well Completion Details: Screened interval from 515.61 m to 514.09 m Elevation at top of pipe (TOP) = 520.85 m										
		Groundwater Information: Depth to groundwater from TOP = 1.19 m (May 13, 2022)										
		* denotes soil sample taken for lab analysis										

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE.GDT 5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)

DRILL DATE: April 27, 2022 LOGGED BY: AW
 DRILLED BY: Orbit Garrant

Notes: SPLIT SPOON
 NO RECOVERY



CLIENT: **Dundalk Village Two Inc.**
 PROJECT: **Dundalk Northeast Southgate, ON**
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-314**
 SURFACE ELEVATION: **517.28 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA		WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
							■ SPT Count 10 20 30 40 50	◆ % Moisture 20 40 60 80 100				
517.28	517.13	TOPSOIL										
		SAND Silty, occasional medium sand, trace gravel, brown, orange-black mottling, loose, firm, moist		0-2	70.8		4				cement	517
516.52		Silty SAND TILL Fine sand, some cobbles, brown-grey, loose, firm, wet		2.5-4.5	41.7		14					516
515.76	515.65	Some silt, occasional coarse sand, trace gravel, brown/grey - orange mottling, loose, soft-firm, wet Orange mottling, loose, firm, wet		5-7	41.7		6					
514.99		fine-medium sand, some gravel (angular), trace cobble, trace clay, brown-grey, dense, firm, moist-dry, increasing gravel content with depth		7.5-9.5	41.7		>50				bentonite seal	515
				10-12	41.7		39					514
				12.5-14.5	33.3		>50					513
512.71		loose, sands and gravel layer		15-17	33.3		>50				silica sand 50 mm Ø10 slot PVC pipe	512
				17.5-19.5	66.7		>50					
				20-22	37.5		>50				end cap silica sand	511
											bentonite seal	
		End of monitoring well at 510.42 m										
		Well Completion Details: Screened interval from 512.71 m to 511.18 m Elevation at top of pipe (TOP) = 518.25 m										
		Groundwater Information: Depth to groundwater from TOP = 1.55 m (May 13, 2022)										
		* denotes soil sample taken for lab analysis										

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE_GDT 5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)

Notes: SPLIT SPOON

DRILL DATE: April 20, 2022
 LOGGED BY: MJ
 DRILLED BY: Geo-Environmental



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-315**
 SURFACE ELEVATION: **518.81 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA		WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
							■ SPT Count	◆ % Moisture				
518.81	518.81	TOPSOIL		0-0.4	50.0		5	5				518.81
518.61	518.61	Sandy SILT TILL Some clay, trace gravel, orange-black mottling, brown, firm, loose, moist		DUP-3B							cement	518.61
1	518.05	Trace medium sand, hard, moist, increasing density and gravel content with depth		2.5-5	33.3		9					518.05
2	517.29	Firm, compact, moist		5-7.5	66.7		15					517.29
				7.5-10	100.0		48					516.7
				10-12.5	41.7		>50					515.7
				12.5-15	62.5		>50					514.7
				15-17.5	83.3		49					513.7
				17.5-20	79.2		>50				bentonite seal	512.7
				20-22.5	79.2		34					511.7
				22.5-25	54.2		>50					510.7
				25-27.5	37.5		>50					509.7
				27.5-30	54.2		>50					508.7
				30-32.5	16.7		>50					507.7
				32.5-35	8.3		>50					506.7
				35-37.5	20.8		>50					505.7
				37.5-40	33.3		>50					504.7
				40-42.5	41.7		>50					503.7
	506.41	SAND Fine-medium sand, gravel (angular), light grey, firm, compact, wet									silica sand 50 mm Ø10 slot PVC pipe	506.41
		End of monitoring well at 505.86 m									end cap silica sand bentonite seal	505.86

* denotes soil sample taken for lab analysis

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)

Notes: SPLIT SPOON

DRILL DATE: April 28, 2022

LOGGED BY: MJ
 DRILLED BY: Geo-Environmental

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_AM_2022.11.17.GPJ_SLR_CAN V5.2 MOISTURE.GDT 5/11/23



CLIENT: **Dundalk Village Two Inc.**
 PROJECT:
 ADDRESS: **Dundalk Northeast Southgate, ON**
 SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: **MW22-316**
 SURFACE ELEVATION: **520.07 m**

SLR CONSULTING (CANADA) LTD.

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA		WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
							■ SPT Count	◆ % Moisture				
520.07	519.84	TOPSOIL Organics, dark brown, moist		0-2	37.5		6				silica sand	520
1		Silty SAND TILL Fine sand, silt, gravel (angular), trace clay, light brown, soft, moist		*2.5-4.5 DUP-3E	37.5		12					519
2				*5-7	33.3		13					518
3	517.78	Cobbles, light brown, dense/hard, dry		7.5-9.5	83.3		35					517
4	516.26	COBBLE Cobble chips, dry		10-12	58.3		>50				bentonite seal	516
5				12.5-14.5	20.8		>50					516
6	514.74	No Recovery		15-17			>50					515
7	513.97	Silty SAND TILL Fine sand, gravel (angular), light brown-grey, dense/hard, dry		20-22	45.8		>50					514
8	512.45	Wet from 7.62 to EOH		22.5-24.5	50.0		>50					513
9				25-27	45.8		>50					512
				27.5-29.5	37.5		>50				silica sand 50 mm Ø10 slot PVC pipe	511
End of monitoring well at 510.93 m												
Well Completion Details: Screened interval from 512.45 m to 510.93 m Elevation at top of pipe (TOP) = 521.04 m												
Groundwater Information: Depth to groundwater from TOP = 2.37 m (May 13, 2022)												
* denotes soil sample taken for lab analysis												

SLR BOREHOLE LOG (MOISTURE)_209.30125.00003_AM_2022.11.17.GPJ SLR_CAN V5.2 MOISTURE.GDT 5/11/23

DRILLING METHOD: Hollow Stem Auger Drilling
 BOREHOLE DIAMETER: 0.2 m (OD)
 DRILL DATE: May 4, 2022
 LOGGED BY: RH
 DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON
 NO RECOVERY



Appendix C Groundwater Data

Hydrogeological Assessment

Glenelg Phase 3

Dundalk Village Two Inc.

SLR Project No.: 209.30125.00003

May 25, 2023

Table C-1: Groundwater Elevations in Monitoring Wells

Monitor ID	Units	13-May-22	13-Jul-22	20-Sep-22	25-Nov-22	28-Mar-23
MW22-301	mbgs	0.16	2.57	3.70	4.76	0.78
	masl	530.83	528.42	527.29	526.23	530.21
MW22-302	mbgs	1.68	2.15	3.49	2.94	1.21
	masl	520.96	520.49	519.15	519.70	521.43
MW22-303	mbgs	0.77	1.37	2.55	0.85	0.57
	masl	517.58	516.98	515.80	517.50	517.78
MW22-304	mbgs	0.71	1.80	3.08	3.68	0.12
	masl	522.80	521.71	520.43	519.83	523.39
MW22-305	mbgs	0.46	1.31	2.59	2.50	0.00
	masl	523.28	522.43	521.15	521.24	523.74
MW22-306S	mbgs	0.43	1.30	2.48	1.75	0.15
	masl	522.42	521.55	520.37	521.10	522.70
MW22-306D	mbgs	0.33	1.24	2.36	1.61	0.02
	masl	522.52	521.60	520.48	521.23	522.82
MW22-307S	mbgs	1.41	2.23	3.95	4.48	0.37
	masl	526.56	525.74	524.02	523.49	527.60
MW22-307D	mbgs	1.24	2.06	3.69	4.13	0.18
	masl	526.67	525.85	524.22	523.78	527.73
MW22-308S	mbgs	0.67	1.75	2.52	2.08	Frozen
	masl	521.54	520.45	519.69	520.12	Frozen
MW22-308D	mbgs	0.72	1.89	2.81	2.22	Frozen
	masl	521.63	520.46	519.54	520.13	Frozen
MW22-309S	mbgs	1.15	-	-	2.82	0.13
	masl	520.70	-	-	519.03	521.72
MW22-309D	mbgs	1.17	-	-	2.89	0.17
	masl	520.65	-	-	518.93	521.65

Table C-1: Groundwater Elevations in Monitoring Wells

Monitor ID	Units	13-May-22	13-Jul-22	20-Sep-22	25-Nov-22	28-Mar-23
MW22-310	mbgs	1.27	1.96	3.57	3.37	0.26
	masl	521.94	521.25	519.64	519.84	522.95
MW22-311	mbgs	1.91	2.56	3.71	3.69	1.40
	masl	519.14	518.49	517.34	517.36	519.65
MW22-312	mbgs	0.20	1.03	2.25	1.70	Frozen
	masl	520.41	519.58	518.36	518.91	Frozen
MW22-313S	mbgs	0.36	1.43	2.50	2.11	Frozen
	masl	519.67	518.60	517.53	517.92	Frozen
MW22-313D	mbgs	4.87	1.59	2.22	2.09	-0.01
	masl	515.13	518.42	517.78	517.92	520.01
MW22-314	mbgs	0.58	1.43	2.57	1.89	0.01
	masl	516.70	515.85	514.71	515.39	517.27
MW22-315	mbgs	2.97	3.96	5.18	5.01	2.25
	masl	515.84	514.85	513.63	513.80	516.56
MW22-316	mbgs	1.40	2.14	3.46	2.89	0.86
	masl	518.67	517.94	516.62	517.18	519.21

Table C-2: Groundwater Elevations in Mini-Piezometers

Monitor ID	Units	13-May-22	13-Jul-22	20-Sep-22	25-Nov-22	28-Mar-23
MP1S	mbgs	-0.19	0.08	0.77	-0.07	-0.29
	masl	520.01	519.74	519.05	519.89	520.11
MP1D	mbgs	-0.20	0.05	0.77	-0.09	-0.30
	masl	520.01	519.76	519.04	519.90	520.11
MP2S	mbgs	-0.25	-0.35	0.69	0.11	-0.36
	masl	517.13	517.23	516.19	516.77	517.24
MP2D	mbgs	-0.20	0.52	0.78	0.22	-0.28
	masl	517.13	516.41	516.15	516.71	517.21
MP3S	mbgs	0.34	0.42	0.99	0.45	-0.09
	masl	516.73	516.65	516.08	516.62	517.16
MP3D	mbgs	1.70	0.27	0.91	0.36	-0.19
	masl	515.26	516.69	516.05	516.60	517.16
MP4S	mbgs	-0.03	Dry @ 0.86	0.00	0.54	-0.09
	masl	523.65	Dry @ 522.76	Dry @ 522.76	523.08	523.71
MP4D	mbgs	0.22	1.46	0.00	1.45	-0.14
	masl	523.36	522.12	Dry @ 521.83	522.14	523.72
MP5S	mbgs	-0.79	Dry @ 0.95	0.00	-0.30	-0.01
	masl	523.54	Dry @ 521.80	Dry @ 521.84	523.05	522.76
MP5D	mbgs	0.02	1.23	0.00	-0.37	-0.09
	masl	522.65	521.44	Dry @ 520.91	523.04	522.76
MP6S	mbgs	-0.04	0.36	0.00	0.62	-0.28
	masl	520.95	520.55	Dry @ 519.95	520.30	521.19
MP6D	mbgs	-0.23	0.11	1.21	0.41	-0.34
	masl	521.12	520.78	519.68	520.48	521.23

Table C-3a: Vertical Hydraulic Gradients - Monitoring Wells

Well ID	13-May-22	13-Jul-22	20-Sep-22	25-Nov-22	28-Mar-23
MW22-306					
Shallow groundwater elevations (masl)	522.42	521.55	520.37	521.10	522.70
Deep groundwater elevations (masl)	522.52	521.60	520.48	521.23	522.82
Hydraulic gradient (m/m)	-0.07	-0.03	-0.08	-0.09	-0.09
MW22-307					
Shallow groundwater elevations (masl)	526.56	525.74	524.02	523.49	527.60
Deep groundwater elevations (masl)	526.67	525.85	524.22	523.78	527.73
Hydraulic gradient (m/m)	-0.04	-0.05	-0.08	-0.12	-0.05
MW22-308					
Shallow groundwater elevations (masl)	521.54	520.45	519.69	520.12	Frozen
Deep groundwater elevations (masl)	521.63	520.46	519.54	520.13	Frozen
Hydraulic gradient (m/m)	-0.12	-0.01	0.19	-0.01	-
MW22-309					
Shallow groundwater elevations (masl)	520.70	-	-	519.03	521.72
Deep groundwater elevations (masl)	520.65	-	-	518.93	521.65
Hydraulic gradient (m/m)	0.01	-	-	0.03	0.03
MW22-313					
Shallow groundwater elevations (masl)	519.67	518.60	517.53	517.92	Frozen
Deep groundwater elevations (masl)	515.13	518.42	517.78	517.92	520.01
Hydraulic gradient (m/m)	N.R.	0.06	-0.08	0.00	-

Notes:

masl denotes metres above sea level

Positive value denotes downward hydraulic gradients (i.e., groundwater recharge conditions)

Negative value denotes upward hydraulic gradients (i.e., groundwater discharge conditions)

N.R. denotes not representative as water levels did not fully recover following installation

Table C-3b: Vertical Hydraulic Gradients - Mini Piezometers

Well ID	13-May-22	13-Jul-22	20-Sep-22	25-Nov-22	28-Mar-23
MP1					
Shallow groundwater elevations (masl)	520.01	519.74	519.05	519.89	520.11
Deep groundwater elevations (masl)	520.01	519.76	519.04	519.90	520.11
Hydraulic gradients (m/m)	-0.01	-0.03	0.03	-0.01	-0.01
MP2					
Shallow groundwater elevations (masl)	517.13	517.23	516.19	516.77	517.24
Deep groundwater elevations (masl)	517.13	516.41	516.15	516.71	517.21
Hydraulic gradients (m/m)	0.00	-	0.05	0.08	0.03
MP3					
Shallow groundwater elevations (masl)	516.73	516.65	516.08	516.62	517.16
Deep groundwater elevations (masl)	515.26	516.69	516.05	516.60	517.16
Hydraulic gradients (m/m)	-	-0.07	0.05	0.03	0.00
MP4					
Shallow groundwater elevations (masl)	523.65	Dry	Dry	523.08	523.71
Deep groundwater elevations (masl)	523.36	522.12	Dry	522.14	523.72
Hydraulic gradients (m/m)	0.39	na	na	-	-0.01
MP5					
Shallow groundwater elevations (masl)	523.54	Dry	Dry	523.05	522.76
Deep groundwater elevations (masl)	522.65	521.44	Dry	523.04	522.76
Hydraulic gradients (m/m)	-	na	na	0.02	0.00
MP6					
Shallow groundwater elevations (masl)	520.95	520.55	Dry	520.30	521.19
Deep groundwater elevations (masl)	521.12	520.78	519.68	520.48	521.23
Hydraulic gradients (m/m)	-0.28	-0.38	na	-0.31	-0.08

Notes:

masl denotes metres above sea level

Positive value denotes downward hydraulic gradients (i.e., groundwater recharge conditions)

Negative value denotes upward hydraulic gradients (i.e., groundwater discharge conditions)

'-' indicates that a hydraulic gradient value could not be obtained as the difference in groundwater elevation was greater than the difference in length.

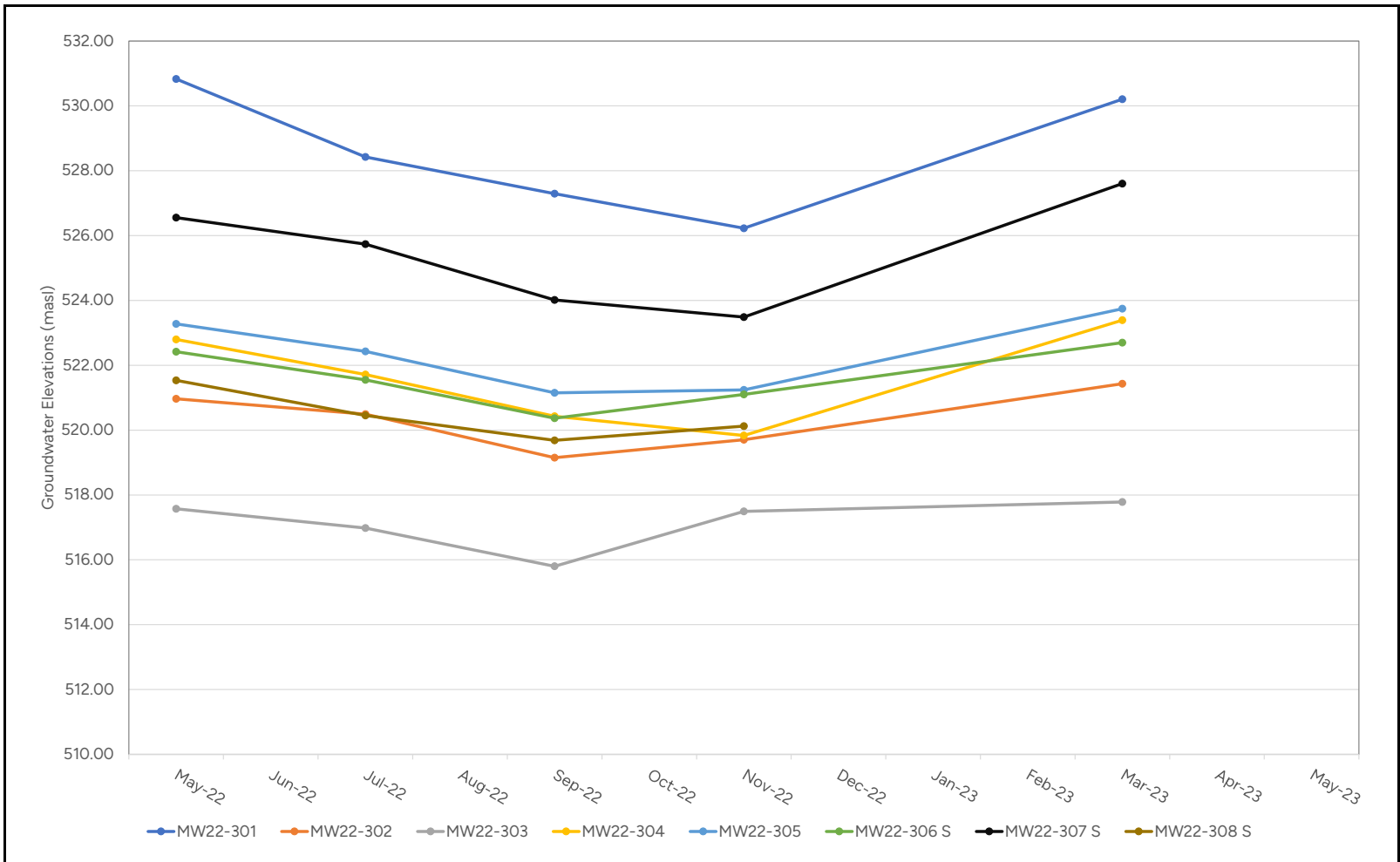


Figure C-1a

Hydrograph - Manual Measurements (Groundwater Wells)



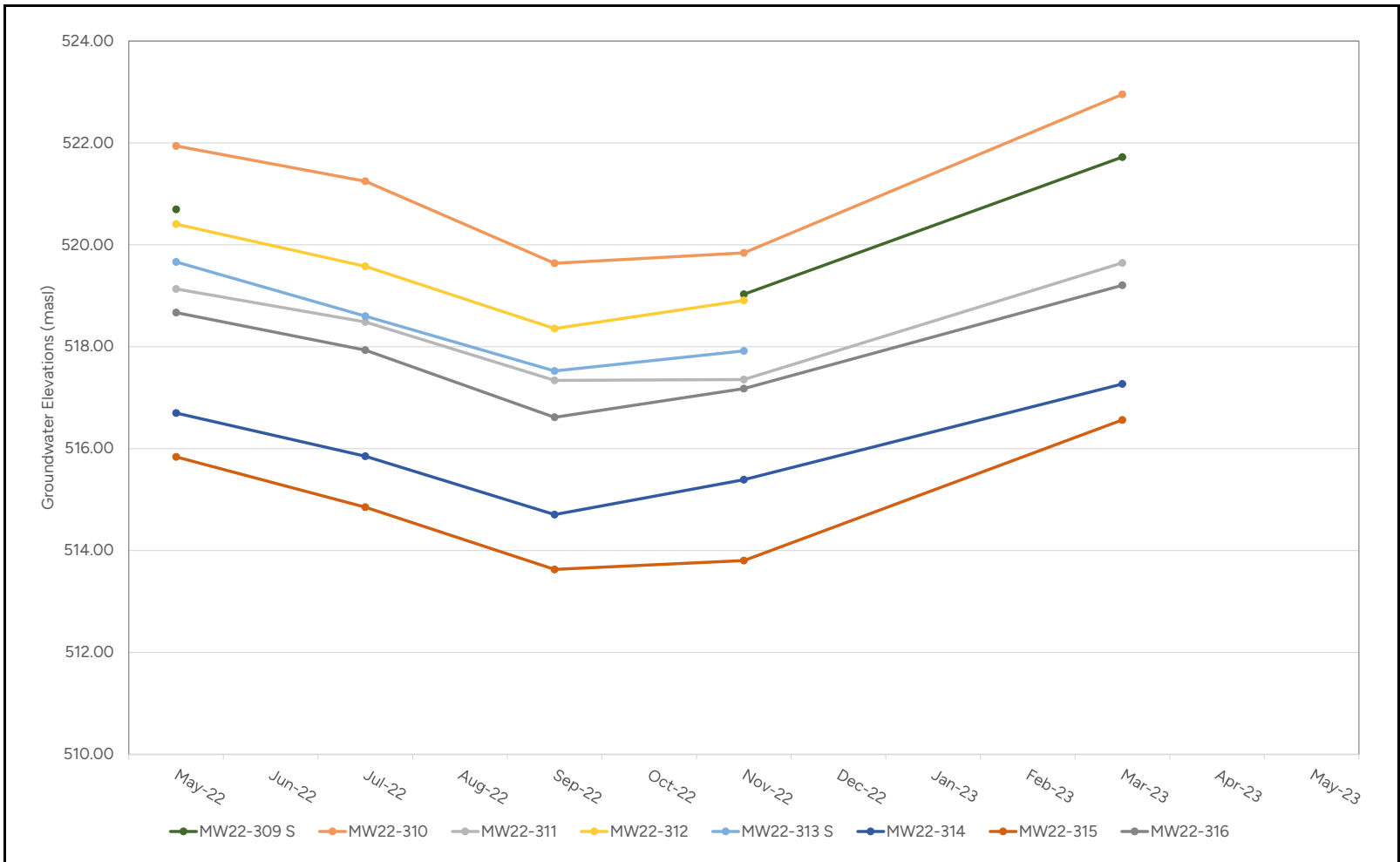


Figure C-1b

Hydrograph - Manual Measurements (Groundwater Wells)



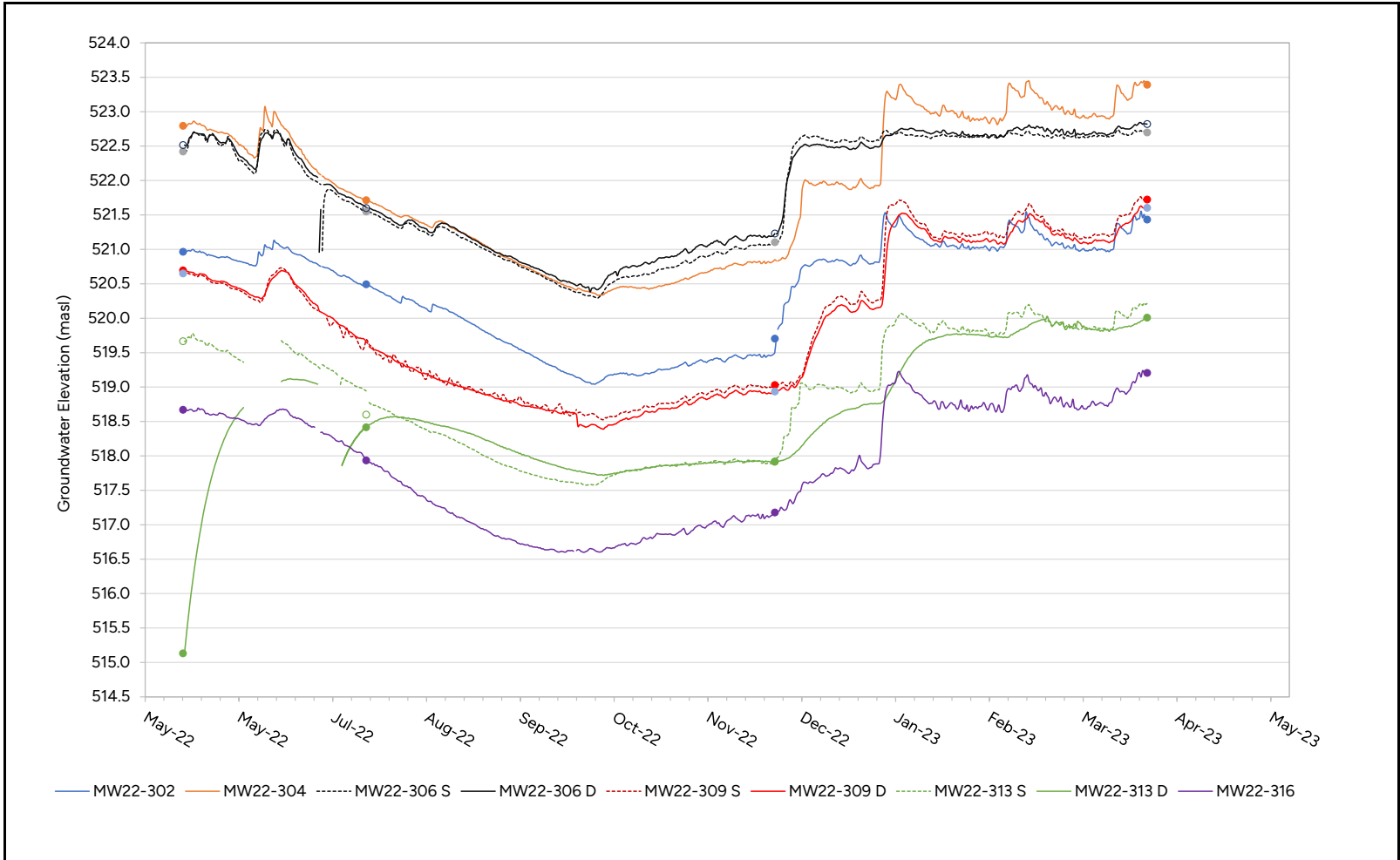


Figure C-2

Hydrograph - Continuous Groundwater Elevations (Groundwater Wells)



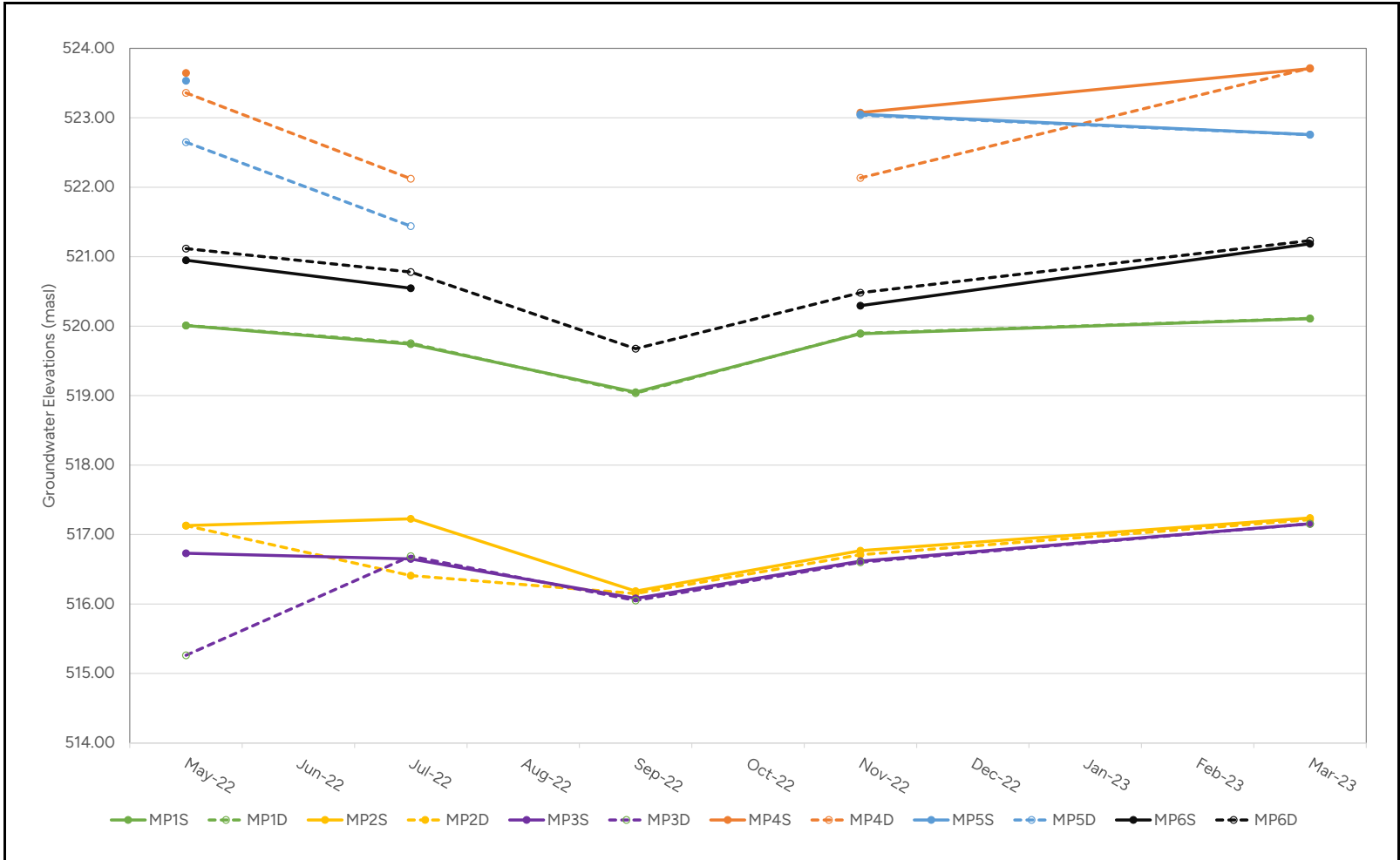


Figure C-3

Hydrograph - Manual Measurements (Mini-Piezometers)



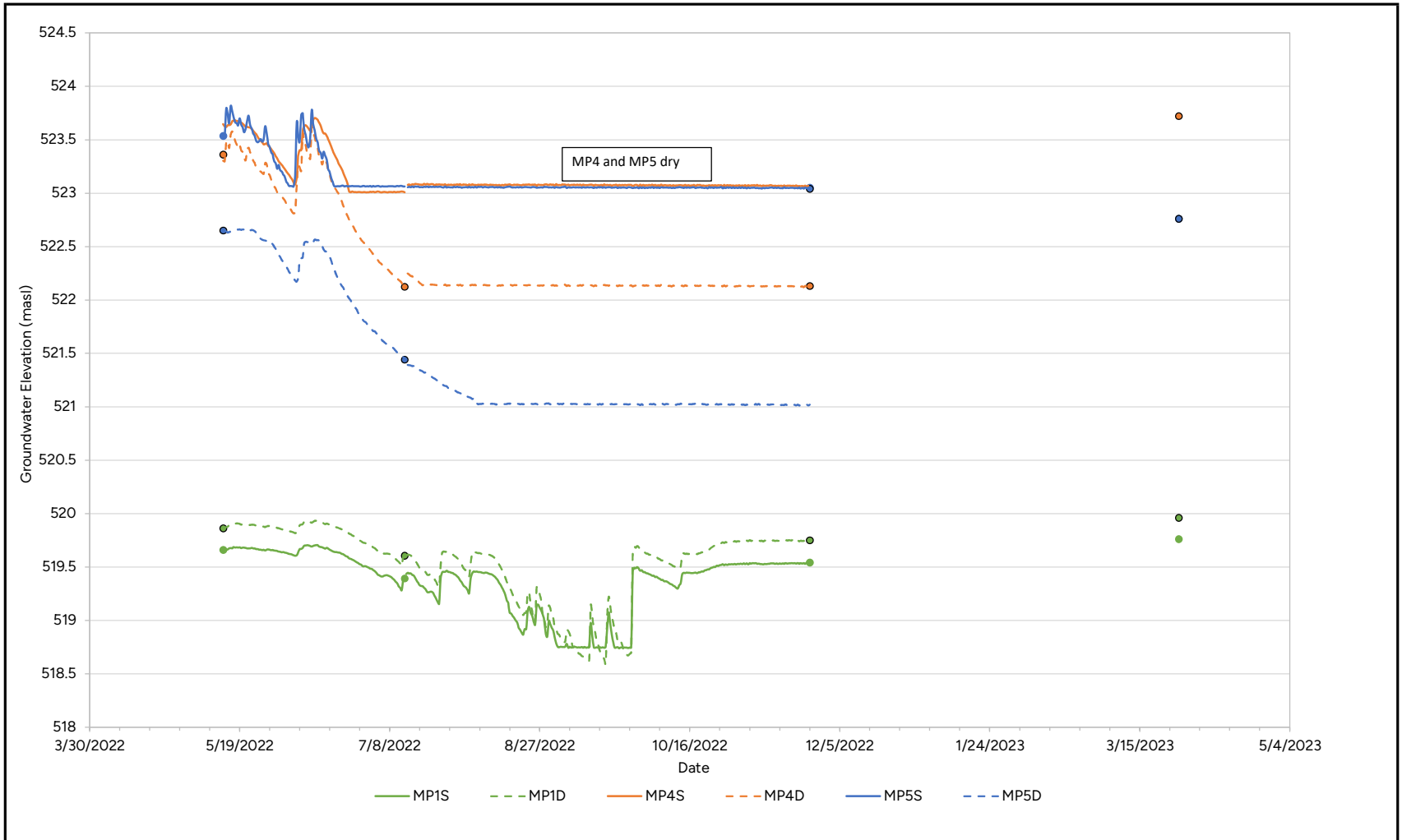


Figure C-4

Hydrograph - Continuous Groundwater Elevations (mini-piezometers)





Appendix D Hydraulic Conductivity Analyses

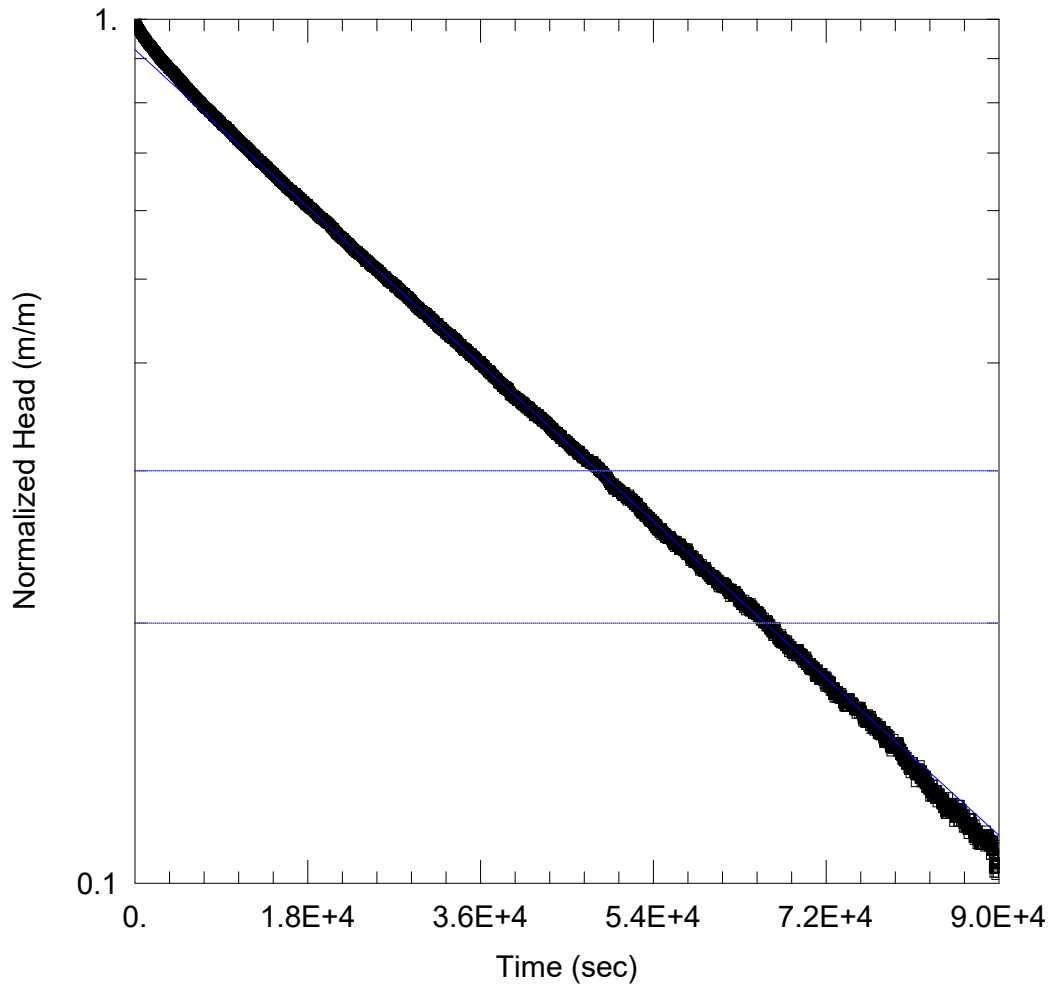
Hydrogeological Assessment

Glenelg Phase 3

Dundalk Village Two Inc.

SLR Project No.: 209.30125.00003

May 25, 2023



WELL TEST ANALYSIS

Data Set: N:\...\MW22-306D_AM.aqt
 Date: 07/27/22

Time: 12:08:33

PROJECT INFORMATION

Project: 209.30125.00003
 Location: Dundalk North
 Test Date: 6/27/2022

AQUIFER DATA

Saturated Thickness: 8.265 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW22-306D)

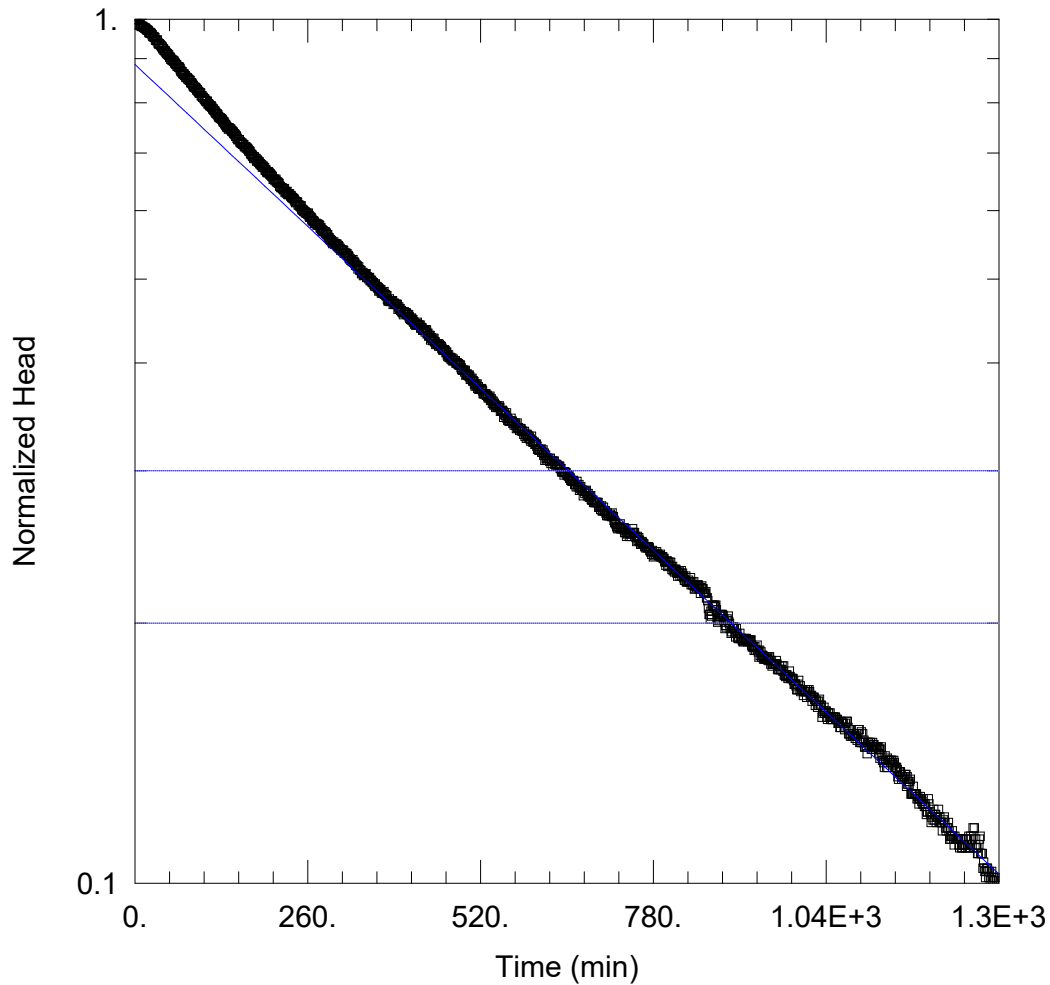
Initial Displacement: 1.472 m
 Total Well Penetration Depth: 8.208 m
 Casing Radius: 0.0254 m

Static Water Column Height: 8.265 m
 Screen Length: 3.048 m
 Well Radius: 0.1016 m

SOLUTION

Aquifer Model: Unconfined
 K = 7.592E-9 m/sec

Solution Method: Bouwer-Rice
 y0 = 1.357 m



WELL TEST ANALYSIS

Data Set: N:\...\MW22-306S_AM.aqt
 Date: 07/27/22

Time: 16:59:39

PROJECT INFORMATION

Company: SLR Consulting
 Client: FLATO Developments Inc.
 Project: 209.30125
 Location: Dundalk North
 Test Well: MW22-306S
 Test Date: June 28, 2022

AQUIFER DATA

Saturated Thickness: 3.62 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW22-306S)

Initial Displacement: 1.183 m
 Total Well Penetration Depth: 3.62 m
 Casing Radius: 0.0254 m

Static Water Column Height: 3.62 m
 Screen Length: 1.52 m
 Well Radius: 0.1016 m

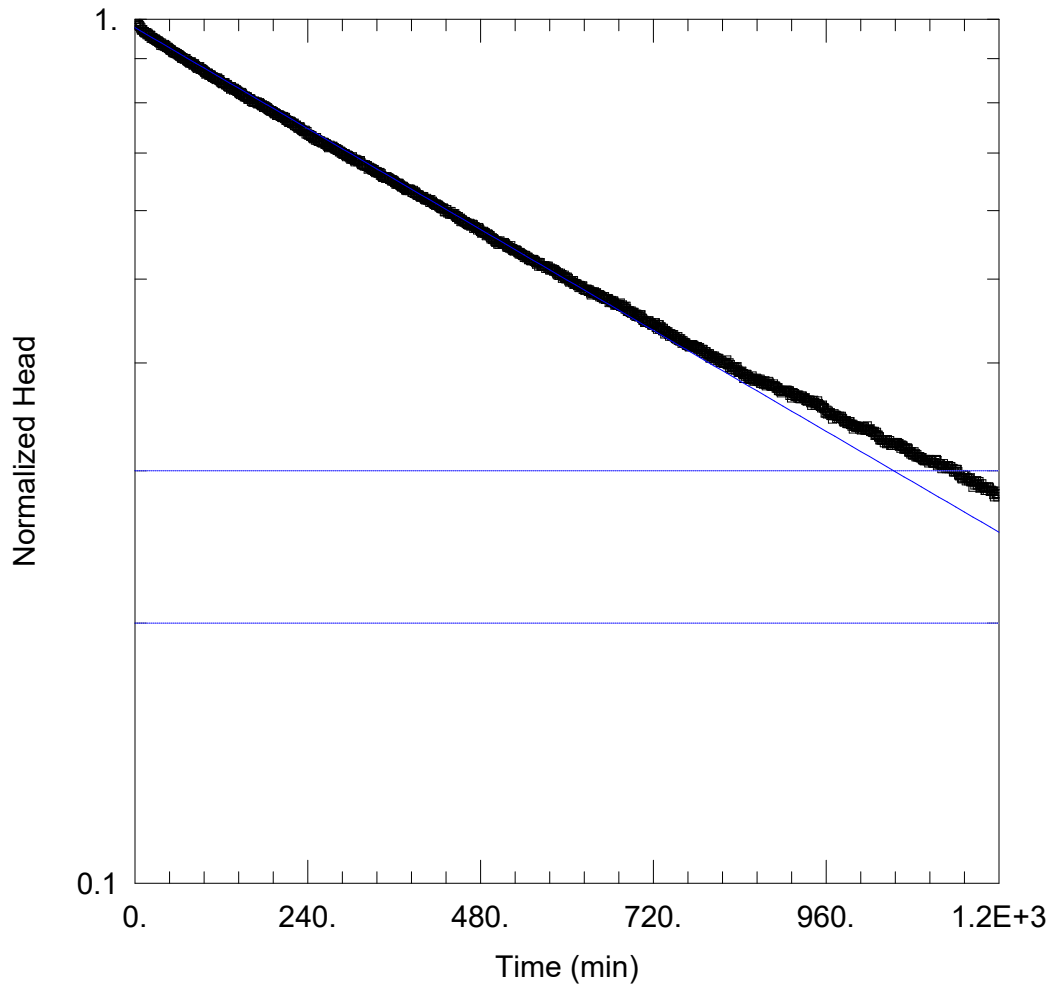
SOLUTION

Aquifer Model: Unconfined

Solution Method: Bower-Rice

K = 1.439E-8 m/sec

y0 = 1.048 m



WELL TEST ANALYSIS

Data Set: N:\...\MW22-309S_AM.aqt
 Date: 07/28/22

Time: 06:57:49

PROJECT INFORMATION

Company: SLR Consulting
 Client: FLATO Developments Inc.
 Project: 209.30125
 Location: Dundalk North
 Test Well: MW22-309S
 Test Date: June 27, 2022

AQUIFER DATA

Saturated Thickness: 4.35 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW22-309S)

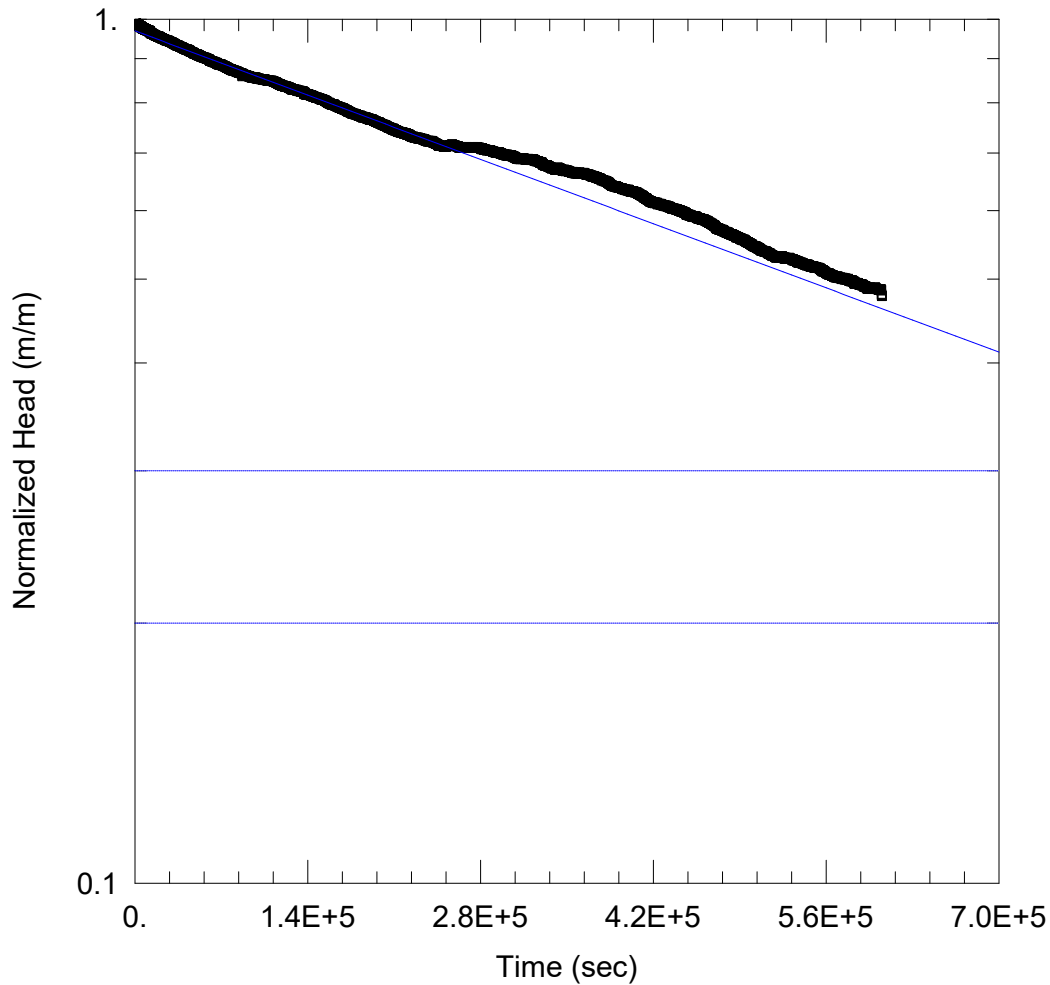
Initial Displacement: 1.14 m
 Total Well Penetration Depth: 4.35 m
 Casing Radius: 0.0254 m

Static Water Column Height: 4.35 m
 Screen Length: 1.53 m
 Well Radius: 0.1016 m

SOLUTION

Aquifer Model: Unconfined
 K = 1.003E-8 m/sec

Solution Method: Bower-Rice
 y0 = 1.114 m



WELL TEST ANALYSIS

Data Set: N:\...\MW22-313D_JH.aqt
 Date: 09/02/22

Time: 08:28:59

PROJECT INFORMATION

Company: SLR
 Client: Flato
 Project: 209.30125.00003
 Location: Dundalk North
 Test Well: MW22-313D

AQUIFER DATA

Saturated Thickness: 10.05 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW22-313D)

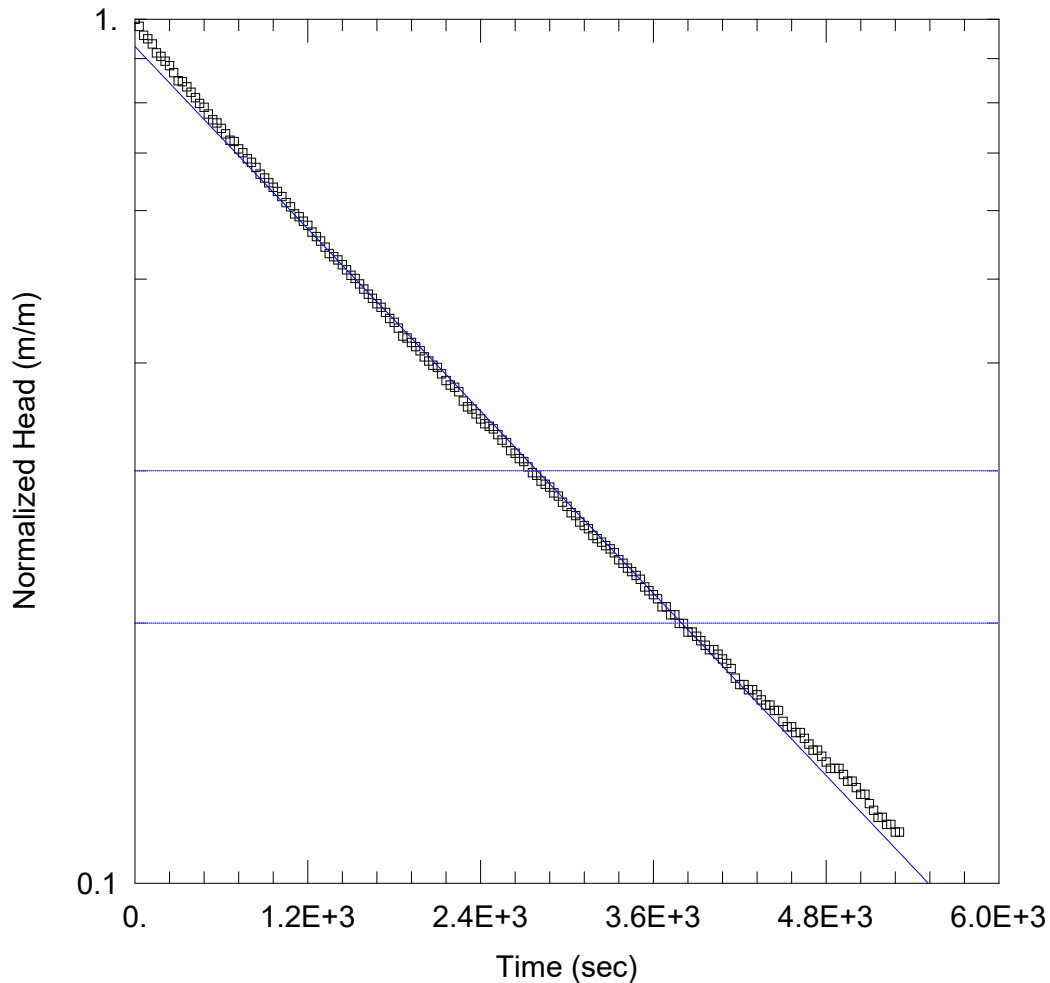
Initial Displacement: 2.907 m
 Total Well Penetration Depth: 10.05 m
 Casing Radius: 0.0254 m

Static Water Column Height: 10.05 m
 Screen Length: 1.524 m
 Well Radius: 0.1016 m

SOLUTION

Aquifer Model: Unconfined
 K = 7.628E-10 m/sec

Solution Method: Bower-Rice
 y0 = 2.817 m



WELL TEST ANALYSIS

Data Set: N:\...\MW22-313S_JH.aqt
 Date: 07/29/22

Time: 12:13:07

PROJECT INFORMATION

Company: SLR
 Client: Flato
 Project: 209.30125.00003
 Location: Dundalk North
 Test Well: MW22-313S

AQUIFER DATA

Saturated Thickness: 4.825 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW22-313S)

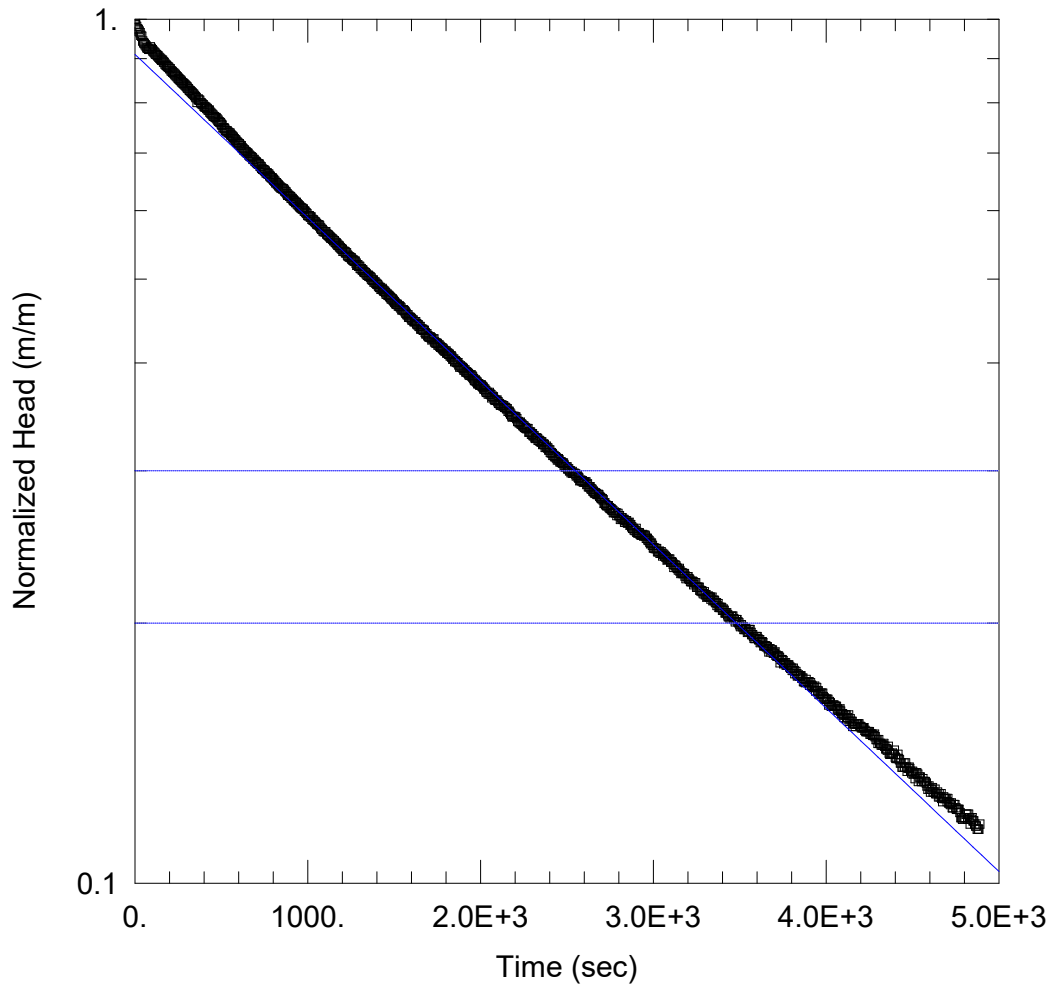
Initial Displacement: 1.216 m
 Total Well Penetration Depth: 4.825 m
 Casing Radius: 0.0254 m

Static Water Column Height: 4.825 m
 Screen Length: 1.524 m
 Well Radius: 0.1016 m

SOLUTION

Aquifer Model: Unconfined
 K = 2.226E-7 m/sec

Solution Method: Bower-Rice
 y0 = 1.13 m



WELL TEST ANALYSIS

Data Set: N:\...\MW22-316_JH.aqt
 Date: 07/29/22

Time: 12:14:11

PROJECT INFORMATION

Company: SLR
 Client: Flato
 Project: 209.30125.00003
 Location: Dundalk North
 Test Well: MW22-316

AQUIFER DATA

Saturated Thickness: 7.369 m

Anisotropy Ratio (Kz/Kr): 1.

WELL DATA (MW22-316)

Initial Displacement: 1.763 m
 Total Well Penetration Depth: 7.369 m
 Casing Radius: 0.0254 m

Static Water Column Height: 7.369 m
 Screen Length: 1.524 m
 Well Radius: 0.1016 m

SOLUTION

Aquifer Model: Unconfined
 K = 2.585E-7 m/sec

Solution Method: Bower-Rice
 y0 = 1.605 m



Appendix E MECP Water Well Records

Hydrogeological Assessment

Glenelg Phase 3

Dundalk Village Two Inc.

SLR Project No.: 209.30125.00003

May 25, 2023

Table E-1: Summary of MECP Well Records

Well ID	Well Tag	Date Drilled	Well Depth (m)	Bottom Lithology	Water Use	Water Status	Depth Water at Found (m)	Static Level (m)	Pumping Rate (L/s)
1700350		26-Jul-67	31.1	Rock	Water Supply	Livestock	30.5	4.6	1.516
1700351		20-Feb-63	25.6	Gravel	Water Supply	Domestic	25.0	4.3	1.516
1700352		18-Oct-62	27.7	Rock	Water Supply	Domestic	19.8	7.3	0.91
1701035		6-Nov-69	36.9	Limestone	Water Supply	Livestock	35.4	7.3	0.606
1701454		6-Apr-73	64.6	Limestone	Water Supply	Domestic	64.6	12.2	1.592
1703380		5-May-87	24.4	Gravel	Water Supply	Domestic	21.3	1.8	1.516
2500876		28-Jun-53	43	Rock	Water Supply	Domestic		6.1	0.758
2500882		15-Oct-54	45.7	Limestone	Water Supply	Domestic	45.7	7.6	0.303
2500888		7-May-56	48.2	Limestone	Water Supply	Domestic	45.7	4	1.137
2500897		5-May-60	83.2	Limestone	Water Supply	Municipal	31.7	7	3.411
2500900		9-Jun-65	35.7	Gravel	Water Supply	Domestic	35.1	12.2	0.379
2502801		7-Mar-69	43.9	Rock	Water Supply	Livestock	41.1	10.7	1.137
2503215		1-Jul-70	39.6	Rock	Water Supply	Livestock	38.1	5.2	1.137
2503216		26-Jun-70	37.5	Rock	Water Supply	Livestock	35.1	12.8	0.758
2505795		17-Aug-76	40.2	Limestone	Water Supply	Domestic	39.0	18.3	0.606
2506029		15-Apr-77	33.2	Limestone	Water Supply	Domestic	32.6	11.6	1.364
2506475		29-Apr-78	28.3	Limestone	Water Supply	Domestic	28.3	3.7	1.516
2509109		15-Sep-87	55.8	Limestone	Water Supply	Domestic	55.8	16.5	0.455
2512639		30-Aug-94	42.1	Limestone	Water Supply	Domestic	33.2	17.1	0.531
2515004		25-Mar-02	100.6	Limestone	Water Supply	Municipal	47.2		
2515005		22-Apr-02	100.6	Limestone	Water Supply	Municipal	38.1		
2515188		25-Sep-02	73.5	Limestone	Water Supply	Domestic	64.0	28	0.379
2515624		4-Jun-03	43.3	Limestone	Water Supply	Domestic	36.9	8.2	0.91
2516415	A027686	9-Jun-05	6	Silt	Observation Wells	Not Used	1.5		
7041281	A005365	30-Nov-06	4.6	Silt	Test Hole	Not Used			
7049155	A047429	7-Apr-07	4.6	Silt	Observation Wells				
7116620		25-Nov-08	0		Abandoned-Other		1.2		
7155347		2-Sep-10	0		Abandoned-Other				
7155361		20-Sep-10	0		Abandoned-Other				
7166939	A117947	29-Jun-11	4.6		Test Hole	Test Hole			
7167449	A089996	20-Apr-11	32.3	Limestone	Water Supply	Domestic	32.0	2.2	3.411
7237016	A166231	3-Dec-14	6.1	Sand	Observation Wells	Monitoring	1.5		
7285238	A210321	17-Nov-16	7.6	Clay	Observation Wells	Monitoring	4.0		
7285242	A210296	15-Nov-16	7.6	Sand	Observation Wells	Monitoring			
7305297	A213693	7-Mar-17	0		Abandoned-Other	Not Used			
7305319	A213692	7-Mar-17	0		Abandoned-Other	Not Used			
7331881	A264297	5-Apr-19	4.6	Silt	Observation Wells	Monitoring	0.6	0.6	
7331882	A264292	5-Apr-19	6.1	Silt	Observation Wells	Monitoring			
7331883	A264294	5-Apr-19	4.6	Silt	Observation Wells	Monitoring	2.1	2.1	
7331884	A264296	5-Apr-19	6.1	Gravel	Observation Wells	Monitoring	2.1	2.1	
7331885	A264295	5-Apr-19	6.1	Silt	Observation Wells	Monitoring	2.1	2.1	
7331886	A264293	5-Apr-19	6.1	Silt	Observation Wells	Monitoring	1.2	1.2	
7339038	A258125	7-May-19	31.1	Limestone	Water Supply	Domestic	30.2	2.4	1.137
7367321	A295208	29-May-20	0						
7385248	_NO_TAG	17-Mar-21	0		Abandoned-Other				
7385249	_NO_TAG	17-Mar-21	0		Abandoned-Other				
7385250	_NO_TAG	17-Mar-21	0		Abandoned-Other				
7385251	_NO_TAG	17-Mar-21	0		Abandoned-Other				
7389879	A294344	24-Feb-21	0						
7397305	A336963	6-Aug-21	6.1	SILT	Observation Wells	Monitoring			

Notice of Collection of Personal Information

Personal information contained on this form is collected pursuant to sections 35-50 and 75(2) of the *Ontario Water Resources Act* and section 16.3 of the Wells Regulation. This information will be used for the purpose of maintaining a public record of wells in Ontario. This form and the information contained on the form will be stored in the Ministry's well record database and made publicly available. Questions about this collection should be directed to the Water Well Customer Service Representative at the Wells Help Desk, 125 Resources Road, Toronto Ontario M9P 3V6, at 1-888-396-9355 or wellshelpdesk@ontario.ca.

Fields marked with an asterisk (*) are mandatory.

Well Tag Number *
A336963

Type *

Construction Abandonment

Measurement recorded in: *

Metric Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name	First Name
[Redacted]	[Redacted]
Organization	Email Address
Township of Southgate	[Redacted]

Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village
[Redacted]	[Redacted]	[Redacted]	[Redacted]
Country	Province	Postal Code	Telephone Number
Canada	Ontario	[Redacted]	[Redacted]

2. Well Location

Address of Well Location

Unit Number	Street Number *	Street Name *	Township
	550	Main Street East	
Lot	Concession	County/District/Municipality	
		GREY	
City/Town	Province	Postal Code	
Dundalk	Ontario		
UTM Coordinates	Zone *	Easting *	Northing *
NAD 83	17	549142	4891746
		Test UTM in Map	Municipal Plan and Sublot Number

Other

3. Overburden and Bedrock Material *

Well Depth *	20	(ft)			
General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

				(ft)	(ft)
Black	Fill			0	5
Brown	Silt			5	12
Brown	Silt	Till		12	20

4. Annular Space *

Depth From (ft)	Depth To (ft)	Type of Sealant Used (Material and Type)	Volume Placed (cubic feet)
0	1	Concrete	0.4
1	8	Bentonite	2.67
8	20	Silica Sand	4.54

5. Method of Construction *

- Cable Tool Rotary (Conventional) Rotary (Reverse) Boring Air percussion Diamond
 Jetting Driving Digging Rotary (Air) Augering Direct Push
 Other (specify) _____

6. Well Use *

- Public Industrial Cooling & Air Conditioning
 Domestic Commercial Not Used
 Livestock Municipal Monitoring
 Irrigation Test Hole Dewatering
 Other (specify) _____

7. Status of Well *

- Water Supply Replacement Well Test Hole
 Recharge Well Dewatering Well Observation and/or Monitoring Hole
 Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality
 Abandoned, other (specify) _____
 Other (specify) _____

8. Construction Record - Casing * (use negative number(s) to indicate depth above ground surface)

Inside Diameter (in)	Open Hole or Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (ft)	Depth To (ft)
2	Plastic	0.154	-3	10
4	Steel	0.125	-3	1

9. Construction Record - Screen

Outside Diameter (in)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (ft)	Depth To (ft)
2.375	Plastic	0.01	10	20

10. Water Details

Water found at Depth (ft) Gas Kind of water Fresh Untested Other

11. Hole Diameter

Depth From (ft)	Depth To (ft)	Diameter (in)
0	20	8.5

12. Results of Well Yield Testing

Pumping Discontinued

Explain _____

If flowing give rate

Flowing _____ (GPM)

Draw down

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)														

Recovery

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (ft)													

After test of well yield, water was

Clear and sand free Other (specify)

Pump intake set at (ft)	Pumping rate (GPM)	Duration of pumping hrs + min	Final water level end of pumping (ft)	Disinfected? * <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

Recommended pump depth (ft)	Recommended pump rate (GPM)	Well production (GPM)

13. Map of Well Location *

Map 1. Please Click the map area below to import an image file to use as the map. Make map area bigger



14. Information

Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) * 2021/08/06
Comments		

15. Well Contractor and Well Technician Information

Business Name of Well Contractor * London Soil Test Ltd.		Well Contractor's License Number * 7190	
Business Address			
Unit Number	Street Number 712078	Street Name * Southgate Sdrd 71	
City/Town/Village * Dundalk		Province ON	Postal Code * N0C 1B0
Business Telephone Number 519-455-5777		Business Email Address info@londonsoil.com	
Last Name of Well Technician * McIntosh		First Name of Well Technician * Tyler	Well Technician's License Number * 4037

16. Declaration *

I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name
McIntosh

First Name
Tyler

Email Address
info@londonsoil.com

Signature

Tyler McIntosh

 Digitally signed by Tyler McIntosh
DN: cn=Tyler McIntosh, o=London Soil Test Ltd., ou,
email=info@londonsoil.com, c=CA
Date: 2021.09.08 14:42:47 -04'00'

Date Submitted (yyyy/mm/dd)

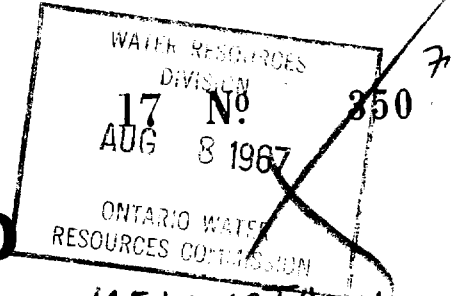
2021/09/08

17. Ministry Use Only

Audit Number

5VRV O5JH

SB



UTM 18UBJ S.R.3
5R lot 224

Elev. 5R 1730

WATER WELL RECORD

Basin 23 | DUFFERIN

Township, Village, Town or City MELANCTON

Con. 1 NE Lot PT. 224

Date completed 26 JULY 1967
(day month year)

Address DUNDALK ONT.

Casing and Screen Record

Inside diameter of casing 4"

Total length of casing 97

Type of screen

Length of screen

Depth to top of screen

Diameter of finished hole 4"

Pumping Test

Static level 15

Test-pumping rate 20 G.P.M.

Pumping level 16

Duration of test pumping 3 HRS

Water clear or cloudy at end of test CLEAR

Recommended pumping rate 15 G.P.M.

with pump setting of 25 feet below ground surface

Well Log

Overburden and Bedrock Record	From ft.	To ft.
<u>TOP SOIL</u>	<u>0</u>	<u>3</u>
<u>SAND + BOULDERS</u>	<u>3</u>	<u>25</u>
<u>SAND + GRAVEL</u>	<u>25</u>	<u>90</u>
<u>GREY SAND</u>	<u>90</u>	<u>98</u>
<u>BROWN ROCK</u>	<u>98</u>	<u>102</u>

Water Record

Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<u>100</u>	<u>FRESH</u>
<u>70</u>	
<u>102</u>	

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

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

Drilling or Boring Firm DURHAM DRILLING + ENTERPRISES LTD

Address DURHAM ONT.

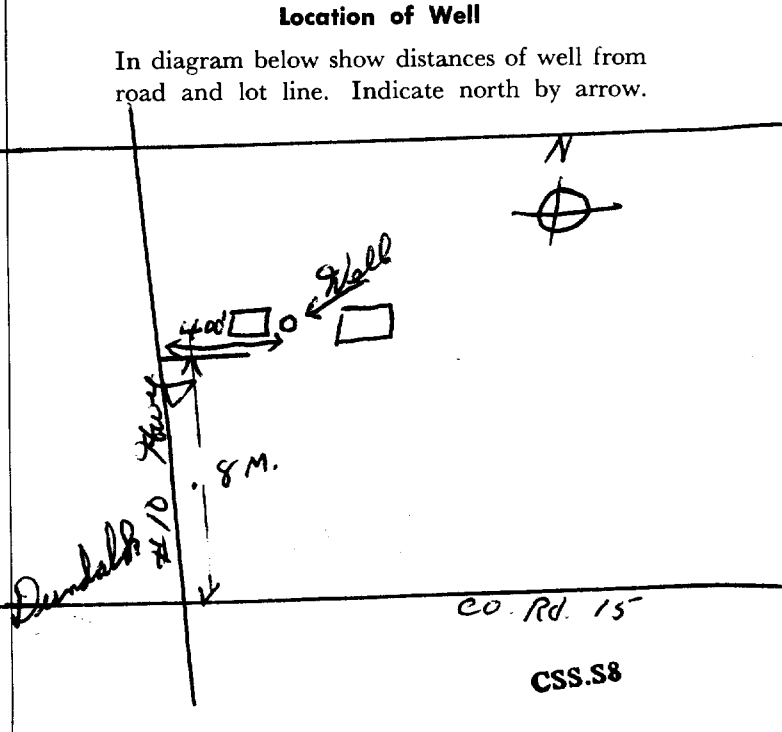
Licence Number 1791

Name of Driller or Borer ED HOTCHKISS

Address DURHAM ONT.

Date JULY 27-67

P.E. Johnston
(Signature of Licensed Drilling or Boring Contractor)



UTM *5 R 1730*



GROUND WATER BRANCH
17 MAY 1963 351
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act

WATER WELL RECORD

Basin *23*
County or District *Dufferin* Township, Village, Town or City *Dundas*
Con. *No. 10 Hwy* Lot *225 227* Date completed *20 Feb. 1963*
(day month year)
Address *Dundas*

Casing and Screen Record

Inside diameter of casing *4"*
Total length of casing *84'*
Type of screen *—*
Length of screen *—*
Depth to top of screen *—*
Diameter of finished hole *4"*

Pumping Test

Static level *14'*
Test-pumping rate *20* G.P.M.
Pumping level *17'*
Duration of test pumping *2 hrs.*
Water clear or cloudy at end of test *Clear*
Recommended pumping rate *10* G.P.M.
with pump setting of *25'* feet below ground surface

Well Log

Overburden and Bedrock Record

Stones & Boulders
Gravel & Stones
Hardpan & Boulders
Sand & Gravel
Gravel

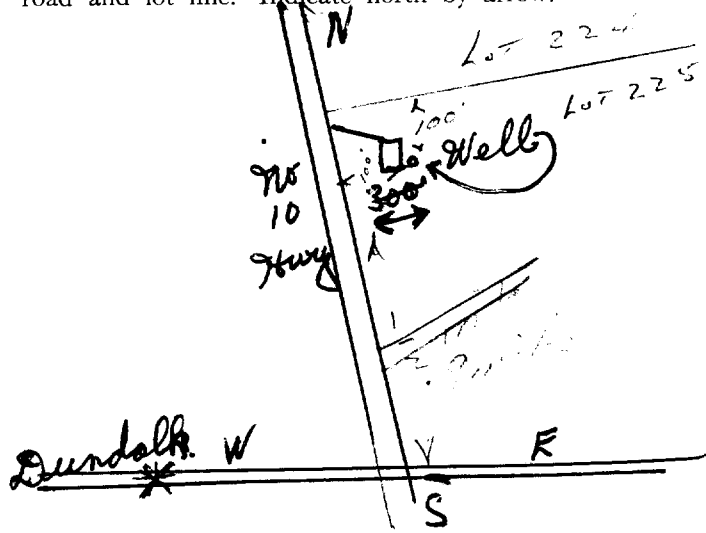
Water Record

From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
<i>0</i>	<i>20'</i>		
<i>20'</i>	<i>42'</i>	<i>82'</i>	
<i>42'</i>	<i>64'</i>	<i>84'</i>	<i>Fresh</i>
<i>64'</i>	<i>72'</i>		
<i>72'</i>	<i>84'</i>		

For what purpose(s) is the water to be used? *House hold use.*
Is well on upland, in valley, or on hillside? *Upland.*
Drilling or Boring Firm *Durham Drilling Enterprises Ltd.*
Address *Box 299, Durham Ont.*
Licence Number *1000*
Name of Driller or Borer *Percy Johnston & Fred Hochhaus.*
Date *April 2nd, 1963.*
Percy Johnston
(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.





GROUND WATER BRANCH
 17 No. 352
 JAN 14 1963
 ONTARIO WATER RESOURCES COMMISSION

UTM 5 17 25 E
5 17 25 N

The Ontario Water Resources Commission Act

WATER WELL RECORD

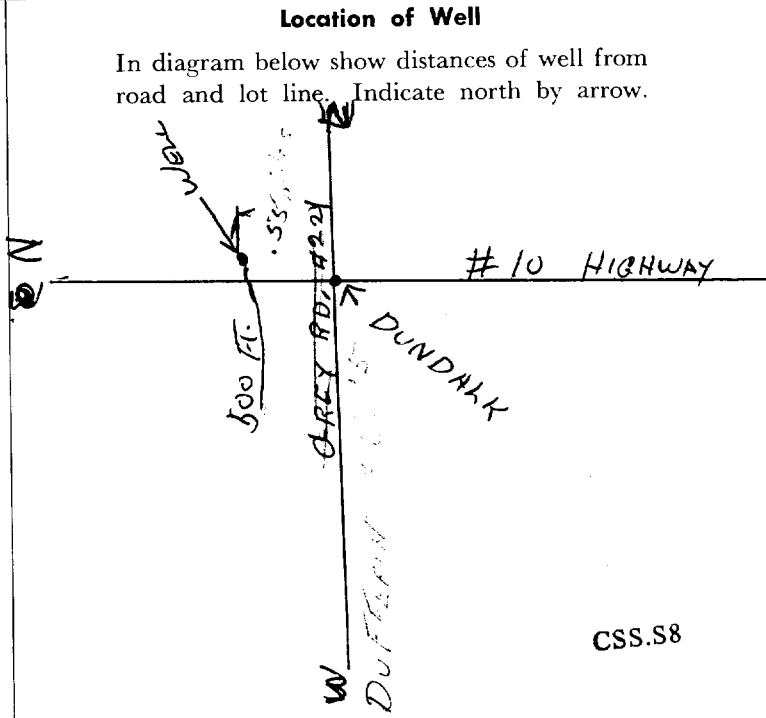
Basin 236 County or District DUFFERIN Township, Village, Town or City MELANCTHON
 Con. # 10 HIGHWAY Lot 226 Date completed 18th OCT 1962
 (day) (month) (year)
 Address DUNDALK ONTARIO

Casing and Screen Record
 Inside diameter of casing 4"
 Total length of casing 79'
 Type of screen -
 Length of screen -
 Depth to top of screen -
 Diameter of finished hole 4"

Pumping Test
 Static level 24'
 Test-pumping rate 12 G.P.M.
 Pumping level 70 FT.
 Duration of test pumping 3 HRS
 Water clear or cloudy at end of test CLEAR
 Recommended pumping rate 10 G.P.M.
 with pump setting of 80 feet below ground surface

Well Log		Water Record		
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
TOP SOIL	0'	4'	65	CLEAR
SANDY CLAY	4'	25'	4	FRESH
STONEY CLAY	25'	30'	85	
SANDY CLAY	50'	60'		
GREY ROCK				
STONEY CLAY	60'	65'		
CLAY	65'	79'		
HARD GREY ROCK	79'	91'		

For what purpose(s) is the water to be used? DOMESTIC
 Is well on upland, in valley, or on hillside? UPLAND
 Drilling or Boring Firm DURHAM DRILLERS
 Address DURHAM ONTARIO
Box 299.
 Licence Number 620
 Name of Driller or Borer E. HOTCHKISS
 Address DURHAM ONTARIO
 Date JAN 4th 1963
Percy Johnston
 (Signature of Licensed Drilling or Boring Contractor)





Ministry
of the
Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

1703380

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

11

MUNICIPALITY: [] COUNTY: []

COUNTY OR DISTRICT: **QUEBEC** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: **MELANCTON** CON. BLOCK, TRACT, SURVEY, ETC.: **1 NETSR** LOT: **PT 222**
 DATE COMPLETED: DAY **5** MO **5** YEAR **87**
BOX 67 DUNDALK NOCIBO

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BLACK	TOP SOIL			0	1
BROWN	HARDPAN & GRAVEL			1	58
BROWN	SANDY GRAVEL			58	80

31 [] 32 []

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
70	<input checked="" type="checkbox"/> FRESH <input type="checkbox"/> SULPHUR <input type="checkbox"/> SALTY <input type="checkbox"/> MINERAL
70	<input type="checkbox"/> FRESH <input type="checkbox"/> SULPHUR <input type="checkbox"/> SALTY <input type="checkbox"/> MINERAL
80	<input checked="" type="checkbox"/> FRESH <input type="checkbox"/> SULPHUR <input type="checkbox"/> SALTY <input type="checkbox"/> MINERAL
	<input type="checkbox"/> FRESH <input type="checkbox"/> SULPHUR <input type="checkbox"/> SALTY <input type="checkbox"/> MINERAL
	<input type="checkbox"/> FRESH <input type="checkbox"/> SULPHUR <input type="checkbox"/> SALTY <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
5"	STEEL	1/88	0	80
	GALVANIZED			
	CONCRETE			
	OPEN HOLE			

SCREEN

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

MATERIAL AND TYPE: [] DEPTH TO TOP OF SCREEN: []

61 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

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
<input checked="" type="checkbox"/> PUMP <input type="checkbox"/> BAILER	20 GPM	3 HOURS 30 MINS
STATIC LEVEL	WATER LEVELS DURING	
6' FEET	15 MINUTES: 8' FEET 30 MINUTES: 6' FEET 45 MINUTES: 6' FEET 60 MINUTES: 6' FEET	
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
	22 FEET	<input checked="" type="checkbox"/> CLEAR <input type="checkbox"/> CLOUDY
RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
<input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	60 FEET	12 GPM

LOCATION OF WELL

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

10
H
W
Y

0 - WELL

06023

FINAL STATUS OF WELL

WATER SUPPLY ABANDONED, INSUFFICIENT SUPPLY
 OBSERVATION WELL ABANDONED POOR QUALITY
 TEST HOLE UNFINISHED
 RECHARGE WELL

WATER USE

DOMESTIC COMMERCIAL
 STOCK MUNICIPAL
 IRRIGATION PUBLIC SUPPLY
 INDUSTRIAL COOLING OR AIR CONDITIONING
 OTHER NOT USED

OD

CABLE TOOL BORING
 ROTARY (CONVENTIONAL) DIAMOND
 ROTARY (REVERSE) JETTING
 ROTARY (AIR) DRIVING
 AIR PERCUSSION

TRACTOR: **LD** LICENCE NUMBER: **1804**
M DRILLING ENT
BRHAM NOCIBO
PANYI LICENCE NUMBER: **F-0206**
nton SUBMISSION DATE: DAY **6** MO **5** YEAR **87**

OFFICE USE ONLY

DATE RECEIVED: **260587**
 DATE OF INSPECTION: [] INSPECTOR: []
 REMARKS: []

41/11/54
 Tm 1 1 7 2 5 4 8 2 2 5 E
 9 R 4 8 9 0 7 8 0 N
 Elev. 9 R 1 7 0 7
 Basin 2 3



RECEIVED 25 No 882

FEB 10 1955

The Water-well Drillers Act, 1954
 DEPARTMENT OF MINES
 Department of Mines

Water-Well Record

County or Territorial District Guy ~~Township~~, Village, Town or City Sturdalk
 Con. --- Lot --- Street and Number (if in Village, Town or City) Sturdalk
 Owner --- Address ---
 Date completed 15 (day) 10 (month) 1954 (year)

Pipe and Casing Record

Pumping Test

Casing diameter(s) 4" O.D.
 Length(s) 100
 Type of screen No screen
 Length of screen ---
 Static level 25 ft
 Pumping rate 250 Gal. per Hour
 Pumping level 25 ft
 Duration of test 1 hr.

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)
<u>Clay & stones</u>	<u>ground level</u>	<u>100</u>	<u>150</u>	<u>125'</u>	<u>Fresh</u>
<u>limestone rock</u>	<u>100</u>	<u>150</u>			

For what purpose(s) is the water to be used?
domestic - house -
 Is water clear or cloudy? clear
 Is well on upland, in valley, or on hillside? upland

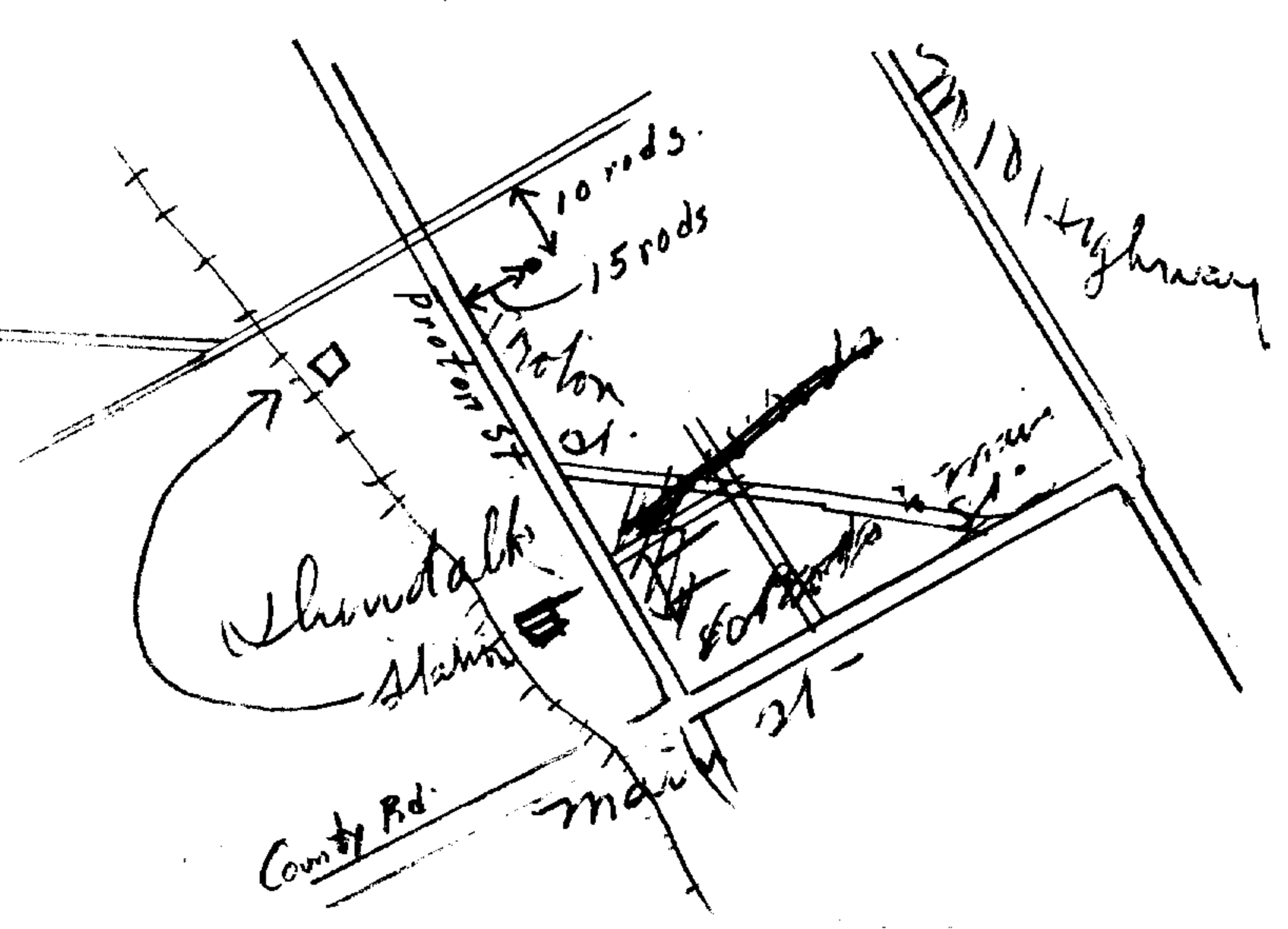
Drilling firm M. A. Bellamy
 Address ---
 Name of Driller M. A. Bellamy
 Address 17 Inglewood Rd
Lot 10 - 10
 Licence Number 48

I certify that the foregoing statements of fact are true.

Date Oct-15 M. A. Bellamy
 Signature of Licensee

Location of Well

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



41 A/1 ~~est~~

UTM | 17^Z | 547990^E
| 9^R | 4890525^N
Elev. | 9^R | 1700
Basin | 23 |



The Water-well Drillers Act, 1954
Department of Mines

25 No
GROUND WATER BRANCH
APR 17 1957
ONTARIO WATER
RESOURCES COMMISSION

888
X

LR

Water-Well Record

(COPY)

Location, Village, Town or City Dundalk
Village, Town or City
Address

Date completed 7 May 1956
(day) (month) (year)

Pipe and Casing Record

Pumping Test

Casing diameter(s) 3 1/8
Length(s) 102
Type of screen
Length of screen

Static level 13
Pumping rate 15 G.P.M.
Pumping level 13
Duration of test

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, boulders	0	102			
Limestone	102	158	150	137	Fresh

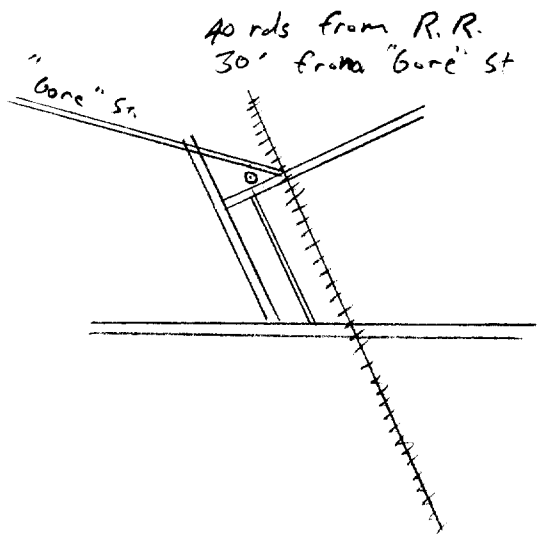
For what purpose(s) is the water to be used? Domestic
Is water clear or cloudy? clear
Is well on upland, in valley, or on hillside? upland
Drilling firm M.S. Bellerby
Address
Name of Driller
Address
Licence Number 98

I certify that the foregoing statements of fact are true.

Date: Apr 17/57 M. S. Bellerby
Signature of Licensee

Location of Well

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



LR

UTM 17^Z 548140^E

9^R 4890700^N

Elev. 9^R 1704

Basin 23



25 No 897

GROUND WATER BRANCH
JUN 16 1960
ONTARIO WATER RESOURCES COMMISSION

The Ontario Water Resources Commission Act, 1957

WATER WELL RECORD

County or District Grey Township, Village Town or City Village of Dundalk
Con. Block P Lot T Date completed 5 May 1960
(day month year)
Owner Village of Dundalk Address Dundalk, Ont.
(print in block letters)

Casing and Screen Record

Village well # 2

Pumping Test

Inside diameter of casing 10"
Total length of casing 99'-10"
Type of screen ---
Length of screen ---
Depth to top of screen ---
Diameter of finished hole 10"

Static level 23
Test-pumping rate 45 G.P.M.
Pumping level 153'
Duration of test pumping 20 hrs.
Water clear or cloudy at end of test clear
Recommended pumping rate 45 G.P.M.
with pumping level of 175'

Well Log

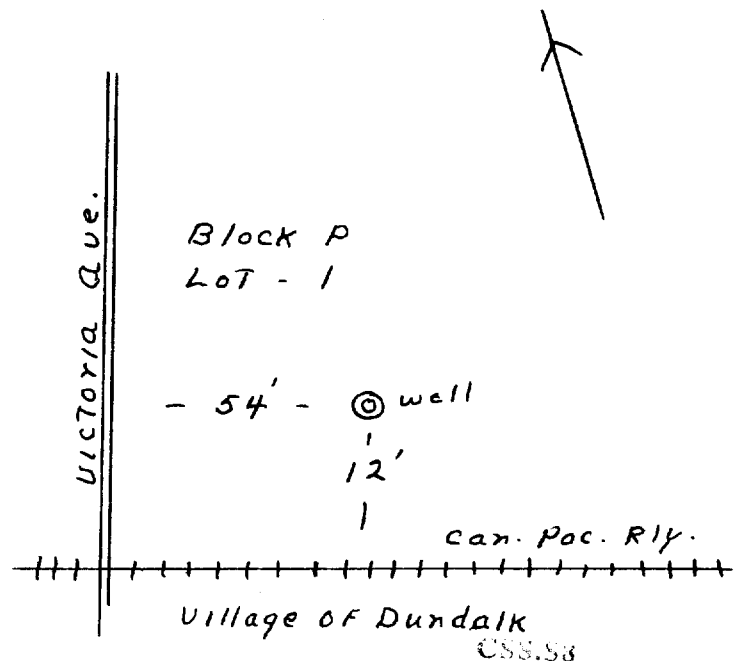
Water Record

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, sulphur)
<u>Fill</u>	<u>0</u>	<u>2</u>			
<u>Sand & gravel</u>	<u>2</u>	<u>12</u>			
<u>Hard pan, stoney</u>	<u>12</u>	<u>54</u>			
<u>Sand & clay</u>	<u>54</u>	<u>62</u>			
<u>Sand & gravel</u>	<u>62</u>	<u>98</u>			
<u>Limestone, light brown, hard</u>	<u>98</u>	<u>102</u>			
<u>" , BUFF, hard</u>	<u>102</u>	<u>152</u>	<u>104'</u>	<u>81'</u>	<u>Fresh</u>
<u>" , brown, hard</u>	<u>152</u>	<u>195</u>	<u>195</u>	<u>172'</u>	<u>Fresh</u>
<u>" , white, hard</u>	<u>195</u>	<u>208</u>			
<u>" , Light brown, hard</u>	<u>208</u>	<u>218</u>			
<u>" , BUFF, hard</u>	<u>218</u>	<u>228</u>	<u>228</u>	<u>205'</u>	<u>Fresh</u>
<u>" , Brown, hard</u>	<u>228</u>	<u>248</u>	<u>248</u>	<u>225'</u>	<u>Fresh</u>
<u>" , dark Brown, med hard</u>	<u>248</u>	<u>273</u>			

For what purpose(s) is the water to be used?
Municipal Supply
Is well on upland, in valley, or on hillside?
upland
Drilling Firm G. L. Davidson
Address Wingham
Licence Number 593
Name of Driller E. Thompson
Address Wingham
Date May 30
G. L. Davidson
(Signature of Licensed Drilling Contractor)

Location of Well

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



GD

41A/1



WATER RESOURCES DIVISION No. 25 AUG 26 1965 ONTARIO WATER RESOURCES COMMISSION

21

UTM 17Z 547975E

9R 4890850N The Ontario Water Resources Commission Act

Elev. 9R 11704

WATER WELL RECORD

Basin 23 County or District Grey

Township, Village, Town or City ~~Proton~~ DUNDALK

Con. Lot

Date completed 9 June 1965 (day month year)

Address Dundalk

Casing and Screen Record

Inside diameter of casing 4"
Total length of casing 117'
Type of screen
Length of screen
Depth to top of screen
Diameter of finished hole 4"

Pumping Test

Static level 40'
Test-pumping rate 5 G.P.M.
Pumping level 50
Duration of test pumping 5-hrs
Water clear or cloudy at end of test Clear
Recommended pumping rate 4 G.P.M.
with pump setting of 80' feet below ground surface

Well Log

Water Record

Overburden and Bedrock Record

Table with 4 columns: From ft., To ft., Depth(s) at which water(s) found, Kind of water (fresh, salty, sulphur). Rows include Hard Pan & Boulders, Gravel, and Fresh water at 115-117 ft.

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

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

Drilling or Boring Firm Durhagan Drilling Enterprises Ltd

Address Box 299, Durham

Licence Number 1767

Name of Driller or Borer David Watson

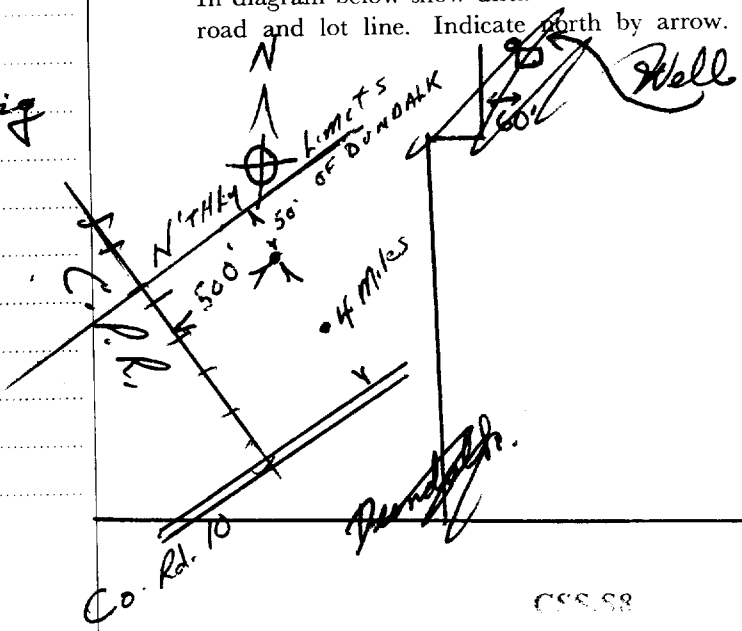
Address priceville

Date June 10, 1965

(Signature of Licensed Drilling or Boring Contractor) Percy Johnston

Location of Well

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



Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue (<https://data.ontario.ca/dataset/well-records>).

[Go Back to Map](#)

Well ID

Well ID Number: 2502801

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	DUNDALK VILLAGE
Lot	
Concession	
County/District/Municipality	GREY
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 548014.30 Northing: 4891073.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
	LOAM			0 ft	3 ft
	CLAY	MSND		3 ft	20 ft
	GRVL	BLDR		20 ft	30 ft
	CLAY	GRVL		30 ft	40 ft
	GRVL	BLDR		40 ft	50 ft
	CLAY	GRVL		50 ft	127 ft
	ROCK			127 ft	144 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
	Livestock

Status of Well

Water Supply

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
4 inch	STEEL		127 ft
4 inch	OPEN HOLE		144 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 1804

Results of Well Yield Testing

After test of well yield, water was	CLOUDY
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	15 GPM

Duration of Pumping	2 h:0 m
Final water level	60 ft
If flowing give rate	
Recommended pump depth	85 ft
Recommended pump rate	12 GPM
Well Production	PUMP
Disinfected?	

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL	35 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
135 ft	Fresh

Hole Diameter

Depth From	Depth To	Diameter

Audit Number:**Date Well Completed:** March 07, 1969**Date Well Record Received by MOE:** April 08, 1969**Related**

How to use a Ministry of the Environment map (<https://www.ontario.ca/page/how-use-ministry-environment-map#wells>)

Technical documentation: Metadata record (<https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77>)

Updated: October 18, 2021

Published: March 20, 2014

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[terms of use \(https://www.ontario.ca/page/terms-use\)](https://www.ontario.ca/page/terms-use)

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The Ontario Water Resources Commission Act WATER WELL RECORD

41A1W
C

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED

2. CHECK CORRECT BOX WHERE APPLICABLE

11 2503215

MUNICIP. 25012

CON. SR W C 01

COUNTY OR DISTRICT **Q REY** TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE **PROTON** CON., BLOCK, TRACT, SURVEY, ETC. **1 SW 1/4** LOT **220**

UNDALK DATE COMPLETED **01** MO. **July** YR. **70**

92.900 RC. **4** ELEVATION **172.5** RC. **5** BASIN CODE **23**

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BLACK	Topsoil	Boulders	Loose	0	2
GREY	Clay	"	Packed	2	30
"	"	Stones	"	30	60
"	Sand	Clay	"	60	100
Brown	Clay	Boulders	"	100	120
"	Rock			120	130

31 000280213 003020513 006020512 010020905 012000513 013000200

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0125	1 <input checked="" type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
0130	1 <input checked="" type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 2 <input type="checkbox"/> SALTY 3 <input type="checkbox"/> SULPHUR 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
4	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE	4	0	120
4	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		120	130
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE			0130
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> 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

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 0015 GPM

DURATION OF PUMPING: 02 HOURS 20 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING PUMPING			
19-21 FEET	22-24 FEET	15 MINUTES 26-28 FEET	30 MINUTES 29-31 FEET	45 MINUTES 32-34 FEET	60 MINUTES 35-37 FEET
017	017	017	017	017	017

IF FLOWING, GIVE RATE: X

PUMP INTAKE SET AT: 60 FEET

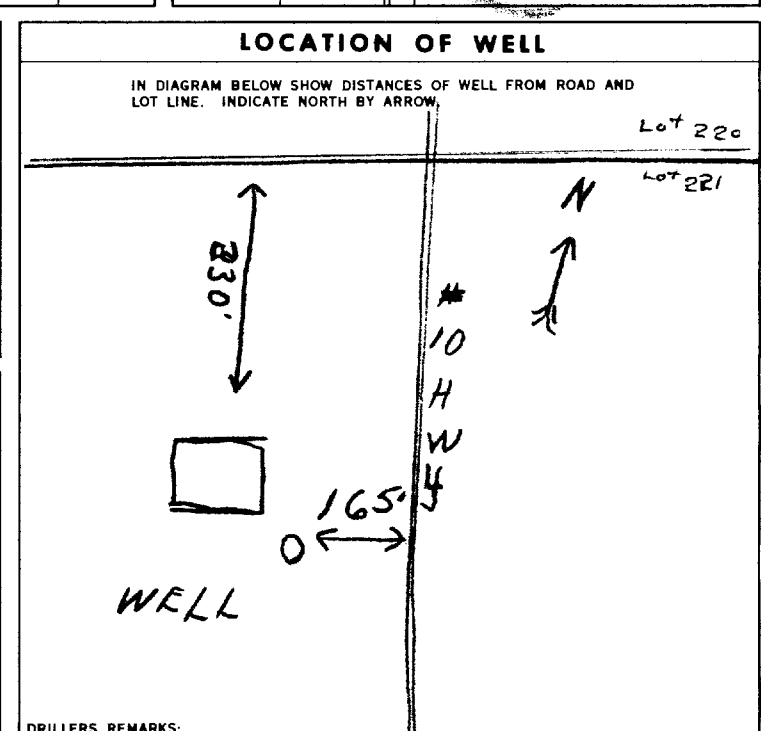
WATER AT END OF TEST: 1 CLEAR 2 CLOUDY

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 060 FEET

RECOMMENDED PUMPING RATE: 0015 GPM.

50-53: 030.0 GPM./FT. SPECIFIC CAPACITY



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

CONTRACTOR

NAME OF WELL CONTRACTOR: **DURHAM DRILLING & ENTER** LICENCE NUMBER: **1804**

ADDRESS: **DURHAM ONT BOX 249**

NAME OF DRILLER OR BORER: **ED HOTCHKISS** LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: *[Signature]* SUBMISSION DATE: DAY **1** MO. **July** YR. **70**

OFFICE USE ONLY

DATA SOURCE: **1** CONTRACTOR: **1804** DATE RECEIVED: **060770**

DATE OF INSPECTION: **2/6/71** INSPECTOR: **PK**

REMARKS:



The Ontario Water Resources Commission Act

WATER WELL RECORD

41A 100

Water management in Ontario 1. PRINT ONLY IN SPACES PROVIDED
2. CHECK CORRECT BOX WHERE APPLICABLE

MUNICIP. 25702 CON. _____

COUNTY OR DISTRICT GREY TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE 3 PROTON DUNDALK 9 CON., BLOCK, TRACT, SURVEY, ETC. LOT 25-27

DATE COMPLETED 06-53
DAY 26 MO JUNE YR 70

RC. ELEVATION RC. BASIN CODE
81200 4 1720 5 23

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
BLACK TOPSOIL				0	2
BROWN HARD PAN & STONES.				2	103
BROWN HARD ROCK				103	123

31 0002802 010321412 0123626

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0115	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input checked="" type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
70	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
123	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
04	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	1/4"	0	103
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		103	123

61 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

71 PUMPING TEST

PUMPING TEST METHOD 1 PUMP 2 BAILER

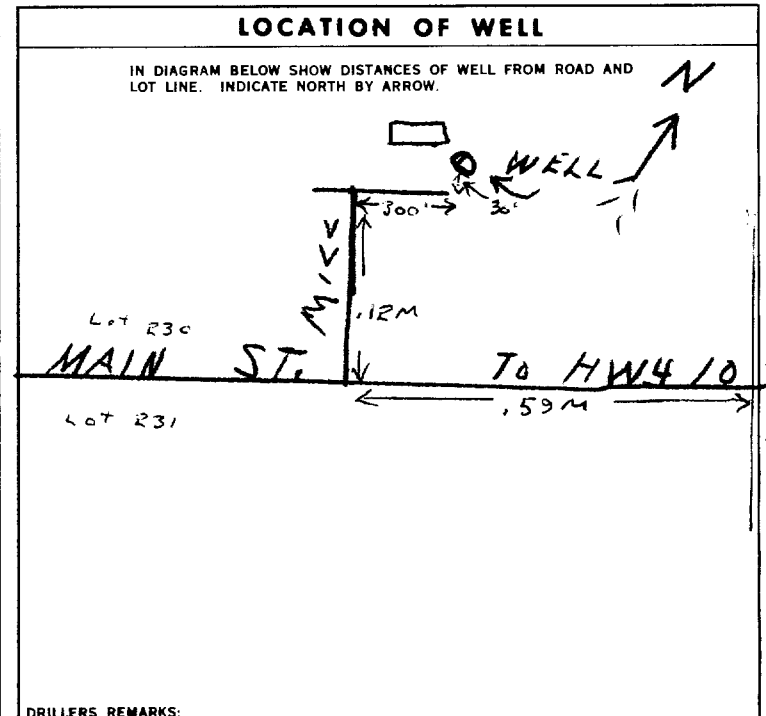
PUMPING RATE 00/0 GPM. DURATION OF PUMPING 02 HOURS 20 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	RECOVERY
042'	045'	15 MINUTES 045'	30 MINUTES 045'
		45 MINUTES 045'	60 MINUTES 045'

RECOMMENDED PUMP TYPE SHALLOW DEEP

RECOMMENDED PUMP SETTING 080' FEET

RECOMMENDED PUMPING RATE 0008 GPM.



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 LTD
DURHAM DRILLING, ENT. 1804
ADDRESS Box 299 DURHAM.
NAME OF DRILLER OR BORER David Watson
SIGNATURE OF CONTRACTOR P.C. Johnston
SUBMISSION DATE DAY 26 MO JUNE YR 70

OFFICE USE ONLY

DATA SOURCE 1 CONTRACTOR 1804 DATE RECEIVED 060770
DATE OF INSPECTION 21/6/71 INSPECTOR P/C
REMARKS: CS9.59



Ontario

WATER WELL RECORD

41 A/1W

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

11 | 2505795 | 25012 | SR W | 101

COUNTY OR DISTRICT: Grey | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Proton | CON., BLOCK, TRACT, SURVEY, ETC.: 1 S. Rd. W | LOT: 25-27
11 St. Dundalk. | DATE COMPLETED: 17 08 76

291360 | 5 | 1715 | 5 | 23

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Black	Topsoil			0	1
Brown	Hardpan	Boulders, Sand, Gravel		1	67
Grey	Hardpan			67	74
Brown	Hardpan	Boulders		74	104
Grey	Limestone			104	112
Blue	Limestone			112	119
Grey	Limestone	Shale	Hard	119	132

31 | 0001802 | 00676141308 | 00742114 | 010461413 | 0112215 | 0119315 | 1

32 | 01322151773

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0128	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
04"	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	205	0 0106
04"	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		1060132
	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE
10-13	14-17
18-21	22-25
26-29	30-33

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 0008 GPM

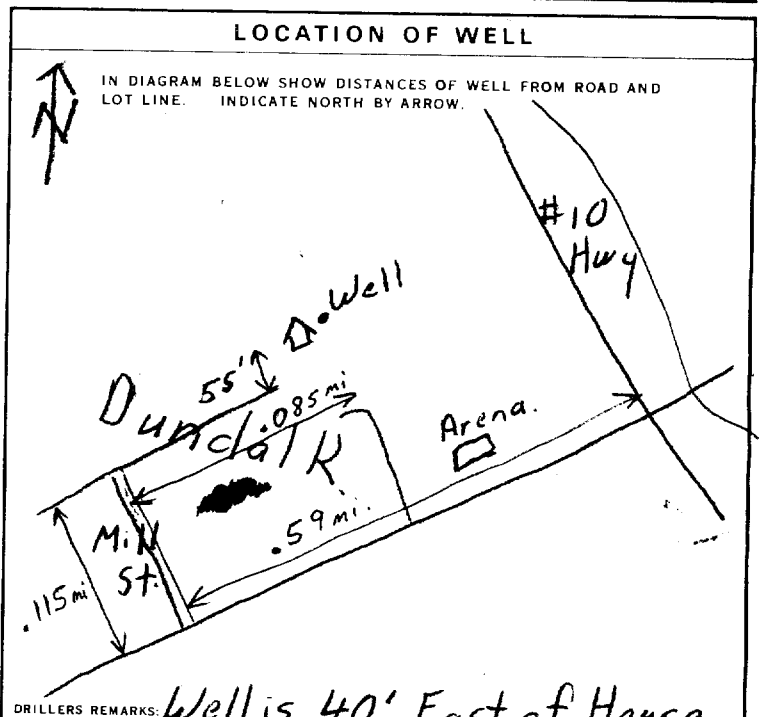
DURATION OF PUMPING: 01 HOURS 45 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
060	090	15 MINUTES: 090, 30 MINUTES: 090, 45 MINUTES: 090, 60 MINUTES: 090

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 090 FEET

RECOMMENDED PUMP RATE: 0005 GPM



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: Ray Spencer + Son Well Dr. Inc. LICENCE NUMBER: 4856
ADDRESS: RR#5 Mount Forest.
NAME OF DRILLER OR BORER: Mike Kelly LICENCE NUMBER:
SIGNATURE OF CONTRACTOR: [Signature] SUBMISSION DATE: DAY ____ MO. ____ YR. ____

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 4856 DATE RECEIVED: 220976
DATE OF INSPECTION: June 16/77 INSPECTOR: [Signature]
REMARKS: P.B.S. WI



8.P.M.

WATER WELL RECORD

41A/SW

1. PRINT ONLY IN SPACES PROVIDED

2. CHECK CORRECT BOX WHERE APPLICABLE

(11)

2506029

MUNICIPALITY 25012

CON. SR W

01

COUNTY OR DISTRICT

Grey

TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE

Proton

CON. BLOCK, TRACT, SURVEY, ETC. 1st Range S. Rd. W. LOT 25-27

1 Melrose St. Dundalk.

DATE COMPLETED DAY 15 MO 04 YR 77

RC. ELEVATION 891.150

RC. ELEVATION 1705

BASIN CODE 5 33

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
Black	Topsoil			0	1
Brown	Sandy Clay	Gravel		1	27
Brown	Hardpan	Gravel, Boulders.		27	100
Grey	Limestone	Brown Shale.		100	109

(31) 0001802 (32) 00276051181 01006141113 010921517

(41) WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

(51) CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
10-11	1 <input checked="" type="checkbox"/> STEEL		FROM TO
10-11	2 <input type="checkbox"/> GALVANIZED	205	0 0102
10-11	3 <input type="checkbox"/> CONCRETE		
10-11	4 <input type="checkbox"/> OPEN HOLE		
17-18	1 <input type="checkbox"/> STEEL		20-23
17-18	2 <input type="checkbox"/> GALVANIZED		102 0109
17-18	3 <input type="checkbox"/> CONCRETE		
17-18	4 <input checked="" type="checkbox"/> OPEN HOLE		
24-25	1 <input type="checkbox"/> STEEL		27-30
24-25	2 <input type="checkbox"/> GALVANIZED		
24-25	3 <input type="checkbox"/> CONCRETE		
24-25	4 <input type="checkbox"/> OPEN HOLE		

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
	34-38	39-40

MATERIAL AND TYPE: _____ DEPTH TO TOP OF SCREEN: 41-44 FEET

(61) 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 80

(17) PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 0018 GPM

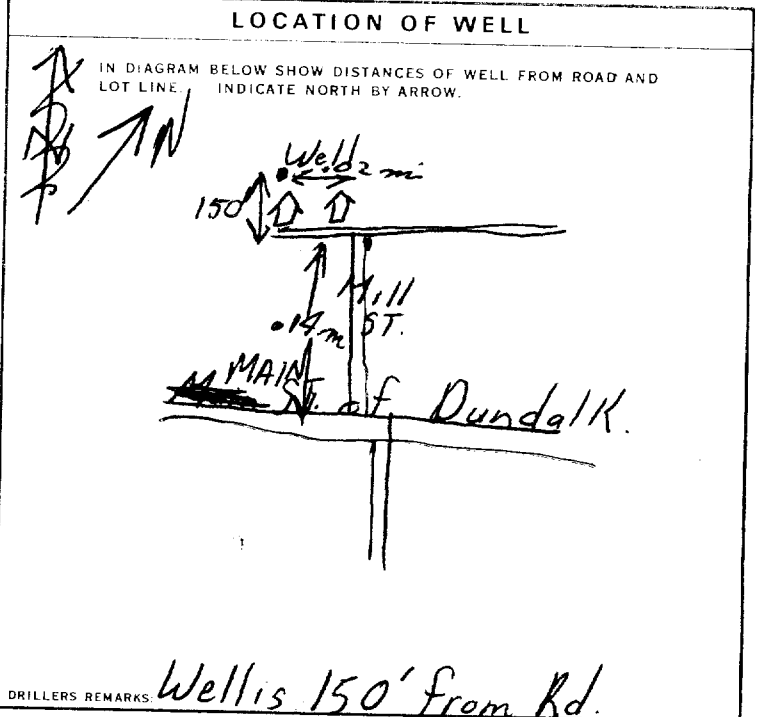
DURATION OF PUMPING: 01 HOURS 30 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING
038	060	15 MINUTES: 060
		30 MINUTES: 060
		45 MINUTES: 060
		60 MINUTES: 060

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 060 FEET

RECOMMENDED PUMPING RATE: 0007 GPM



FINAL STATUS OF WELL 1

WATER USE 01

METHOD OF DRILLING 2

CONTRACTOR

NAME OF WELL CONTRACTOR: Ray Spencer & Son Well Dr. Inc. LICENCE NUMBER: 4856

ADDRESS: RR #5 Mount Forest.

NAME OF DRILLER OR BOREHOLE: Mike Kelly LICENCE NUMBER: _____

SIGNATURE OF CONTRACTOR: _____ SUBMISSION DATE: _____

OFFICE USE ONLY

DATA SOURCE: 1 CONTRACTOR: 4856 DATE RECEIVED: 020577

DATE OF INSPECTION: 12/6/76 INSPECTOR: _____

REMARKS: _____



41A/W

WATER WELL RECORD

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

11 2506475 25012 SR W 02

COUNTY OR DISTRICT PREV	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE DROTON	CON., BLOCK, TRACT, SURVEY, ETC. II 2 S-Rd W.	LOT 224
DATE COMPLETED RR2 Dundalk.			48-53 DAY 29 MO 04 YR 78
ELEVATION 90.800 5		BASIN CODE 1700 5 22	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
	Top soil			0	2
	SANDY CLAY			2	48
	GRAVEL			48	74
BROWN	LIME STONE			74	93

31	0002 02	0048 0581	0074 11	0093615
32				

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
10-13	1 <input checked="" type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
15-18	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
20-23	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
25-28	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL
30-33	1 <input type="checkbox"/> FRESH 3 <input type="checkbox"/> SULPHUR 2 <input type="checkbox"/> SALTY 4 <input type="checkbox"/> MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET
10-11	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE	188	FROM TO
17-18	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input checked="" type="checkbox"/> OPEN HOLE		20-23
24-25	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE		27-30

SCREEN

SIZE(S) OF OPENING (SLOT NO.)	DIAMETER INCHES	LENGTH FEET
	31-33	34-38
MATERIAL AND TYPE		DEPTH TO TOP OF SCREEN 41-44
		FEET 50

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

1 <input checked="" type="checkbox"/> PUMP 2 <input type="checkbox"/> BAILER	PUMPING RATE 0020 GPM	DURATION OF PUMPING 15-16 HOURS 00 17-18 MINS
STATIC LEVEL 19-21 012 FEET	WATER LEVEL END OF PUMPING 22-24 025 FEET	WATER LEVELS DURING
IF FLOWING, GIVE RATE	PUMP INTAKE SET AT 38-41	WATER AT END OF TEST 42
RECOMMENDED PUMP TYPE <input type="checkbox"/> SHALLOW <input checked="" type="checkbox"/> DEEP	RECOMMENDED PUMP SETTING 43-45 060 FEET	RECOMMENDED PUMPING RATE 46-49 0020 GPM

LOCATION OF WELL

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

DRILLERS REMARKS: **Dundalk**

FINAL STATUS OF WELL

1 <input checked="" type="checkbox"/> WATER SUPPLY	5 <input type="checkbox"/> ABANDONED, INSUFFICIENT SUPPLY
2 <input type="checkbox"/> OBSERVATION WELL	6 <input type="checkbox"/> ABANDONED, POOR QUALITY
3 <input type="checkbox"/> TEST HOLE	7 <input type="checkbox"/> UNFINISHED
4 <input type="checkbox"/> RECHARGE WELL	

WATER USE

1 <input checked="" type="checkbox"/> DOMESTIC	5 <input type="checkbox"/> COMMERCIAL
2 <input type="checkbox"/> STOCK	6 <input type="checkbox"/> MUNICIPAL
3 <input type="checkbox"/> IRRIGATION	7 <input type="checkbox"/> PUBLIC SUPPLY
4 <input type="checkbox"/> INDUSTRIAL	8 <input type="checkbox"/> COOLING OR AIR CONDITIONING
<input type="checkbox"/> OTHER	9 <input type="checkbox"/> NOT USED

METHOD OF DRILLING

1 <input checked="" type="checkbox"/> CABLE TOOL	6 <input type="checkbox"/> BORING
2 <input type="checkbox"/> ROTARY (CONVENTIONAL)	7 <input type="checkbox"/> DIAMOND
3 <input type="checkbox"/> ROTARY (REVERSE)	8 <input type="checkbox"/> JETTING
4 <input type="checkbox"/> ROTARY (AIR)	9 <input type="checkbox"/> DRIVING
5 <input type="checkbox"/> AIR PERCUSSION	

CONTRACTOR

NAME OF WELL CONTRACTOR IMBRO BREBRIC	LICENCE NUMBER 1458
ADDRESS Box 382, Dundalk, Ont.	
NAME OF DRILLER OR BORER	LICENCE NUMBER
SIGNATURE OF CONTRACTOR <i>Paula Brebric</i>	SUBMISSION DATE DAY 29 MO 4 YR 78

OFFICE USE ONLY

DATA SOURCE 1	CONTRACTOR 1458	DATE RECEIVED 120778
DATE OF INSPECTION 21, 5, 79	INSPECTOR 3	
REMARKS		

41A/1W

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

11

2509109

MUNICIPALITY 250.12

CORPORATION CON

01

COUNTY OR DISTRICT: Grey
TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: Peaton
CON. BLOCK TRACT SURVEY ETC: I. S. 229
DATE COMPLETED: DAY 15 MO 9 YR 87
ELEVATION: 1700
BASIN CODE: 891125

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
	Top soil			0	1
	Clay stones & some gravel			1	53
	Hard pan & stones			53	106
	Limestone			106	183

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER					
10-13	1 <input checked="" type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>	7 <input type="checkbox"/>
15-18	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>	7 <input type="checkbox"/>
20-23	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>	7 <input type="checkbox"/>
25-28	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>	7 <input type="checkbox"/>
30-33	1 <input type="checkbox"/> FRESH	3 <input type="checkbox"/> SULPHUR	4 <input type="checkbox"/> MINERALS	5 <input type="checkbox"/> GAS	6 <input type="checkbox"/>	7 <input type="checkbox"/>

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
10-11	1 <input checked="" type="checkbox"/> STEEL		0	107
17-18	2 <input type="checkbox"/> GALVANIZED		107	183
24-25	1 <input type="checkbox"/> STEEL		27	30

SCREEN

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 PUMP 2 BAILER

PUMPING RATE: 6 GPM

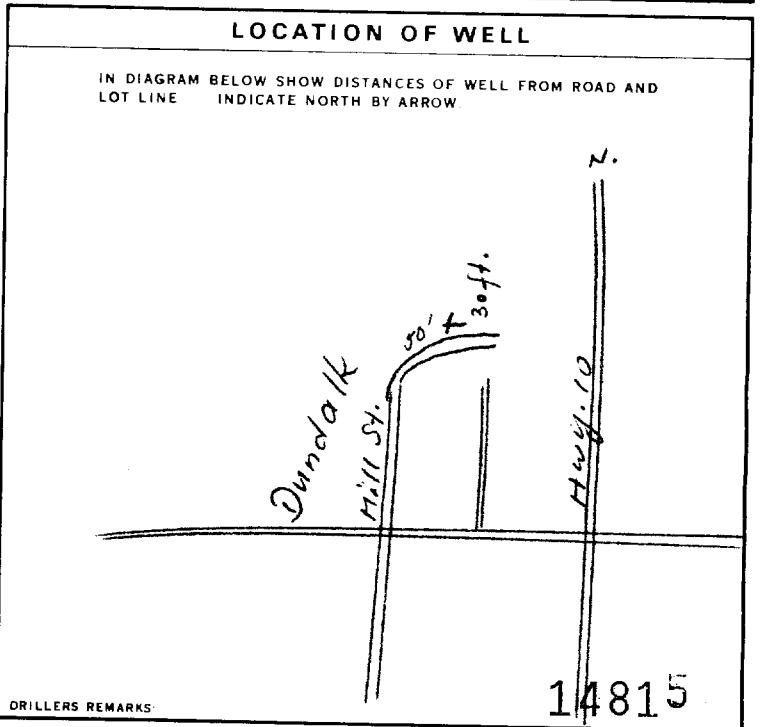
DURATION OF PUMPING: 0 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING					
19-21	22-24	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES	75 MINUTES	90 MINUTES
54 FEET	128 FEET	93 FEET	128 FEET	128 FEET	128 FEET	128 FEET	128 FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 150 FEET

RECOMMENDED PUMPING RATE: 6 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 OTHER

6 COMMERCIAL
7 MUNICIPAL
8 PUBLIC SUPPLY
9 COOLING OR AIR CONDITIONING
10 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
10 DIGGING
11 OTHER

3813

CONTRACTOR

NAME OF WELL CONTRACTOR: S. Neumann
ADDRESS: 2. R. 4 Dundalk Ont.
WELL CONTRACTOR'S LICENCE NUMBER: 3813

NAME OF WELL TECHNICIAN: S. Neumann
WELL TECHNICIAN'S LICENCE NUMBER: T-0214

SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]
SUBMISSION DATE: DAY _____ MO _____ YR _____

OFFICE USE ONLY

DATA SOURCE: 58 CONTRACTOR: 59-62 DATE RECEIVED: OCT 06 1987

DATE OF INSPECTION: 11/9/88
INSPECTOR: [Signature]

REMARKS: [Signature]



2512639

MUNICIPALITY 25012

CONTRACTOR SR W 101

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

11

COUNTY OR DISTRICT [REDACTED] TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE Proton CON. BLOCK, TRACT, SURVEY ETC. COW 1 TSW LOT 25-27 229

DATE COMPLETED 48-53 DAY 30 MO 8 YR 94

WELL NO. 1 Proton Station WOC 140

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH - FEET	
				FROM	TO
	Topsail			0	1
Brown	silty	sand gravel		1	8
Gray	Silt	gravel stones		8	102
Gray	Limestone		Hard	102	138

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER					
10-13 109	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	
15-18 133	<input checked="" type="checkbox"/> FRESH	<input type="checkbox"/> SALTY	<input type="checkbox"/> SULPHUR	<input type="checkbox"/> MINERALS	<input type="checkbox"/> GAS	

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET	
			FROM	TO
6	1 <input checked="" type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC	1/8"	+1	104
6	1 <input type="checkbox"/> STEEL 2 <input type="checkbox"/> GALVANIZED 3 <input type="checkbox"/> CONCRETE 4 <input type="checkbox"/> OPEN HOLE 5 <input type="checkbox"/> PLASTIC		104	138

SCREEN

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

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET	MATERIAL AND TYPE	(CEMENT GROUT LEAD PACKER, ETC.)
0	30	Benseal

71 PUMPING TEST

PUMPING TEST METHOD: AIR LIFT

PUMPING RATE: 7 GPM DURATION OF PUMPING: 1 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING			
56 FEET		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
		26-28 FEET	29-31 FEET	32-34 FEET	35-37 FEET

RECOMMENDED PUMP TYPE: SHALLOW DEEP

RECOMMENDED PUMP SETTING: 100 FEET

RECOMMENDED PUMPING RATE: 6-7 GPM

LOCATION OF WELL

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

Village of Dundalk

131050

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

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
10 DIGGING
11 OTHER

CONTRACTOR

NAME OF WELL CONTRACTOR: Highland Water Wells
WELL CONTRACTOR'S LICENCE NUMBER: 2576

ADDRESS: Box 141, Durham

NAME OF WELL TECHNICIAN: Nigel Poppelton
WELL TECHNICIAN'S LICENCE NUMBER: 72130

SIGNATURE OF TECHNICIAN/CONTRACTOR: [Signature]
SUBMISSION DATE: DAY 6 NO. 9 YR 94

OFFICE USE ONLY

DATA SOURCE: 2576
DATE RECEIVED: SEP 12 1994

DATE OF INSPECTION: [Blank]
INSPECTOR: [Blank]

REMARKS: [Blank]

CSS.ES

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

2515004

Municipality
25702

Con. 10 14 15 22 23 24

11

County or District GREY	Township/Borough/City/Town/Village TOWN OF DUNDALK/ROTON TOP CONC	Con block tract survey, etc. 1 SWTSR	Lot PAR 230
Owner's surname TOWNSHIP OF SOUTHGATE	First Name	Address RR 1, DUNDALK, ON, NOC 1B0	
Date completed 25 03 02		day month year	

21

Zone Easting Northing RC Elevation RC Basin Code 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	CLAY	ROCKS	FILL	0	6
BROWN	CLAY	SAND + STONES		6	35
BROWN	GRAVEL	CLAY		35	97
GREY BROWN	LIMESTONE		INTERMIXED	97	154
TAN	LIMESTONE			154	180
BROWN	LIMESTONE			180	211
TAN	LIMESTONE			211	330

31

32

WATER RECORD			
Water found at - feet	Kind of water		
125-13	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur	14
155	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals	15
215-18	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur	19
260	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals	20
300-23	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur	24
310	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals	25
25-28	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur	29
	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals	30
30-33	1 <input type="checkbox"/> Fresh	3 <input type="checkbox"/> Sulphur	34
	2 <input type="checkbox"/> Salty	4 <input type="checkbox"/> Minerals	35

CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
10-11	1 <input checked="" type="checkbox"/> Steel	12		13-16
6 1/4	2 <input type="checkbox"/> Galvanized	.188	+ 2	105
17-18	1 <input type="checkbox"/> Steel	19		20-23
	2 <input type="checkbox"/> Galvanized			
	3 <input type="checkbox"/> Concrete			
	4 <input type="checkbox"/> Open hole			
	5 <input type="checkbox"/> Plastic			
24-25	1 <input type="checkbox"/> Steel	26		27-30
	2 <input type="checkbox"/> Galvanized			
	3 <input type="checkbox"/> Concrete			
	4 <input type="checkbox"/> Open hole			
	5 <input type="checkbox"/> Plastic			

Screen	Size of opening (Slot No.)		Diameter inches	Length feet
	31-33	34-38		
	Material and type		Depth at top of screen feet	

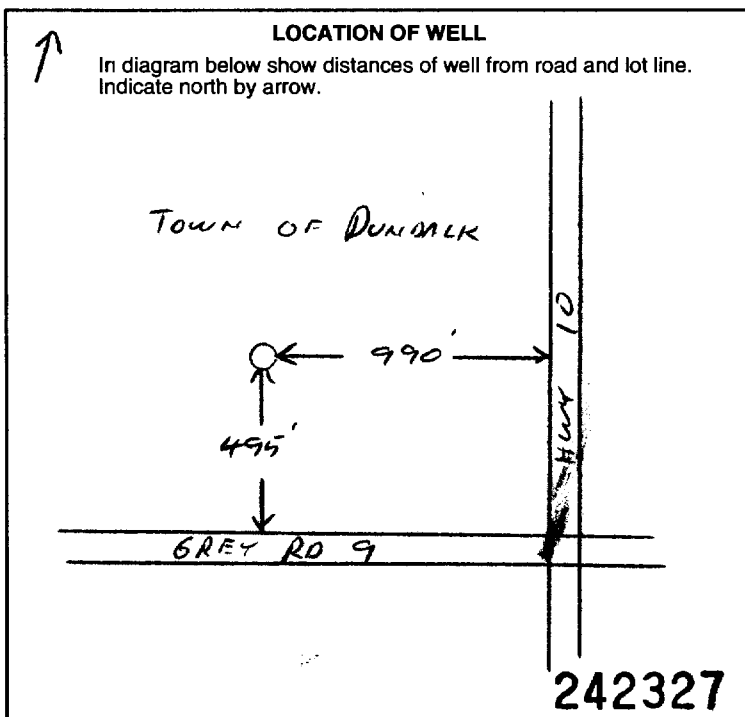
PLUGGING & SEALING RECORD			
Annular space		Abandonment	
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
0-13	105	BENTONITE	
18-21	22-25		
26-29	30-33	80	

PUMPING TEST		Pumping test method		Pumping rate		Duration of pumping	
		1 <input type="checkbox"/> Pump	2 <input type="checkbox"/> Bailer	GPM		Hours Mins	
Static level	Water level end of pumping	Water levels during		1 <input type="checkbox"/> Pumping		2 <input type="checkbox"/> Recovery	
19-21	22-24	15 minutes	30 minutes	45 minutes	60 minutes		
feet	feet	feet	feet	feet	feet	feet	
If flowing give rate		Pump intake set at		Water at end of test			
GPM		feet		<input type="checkbox"/> Clear <input type="checkbox"/> Cloudy			
Recommended pump type		Recommended pump setting		Recommended pump rate			
<input type="checkbox"/> Shallow <input type="checkbox"/> Deep		feet		GPM			

FINAL STATUS OF WELL		
1 <input checked="" type="checkbox"/> Water supply	5 <input type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished
2 <input type="checkbox"/> Observation well	6 <input type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacement well
3 <input checked="" type="checkbox"/> Test hole	7 <input type="checkbox"/> Abandoned (Other)	
4 <input type="checkbox"/> Recharge well	8 <input type="checkbox"/> Dewatering	

WATER USE		
1 <input type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not use
2 <input type="checkbox"/> Stock	6 <input checked="" type="checkbox"/> Municipal	10 <input type="checkbox"/> Other
3 <input type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply	
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning	

METHOD OF CONSTRUCTION		
1 <input type="checkbox"/> Cable tool	5 <input type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving
2 <input checked="" type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other
4 <input type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting	



Name of Well Contractor MEADOWBANK DRILLING SERVICES	Well Contractor's Licence No. 6865
Address RR 1 ECOLA CRT NOB 150	
Name of Well Technician Jim Broadfoot	Well Technician's Licence No. 70370
Signature of Technician/Contractor <i>Jim Broadfoot</i>	Submission date day mo yr

MINISTRY USE ONLY	Data source 6865	Contractor 6865	Date received JUN 10 2002
	Date of inspection	Inspector	
	Remarks CSS.ES2		

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

11

2515005

Municipality 25702

Con. 10 14 15 22 23 24

County or District GREY	Township/Borough/City/Town/Village TOWN OF DUNDALK	Con block tract survey, etc. ONE 1 SW TSR	Lot 230
Owner's surname TOWNSHIP OF SOUTHGATE	First Name	Address RR 1, DUNDALK, ON, N0C 1B0	Date completed 22 04 02 day month year

21

Zone Easting Northing RC Elevation RC Basin Code 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	CLAY	ROCKS	FILL	0	7
Brown	CLAY	SAND & STONES		7	35
Brown	GRAVEL	CLAY ROCK'S	ROCK'S	35	95
GREY BROWN	LIMESTONE		INTERMIXED	95	154
TAN	LIMESTONE			154	180
Brown	LIMESTONE			180	211
TAN	LIMESTONE			211	330

31

32

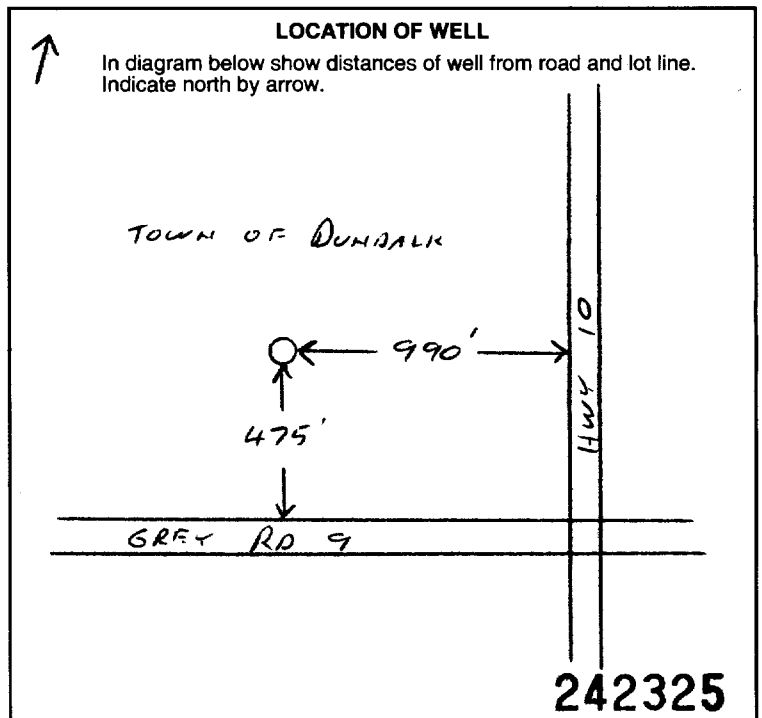
WATER RECORD			
Water found at - feet	Kind of water		
109-10-13 125	1 <input checked="" type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	14
154-18 215	1 <input checked="" type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	19
260-23 300	1 <input checked="" type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	24
310-28	1 <input checked="" type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	29
30-33	1 <input type="checkbox"/> Fresh 2 <input type="checkbox"/> Salty	3 <input type="checkbox"/> Sulphur 4 <input type="checkbox"/> Minerals 6 <input type="checkbox"/> Gas	34

CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
10-11 10 1/4	1 <input checked="" type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic	.250	+2	105
17-18 9 3/8	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input checked="" type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic		105	330
24-25	1 <input type="checkbox"/> Steel 2 <input type="checkbox"/> Galvanized 3 <input type="checkbox"/> Concrete 4 <input type="checkbox"/> Open hole 5 <input type="checkbox"/> Plastic			27-30

SCREEN	Sizes of opening (Slot No.)		Diameter	Length
	From	To	inches	feet
	Material and type			Depth at top of screen
				feet

PLUGGING & SEALING RECORD			
<input checked="" type="checkbox"/> Annular space		<input type="checkbox"/> Abandonment	
Depth set at - feet		Material and type (Cement grout, bentonite, etc.)	
From	To		
0-10-13	105-17	BENTONITE	
18-21	22-25		
26-29	30-33		

PUMPING TEST	Pumping test method		Pumping rate	Duration of pumping		
	1 <input type="checkbox"/> Pump	2 <input type="checkbox"/> Bailer	GPM	Hours	Mins	
	Static level	Water level end of pumping	Water levels during			
	19-21	22-24	15 minutes	30 minutes	45 minutes	60 minutes
		feet	feet	feet	feet	
	If flowing give rate	Pump intake set at	Water at end of test			
	GPM	feet	<input type="checkbox"/> Clear <input type="checkbox"/> Cloudy			
	Recommended pump type	Recommended pump setting	Recommended pump rate			
	<input type="checkbox"/> Shallow <input type="checkbox"/> Deep	feet	GPM			



FINAL STATUS OF WELL			
1 <input checked="" type="checkbox"/> Water supply	5 <input type="checkbox"/> Abandoned, insufficient supply	9 <input type="checkbox"/> Unfinished	
2 <input type="checkbox"/> Observation well	6 <input type="checkbox"/> Abandoned, poor quality	10 <input type="checkbox"/> Replacement well	
3 <input checked="" type="checkbox"/> Test hole	7 <input type="checkbox"/> Abandoned (Other)		
4 <input type="checkbox"/> Recharge well	8 <input type="checkbox"/> Dewatering		
WATER USE			
1 <input type="checkbox"/> Domestic	5 <input type="checkbox"/> Commercial	9 <input type="checkbox"/> Not use	
2 <input type="checkbox"/> Stock	6 <input checked="" type="checkbox"/> Municipal	10 <input type="checkbox"/> Other	
3 <input type="checkbox"/> Irrigation	7 <input type="checkbox"/> Public supply		
4 <input type="checkbox"/> Industrial	8 <input type="checkbox"/> Cooling & air conditioning		
METHOD OF CONSTRUCTION			
1 <input type="checkbox"/> Cable tool	5 <input type="checkbox"/> Air percussion	9 <input type="checkbox"/> Driving	
2 <input checked="" type="checkbox"/> Rotary (conventional)	6 <input type="checkbox"/> Boring	10 <input type="checkbox"/> Digging	
3 <input type="checkbox"/> Rotary (reverse)	7 <input type="checkbox"/> Diamond	11 <input type="checkbox"/> Other	
4 <input type="checkbox"/> Rotary (air)	8 <input type="checkbox"/> Jetting		

Name of Well Contractor MEADOWBANK DRILLING SERVICES	Well Contractor's Licence No. 6865
Address RR 1, EORA, ON, N0B 1S0	
Name of Well Technician JIM BROADFOOT	Well Technician's Licence No. T0370
Signature of Technician/Contractor <i>[Signature]</i>	Submission date day mo yr

MINISTRY USE ONLY	Data source	Contractor 6865	Date received JUN 10 2002
	Date of inspection	Inspector	
	Remarks CSS.ES2		

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

11

2515624

Municipality
25012

Con.
SRW 02

County or District: [Redacted] Township/Borough/City/Town/Village: **PROTON** Con. block tract survey, etc.: **LOW 2 SRW** Lot: **227**
Address of Well Location: _____ Date completed: **4 6 03**
day month year

Zone Easting Northing RC Elevation RC Basin Code ii iii iv
21 10 12 17 18 24 25 26 30 31 47

LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions)					
General colour	Most common material	Other materials	General description	Depth - feet	
				From	To
	TOPSOIL			0-1	
BEN	CLAY	HARD PAN, STONES		1-116	
	LIMESTONE			116-142	

31 _____
32 _____

41 WATER RECORD			
Water found at - feet	Kind of water		
121	<input checked="" type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur	<input type="checkbox"/> Minerals
	<input type="checkbox"/> Salty	<input type="checkbox"/> Gas	
133	<input type="checkbox"/> Fresh	<input type="checkbox"/> Sulphur	<input type="checkbox"/> Minerals
	<input type="checkbox"/> Salty	<input type="checkbox"/> Gas	

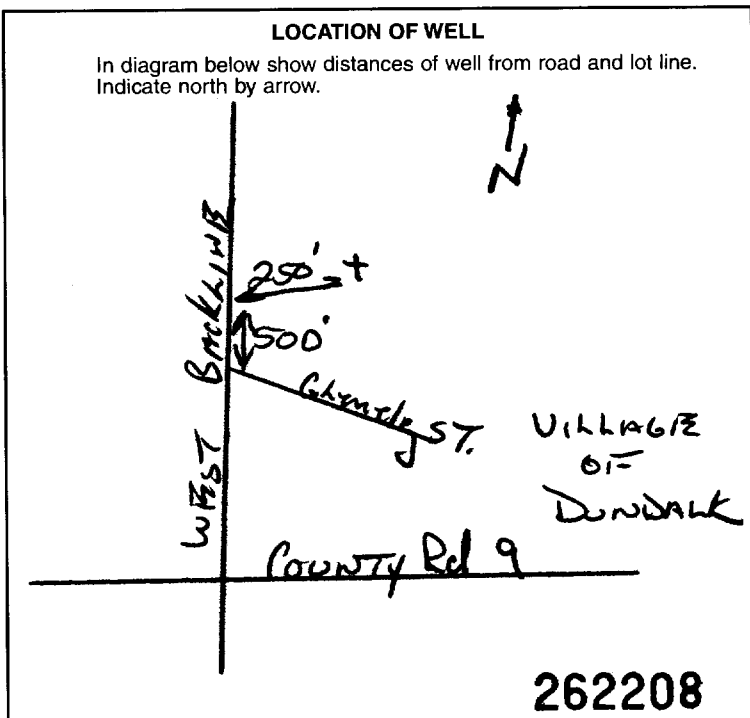
51 CASING & OPEN HOLE RECORD				
Inside diam inches	Material	Wall thickness inches	Depth - feet	
			From	To
6 1/4	<input checked="" type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input type="checkbox"/> Open hole <input type="checkbox"/> Plastic	1.88	+2	-118
6	<input type="checkbox"/> Steel <input type="checkbox"/> Galvanized <input type="checkbox"/> Concrete <input checked="" type="checkbox"/> Open hole <input type="checkbox"/> Plastic		118	-142

SCREEN	Sizes of opening (Slot No.)	Diameter inches	Length feet

61 PLUGGING & SEALING RECORD		
Annular space		Abandonment
Depth set at - feet	Material and type (Cement grout, bentonite, etc.)	
0-35	Bentonite GROUT	

AIR LIFT 25 GPM

71 PUMPING TEST		Pumping rate	Duration of pumping
<input checked="" type="checkbox"/> Pump	<input type="checkbox"/> Bailer	12 GPM	2 Hours
Static level	Water level end of pumping	Water levels during Pumping	
27 feet	31 feet	15 minutes: 31 feet	30 minutes: 31 feet
		45 minutes: 31 feet	60 minutes: 31 feet
If flowing give rate	Pump intake set at	Water at end of test	
	60 feet	<input checked="" type="checkbox"/> Clear <input type="checkbox"/> Cloudy	
Recommended pump type	Recommended pump setting	Recommended pump rate	
<input checked="" type="checkbox"/> Shallow <input checked="" type="checkbox"/> Deep		10-12 GPM	



FINAL STATUS OF WELL		
<input checked="" type="checkbox"/> Water supply	<input type="checkbox"/> Abandoned, insufficient supply	<input type="checkbox"/> Unfinished
<input type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well
<input type="checkbox"/> Test hole	<input type="checkbox"/> Abandoned (Other)	
<input type="checkbox"/> Recharge well	<input type="checkbox"/> Dewatering	

WATER USE		
<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not use
<input type="checkbox"/> Stock	<input type="checkbox"/> Municipal	<input type="checkbox"/> Other
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Public supply	
<input type="checkbox"/> Industrial	<input type="checkbox"/> Cooling & air conditioning	

METHOD OF CONSTRUCTION		
<input type="checkbox"/> Cable tool	<input checked="" type="checkbox"/> Air percussion	<input type="checkbox"/> Driving
<input checked="" type="checkbox"/> Rotary (conventional)	<input type="checkbox"/> Boring	<input type="checkbox"/> Digging
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Other
<input type="checkbox"/> Rotary (air)	<input type="checkbox"/> Jetting	

Name of Well Contractor NEUMANN WELL DRILLING	Well Contractor's Licence No. 7015
Address RR# A DUNDALK	
Name of Well Technician TOM GILLIES	Well Technician's Licence No. 1-1958
Signature of Technician/Contractor <i>Tom Gillies</i>	Submission date day mo yr

MINISTRY USE ONLY	Data source 7015	Contractor 7015	Date received JUL 16 2003
	Date of inspection	Inspector	
	Remarks CSS.ESS		

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

MUN		CON		LOT	
-----	--	-----	--	-----	--



Address of Well Location (County/District/Municipality): **165 PROTON ST**

Township: **DUNDALK**

RR#/Street Number/Name: **TOWNSHIP SOUTHGATE**

City/Town/Village: **COUNTY OF GREY**

Site/Compartment/Block/Tract etc.:

GPS Reading: NAD **83** Zone **17** Easting **548228** Northing **4690807** Unit Make/Model: **Garmin** 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	Metres To
Black	top soil	sand	Loose	0	0.3
Brown	silt	Cobbles, Sand	Dense	0.3	4.57
AMEC					

Hole Diameter

Depth From	Metres To	Diameter Centimetres
0	4.57	20

Water Record

Water found at _____ metres / Kind of Water

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 Metres	
			From	To
5	Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized <input type="checkbox"/>	SLAD	0	1.52
6	Steel <input type="checkbox"/> Fibreglass <input type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized <input type="checkbox"/>		4.57	1.52

Screen

Outside diam Steel Fibreglass Plastic Concrete Galvanized

Slot No. **10**

No Casing or Screen

Open hole

Test of Well Yield

Pumping test method	Draw Down		Recovery	
	Time min	Water Level Metres	Time min	Water Level Metres
Pump intake set at - (metres)	Static Level			
Pumping rate - (litres/min)	1		1	
Duration of pumping _____ hrs + _____ min	2		2	
Final water level end of pumping _____ metres	3		3	
Recommended pump type, <input type="checkbox"/> Shallow <input type="checkbox"/> Deep	4		4	
Recommended pump depth, _____ metres	5		5	
Recommended pump rate, (litres/min)	10		10	
If flowing give rate - (litres/min)	15		15	
	20		20	
	25		25	
If pumping discontinued, give reason.	30		30	
	40		40	
	50		50	
	60		60	

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	0.3	Cement	
0.3	1.0	Bentonite Chips	

Location of Well

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

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

Well Contractor/Technician Information

Name of Well Contractor: **ATCOST Drilling** Well Contractor's Licence No.: **6032**

Business Address (street name, number, city etc.): **2160 Hwy #7 Concord**

Name of Well Technician (last name, first name): **Monette Chris** Well Technician's Licence No.: **7685**

Signature of Technician/Contractor: *[Signature]* Date Submitted: **2006 11 30**

Audit No. **Z 46561** Date Well Completed: **2006 11 30**

Was the well owner's information package delivered? Yes No Date Delivered: **2006 11 30**

Ministry Use Only

Data Source: _____ Contractor: **6032**

Date Received: **FEB 26 2007** Date of Inspection: _____

Remarks: _____ Well Record Number: _____

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

MUN		CON		LOT	
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Well Owner's Information and Location of Well Information

First Name IMPERIAL	Last Name OIL	Mailing Address (Street Number/Name, RR, Lot, Concession) 90 WYNFORD DRIVE			
County/District/Municipality TORONTO	Township/City/Town/Village TORONTO	Province Ontario	Postal Code	Telephone Number (include area code) 416-441-7866	
Address of Well Location (County/District/Municipality)		Township	Lot	Concession	

RR#/Street Number/Name 185 PROTON ST	City/Town/Village DUNDALK	Site/Compartment/Block/Tract etc.
GPS Reading	NAD Zone Easting Northing 813 1177 0548236 4890905	Unit Make/Model GARMIN
Mode of Operation:		<input checked="" type="checkbox"/> Undifferentiated <input type="checkbox"/> Averaged <input type="checkbox"/> Differentiated, specify _____

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth Metres	
				From	To
Brown	SILT	SAND		0	1.2
Brown	SILT	SAND TRACE GRAVEL & CLAY		1.2	4.6

Hole Diameter		
Depth From	Metres To	Diameter Centimetres
0	4.3m	20.32cm

Construction Record				
Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Metres To
Casing				
5.1cm	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	0.48cm	0	1.2m
Screen				
6.0cm	<input type="checkbox"/> Steel <input type="checkbox"/> Fibreglass <input checked="" type="checkbox"/> Plastic <input type="checkbox"/> Concrete <input type="checkbox"/> Galvanized	Slot No. 10	1.2m	4.3m
No Casing or Screen				
<input type="checkbox"/> Open hole				

Test of Well Yield				
Pumping test method	Draw Down		Recovery	
	Time min	Water Level Metres	Time min	Water Level Metres
Pump intake set at - (metres)	Static Level			
Pumping rate - (litres/min)	1		1	
Duration of pumping _____ hrs + _____ min	2		2	
Final water level end of pumping _____ metres	3		3	
Recommended pump type. <input type="checkbox"/> Shallow <input type="checkbox"/> Deep	4		4	
Recommended pump depth. _____ metres	5		5	
Recommended pump rate. (litres/min)	10		10	
If flowing give rate - (litres/min)	15		15	
	20		20	
	25		25	
If pumping discontinued, give reason.	30		30	
	40		40	
	50		50	
	60		60	

Water Record	
Water found at _____ Metres	Kind of Water
<input type="checkbox"/> m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____	<input type="checkbox"/> m <input type="checkbox"/> Fresh <input type="checkbox"/> Sulphur <input type="checkbox"/> Gas <input type="checkbox"/> Salty <input type="checkbox"/> Minerals <input type="checkbox"/> Other: _____
After test of well yield, water was	
<input type="checkbox"/> Clear and sediment free <input type="checkbox"/> Other, specify _____	
Chlorinated	<input type="checkbox"/> Yes <input type="checkbox"/> No

Plugging and Sealing Record		
Depth set at - Metres	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
From To		
0 1	HOLE PLUG	0.02976

Method of Construction			
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Rotary (air)	<input type="checkbox"/> Diamond	<input type="checkbox"/> Digging
<input type="checkbox"/> Rotary (conventional)	<input type="checkbox"/> Air percussion	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Other
<input type="checkbox"/> Rotary (reverse)	<input type="checkbox"/> Boring	<input type="checkbox"/> Driving	ALY-ETZ
Water Use			
<input type="checkbox"/> Domestic	<input type="checkbox"/> Industrial	<input type="checkbox"/> Public Supply	<input checked="" type="checkbox"/> Other
<input type="checkbox"/> Stock	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used	TESTING
<input type="checkbox"/> Irrigation	<input type="checkbox"/> Municipal	<input type="checkbox"/> Cooling & air conditioning	
Final Status of Well			
<input type="checkbox"/> Water Supply	<input type="checkbox"/> Recharge well	<input type="checkbox"/> Unfinished	<input type="checkbox"/> Abandoned, (Other)
<input checked="" type="checkbox"/> Observation well	<input type="checkbox"/> Abandoned, insufficient supply	<input type="checkbox"/> Dewatering	
<input type="checkbox"/> Test Hole	<input type="checkbox"/> Abandoned, poor quality	<input type="checkbox"/> Replacement well	

Well Contractor/Technician Information	
Name of Well Contractor KODIAK ENVIRONMENTAL	Well Contractor's Licence No. 6988
Business Address (street name, number, city etc.) 871 EQUESTRIAN CT. OKVILLE, ONT.	
Name of Well Technician (last name, first name) RITCEY DOUG	Well Technician's Licence No. T-2656
Signature of Technician/Contractor X [Signature]	Date Submitted YYYY MM DD 2007 10 24

Location of Well	
In diagram below show distances of well from road, lot line, and building. Indicate north by arrow.	
Audit No. Z 53653	Date Well Completed YYYY MM DD 2007 04 07
Was the well owner's information package delivered? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Delivered YYYY MM DD

Ministry Use Only	
Data Source	Contractor 6988
Date Received SEP 10 2007	Date of Inspection YYYY MM DD
Remarks	Well Record Number

DECOMMISSION
NO TAG PRESENT

 Measurements recorded in: Metric Imperial

Well Owner's Information

First Name <u>IMPERIAL OIL</u>		Last Name / Organization		E-mail Address		<input type="checkbox"/> Well Constructed by Well Owner	
Mailing Address (Street Number/Name) <u>111 ST. CLAIR AVENUE W.</u>		Municipality <u>TORONTO</u>	Province <u>ONTARIO</u>	Postal Code <u>M5W1K3</u>	Telephone No. (inc. area code)		

Well Location

Address of Well Location (Street Number/Name) <u>165 PROTON STREET NORTH</u>		Township <u>PROTON</u>	Lot <u>229</u>	Concession <u>RANGE 2W</u>	
County/District/Municipality <u>GREY</u>		City/Town/Village <u>DUNDALK</u>	Province Ontario	Postal Code	
UTM Coordinates	Zone <u>18</u>	Easting <u>317548200</u>	Northing <u>4890909</u>	Municipal Plan and Sublot Number	

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
- WELLS DECOMMISSIONED PER REG 903.21 - ALL WELL MATERIALS REMOVED FROM BOREHOLE - BOREHOLES SEALED W/ BENTONITE - NO WELL TAG PRESENT.					

Annular Space		
Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
From	To	
<u>0.0</u>	<u>0.2 CONCRETE</u>	
<u>0.2</u>	<u>6.1 BENTON</u>	
	<u>6.1 EOM</u>	

Method of Construction		Well Use		
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify _____		<input type="checkbox"/> 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
<u>5.0</u>	<u>PVC</u>		<u>0.0</u>	<u>0.2</u>

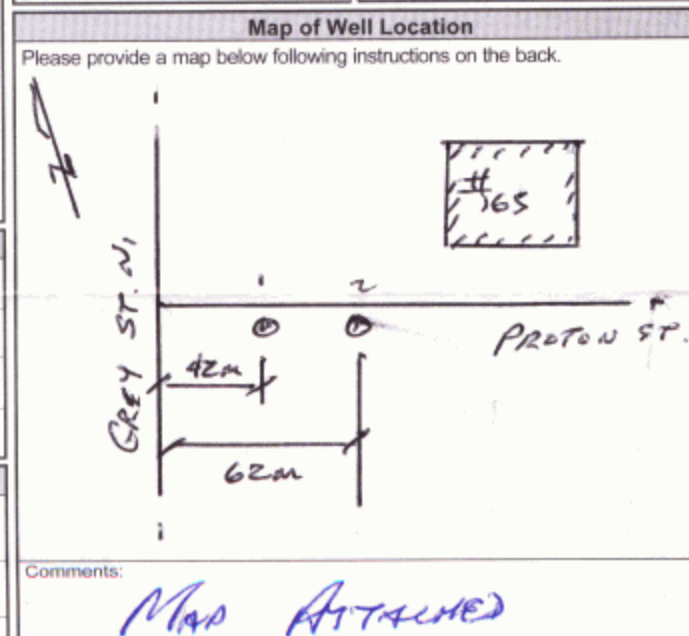
Water Supply
 Replacement Well
 Test Hole
 Recharge Well
 Dewatering Well
 Observation and/or Monitoring Hole
 Alteration (Construction)
 Abandoned, Insufficient Supply
 Abandoned, Poor Water Quality
 Abandoned, other, specify _____
 Other, specify _____

Construction Record - Screen				
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
<u>6.3</u>	<u>PVC</u>		<u>0.0</u>	<u>6.1</u>

Water Details		Hole Diameter	
Water found at Depth <u>1.2 (m/ft)</u>	Kind of Water: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft)	Diameter (cm/in)
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	From	To
Water found at Depth <u>(m/ft)</u>	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____		
Water found at Depth <u>(m/ft)</u>	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested		
	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____		

Well Contractor and Well Technician Information			
Business Name of Well Contractor SONIC SOIL SAMPLING INC.		Well Contractor's Licence No. <u>7147</u>	
Business Address (Street Number/Name) <u>688 MILLWAY AVENUE</u>		Municipality YORK	
Province ONTARIO	Postal Code <u>L4K 3V2</u>	Business E-mail Address <u>sonic@sonicsoil.com</u>	
Bus. Telephone No. (inc. area code) <u>905 660 0501</u>		Name of Well Technician (Last Name, First Name) ARCHIBALD, ALAN	
Well Technician's Licence No. <u>2881</u>	Signature of Technician and/or Contractor <i>[Signature]</i>		Date Submitted <u>2008/12/05</u>

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify _____	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: Pump intake set at (m/ft) Pumping rate (l/min / GPM) Duration of pumping hrs + min Final water level end of pumping (m/ft) If flowing give rate (l/min / GPM) Recommended pump depth (m/ft) Recommended pump rate (l/min / GPM) Well production (l/min / GPM) Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	Static Level			
	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
10		10		
15		15		
20		20		
25		25		
30		30		
40		40		
50		50		
60		60		



Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered Y Y Y Y M M D D	Ministry Use Only Audit No. Z 85200 DEC 17 2008 Received
	Date Work Completed <u>2008 11 25</u>	

No TAG FOUND

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name: Imperial Oil Ltd
 Last Name / Organization: Imperial Oil Ltd
 E-mail Address: [Blank]
 Well Constructed by Well Owner

Mailing Address (Street Number/Name): 90 Wynford Drive
 Municipality: Toronto
 Province: Ont
 Postal Code: M3C1K5
 Telephone No. (inc. area code): 416 441 7862

Well Location

Address of Well Location (Street Number/Name): 165 Proton St. W.
 Township: Grey
 Lot: [Blank]
 Concession: [Blank]

County/District/Municipality: GREY
 City/Town/Village: Dundalk
 Province: Ontario
 Postal Code: [Blank]

UTM Coordinates: Zone 18, Easting 17543260, Northing 4890289
 Municipal Plan and Sublot Number: [Blank]
 Other: [Blank]

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

Hole No	EASTING	NORTHING	Other Materials	SEALANT	Depth (m/ft)	
					From	To
1	17/543260	4890289		Bentonite	0'	15'
2	17/543263	4890285		Bentonite	0'	15'

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
From: [Blank] To: [Blank]	[Blank]	[Blank]

Results of Well Yield Testing

After test of well yield, water was:	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
<input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify [Blank]				
If pumping discontinued, give reason: [Blank]	Static Level			
Pump intake set at (m/ft)	1		1	
Pumping rate (l/min / GPM)	2		2	
Duration of pumping hrs + min	3		3	
Final water level end of pumping (m/ft)	4		4	
If flowing give rate (l/min / GPM)	5		5	
Recommended pump depth (m/ft)	10		10	
Recommended pump rate (l/min / GPM)	15		15	
Well production (l/min / GPM)	20		20	
Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	25		25	
	30		30	
	40		40	
	50		50	
	60		60	

Method of Construction

Cable Tool
 Rotary (Conventional)
 Rotary (Reverse)
 Boring
 Air percussion
 Other, specify [Blank]

Diamond
 Jetting
 Driving
 Digging
 Other, specify [Blank]

Well Use

Public
 Commercial
 Not used
 Domestic
 Municipal
 Dewatering
 Livestock
 Test Hole
 Monitoring
 Irrigation
 Cooling & Air Conditioning
 Industrial
 Other, specify [Blank]

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)	
			From	To
[Blank]	[Blank]	[Blank]	[Blank]	[Blank]

Status of Well

Water Supply
 Replacement Well
 Test Hole
 Recharge Well
 Dewatering Well
 Observation and/or Monitoring Hole
 Alteration (Construction)
 Abandoned, Insufficient Supply
 Abandoned, Poor Water Quality
 Abandoned, other, specify Not in Use
 Other, specify [Blank]

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
[Blank]	[Blank]	[Blank]	[Blank]	[Blank]

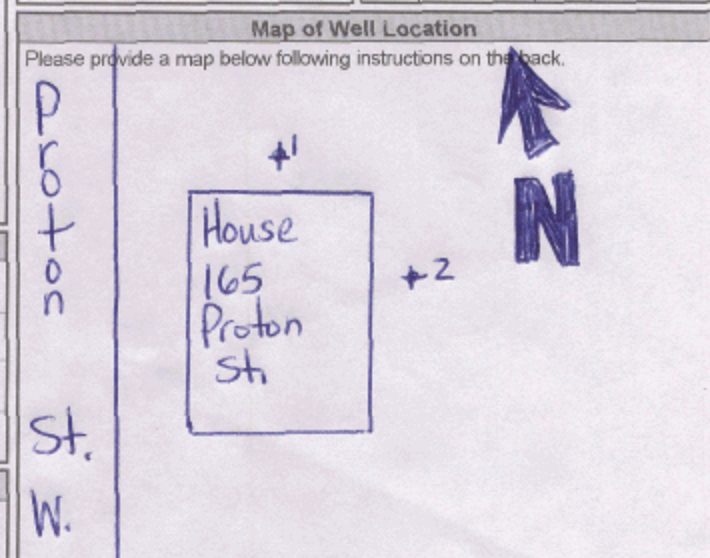
Water Details

Water found at Depth (m/ft)	Kind of Water:	Hole Diameter
[Blank]	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify [Blank]	Depth (m/ft) From: [Blank] To: [Blank] Diameter (cm/in): [Blank]
[Blank]	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify [Blank]	[Blank]
[Blank]	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify [Blank]	[Blank]

Well Contractor and Well Technician Information

Business Name of Well Contractor: Atcost Soil Drilling
 Well Contractor's Licence No.: 6032
 Business Address (Street Number/Name): 2160 Hwy 7 Concord
 Municipality: York
 Province: Ont
 Postal Code: L4K1W6
 Business E-mail Address: [Blank]

Bus. Telephone No. (inc. area code): 905 669 1253
 Name of Well Technician (Last Name, First Name): Green Wayne
 Well Technician's Licence No.: [Blank]
 Signature of Technician and/or Contractor: [Signature]
 Date Submitted: 2010/1/09



Comments: Consultant Hazco

Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered: YYY Y M M D D 20100902	Date Work Completed: 20100902
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Ministry Use Only

Audit No.: z121173
 Received: DEC 03 2010

DECOM

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name: IMPERIAL OIL LTD
 Last Name / Organization: IMPERIAL OIL LTD
 E-mail Address: [Blank]
 Well Constructed by Well Owner
 Mailing Address (Street Number/Name): 90 WYNFORD DR
 Municipality: TORONTO
 Province: ONT
 Postal Code: M3C1K5
 Telephone No. (inc. area code): 416 441 7862

Well Location

Address of Well Location (Street Number/Name): 165 PRYTON ST. W.
 Township: G2E7
 City/Town/Village: DUNDALK
 County/District/Municipality: GREY
 Province: Ontario
 Postal Code: [Blank]
 UTM Coordinates: Zone 17, Easting 543264, Northing 4890293
 Municipal Plan and Sublot Number: [Blank]

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	Depth (m/ft) To	
	DECOM					
	(1) Pull 2 inner plastic pipes, chlorinate, backfill from 140' - 37'6" with sand, 1" bentonite chips, grout up to 5' + fill top 5' with bentonite chips. Static water table at 37'6".				0	140'

Annular Space		
Depth Set at (m/ft) From	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
	Bentonite Chips DECOM	

Method of Construction		Well Use	
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial
<input type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input type="checkbox"/> Domestic	<input type="checkbox"/> Municipal
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial	
<input type="checkbox"/> Other, specify		<input type="checkbox"/> 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	Depth (m/ft) To	
					<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input checked="" type="checkbox"/> Abandoned, other, specify: NOT USE <input type="checkbox"/> Other, specify

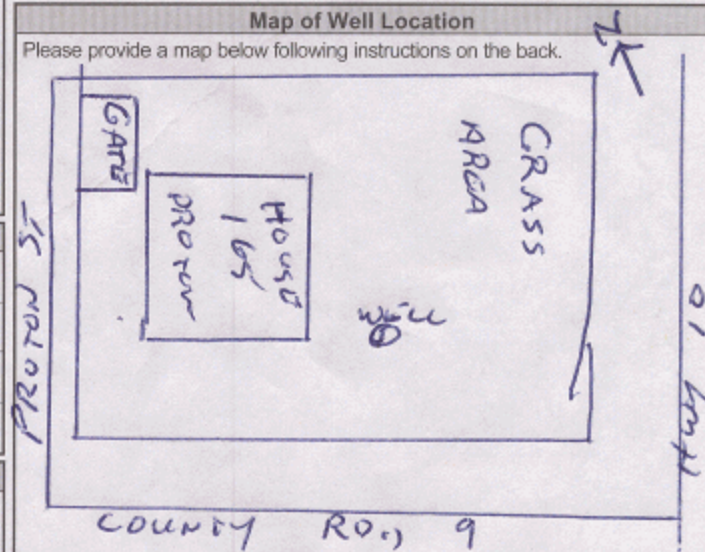
Construction Record - Screen			
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Depth (m/ft) From	Diameter (cm/in) To

Well Contractor and Well Technician Information

Business Name of Well Contractor: ATCOST DRILLING
 Well Contractor's Licence No.: 6032
 Business Address (Street Number/Name): 2160 HWY 7 CONCORD VAUGHAN
 Municipality: VAUGHAN
 Province: ONT
 Postal Code: L4K1W6
 Business E-mail Address: info@atcostdrilling.com
 Bus. Telephone No. (inc. area code): 905 669 1253
 Name of Well Technician (Last Name, First Name): TRUDICAN ORLA
 Well Technician's Licence No.: 12394
 Signature of Technician and/or Contractor: [Signature]
 Date Submitted: 20100920

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
<input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	1		1	
	2		2	
	3		3	
	4		4	
	5		5	
	10		10	
15		15		
20		20		
25		25		
30		30		
40		40		
50		50		
60		60		



Comments: HAZCO 10A 202

Well owner's information package delivered: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered: YYY Y MM DD 20100920	Date Work Completed: 20100920
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Ministry Use Only

Audit No.: Z108898
 DEC 03 2010
 Received: [Signature]

Measurements recorded in: Metric Imperial

Page _____ of _____

A 117947

Well Owner's Information

First Name _____ Last Name / Organization **Imperial Oil** E-mail Address _____ Well Constructed by Well Owner

Mailing Address (Street Number/Name) **90 Wyncord Drive** Municipality **Toronto** Province **Ont** Postal Code **M3C1K5** Telephone No. (inc. area code) _____

Well Location

Address of Well Location (Street Number/Name) **185 Proton St** Township _____ Lot _____ Concession _____

County/District/Municipality _____ City/Town/Village **Dundalk** Province **Ontario** Postal Code _____

UTM Coordinates Zone Easting Northing Municipal Plan and Sublot Number Other

NAD 83 **1716156864830612**

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 Brown	Fill Cobble	Sandy Till	moist dry	0'	8'
				8'	85'

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m ³ /ft ³)
From	To	
15'	8'	Sand
8'	1'	Bentonite
1'	0'	Sand / Flushmort / concrete

Method of Construction

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 _____

Results of Well Yield Testing

After test of well yield, water was:

Clear and sand free

Other, specify _____

If pumping discontinued, give reason: _____

Pump intake set at (m/ft) _____

Pumping rate (l/min / GPM) _____

Duration of pumping _____ hrs + _____ min

Final water level end of pumping (m/ft) _____

If flowing give rate (l/min / GPM) _____

Recommended pump depth (m/ft) _____

Recommended pump rate (l/min / GPM) _____

Well production (l/min / GPM) _____

Disinfected? Yes No

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
Static Level				
1		1		
2		2		
3		3		
4		4		
5		5		
10		10		
15		15		
20		20		
25		25		
30		30		
40		40		
50		50		
60		60		

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
2"	Plastic	40	10'	0'	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input checked="" type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
2"	Plastic	10	15'	10'

Water Details

Water found at Depth (m/ft) _____ Kind of Water: Fresh Untested Gas Other, specify _____

Water found at Depth (m/ft) _____ Kind of Water: Fresh Untested Gas Other, specify _____

Water found at Depth (m/ft) _____ Kind of Water: Fresh Untested Gas Other, specify _____

Hole Diameter

Depth (m/ft)	Diameter (cm/in)	
From	To	
15'	0'	8"

Well Contractor and Well Technician Information

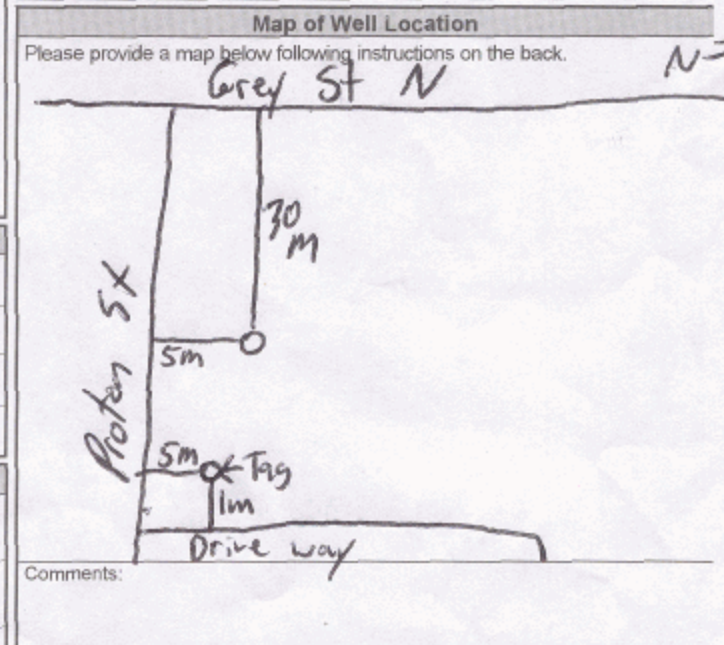
Business Name of Well Contractor **Profile Drilling** Well Contractor's Licence No. **7215**

Business Address (Street Number/Name) **6525 Northam Drive** Municipality **Mississauga**

Province **ON** Postal Code **L4V1J2** Business E-mail Address **Jason@Profiledrilling.com**

Bus. Telephone No. (inc. area code) **4166506444** Name of Well Technician (Last Name, First Name) **Stochki, Jason**

Well Technician's Licence No. **2978** Signature of Technician and/or Contractor *[Signature]* Date Submitted **20110709**



Well owner's information package delivered Yes No

Date Package Delivered **20110629**

Date Work Completed **20110629**

Ministry Use Only

Audit No. **z133646**

Received **AUG 09 2011**

A089996

Address of Well Location (Street Number/Name) 772418		Township PROTON	Lot 220	Concession 1
County/District/Municipality GREY		City/Town/Village DUNDALK	Province Ontario	Postal Code N0C1B0
UTM Coordinates NAD 83	Zone 17	Easting 547578	Northing 4892878	Municipal Plan and Sublot Number

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)
				From To
	TOP SOIL			0 .3
BROWN	CLAY	STONES & ROCKS		.3 15.9
GREY	CLAY	STONES		15.9 29.6
GREY/BROWN	LIMASTONE		INTERMIXED	29.6 32.3

Annular Space			
Depth Set at (m)	Type of Sealant Used (Material and Type)	Volume Placed (m³)	
From To			
0 13	BENTONITE SLURRY	.3	

Results of Well Yield Testing					
After test of well yield, water was:		Draw Down		Recovery	
<input checked="" type="checkbox"/> Clear and sand free	<input type="checkbox"/> Other, specify	Time (min)	Water Level (m)	Time (min)	Water Level (m)
If pumping discontinued, give reason:		Static Level	7.28		9.16
Pump intake set at (m)		1	8.18	1	8.18
Pumping rate (l/min / GPM)		2	8.36	2	8.08
Duration of pumping		3	8.46	3	8.02
Final water level end of pumping (m)		4	8.56	4	7.95
If flowing give rate (l/min / GPM)		5	8.62	5	7.92
Recommended pump depth (m)		10	8.79	10	7.75
Recommended pump rate (l/min / GPM)		15	8.89	15	7.68
Well production (l/min / GPM)		20	8.96	20	7.62
Disinfected?		25	8.99	25	7.57
<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		30	9.02	30	7.53
		40	9.10	40	7.49
		50	9.12	50	7.46
		60	9.16	60	7.44

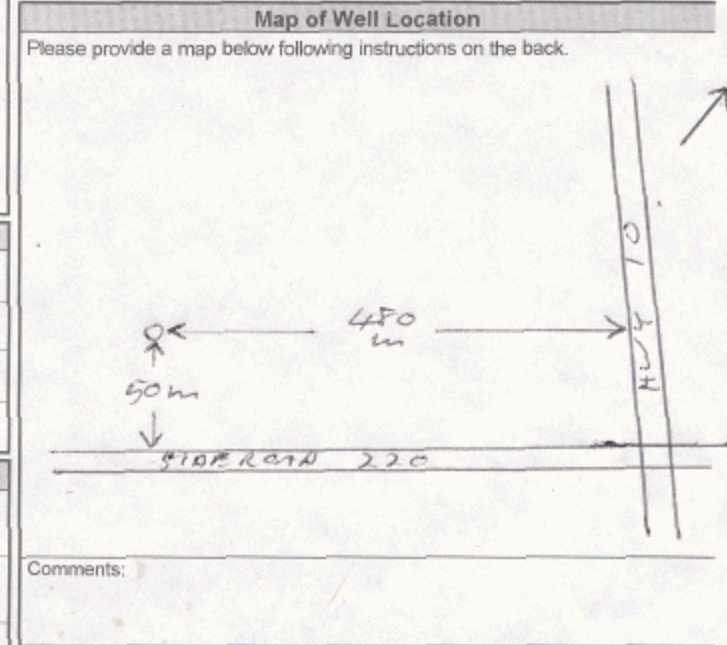
Method of Construction		Well Use		
<input type="checkbox"/> Cable Tool	<input type="checkbox"/> Diamond	<input type="checkbox"/> Public	<input type="checkbox"/> Commercial	<input type="checkbox"/> Not used
<input checked="" type="checkbox"/> Rotary (Conventional)	<input type="checkbox"/> Jetting	<input checked="" type="checkbox"/> Domestic	<input type="checkbox"/> Municipal	<input type="checkbox"/> Dewatering
<input type="checkbox"/> Rotary (Reverse)	<input type="checkbox"/> Driving	<input checked="" type="checkbox"/> Livestock	<input type="checkbox"/> Test Hole	<input type="checkbox"/> Monitoring
<input type="checkbox"/> Boring	<input type="checkbox"/> Digging	<input type="checkbox"/> Irrigation	<input type="checkbox"/> Cooling & Air Conditioning	
<input type="checkbox"/> Air percussion		<input type="checkbox"/> Industrial		
<input type="checkbox"/> Other, specify		<input type="checkbox"/> Other, specify		

Construction Record - Casing				Status of Well	
Inside Diameter (cm)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm)	Depth (m)		
			From To		
16.0	STEEL	.5	+.8 30.7	<input checked="" type="checkbox"/> Water Supply	
			30.7 32.3	<input type="checkbox"/> Replacement Well	
				<input type="checkbox"/> Test Hole	
				<input type="checkbox"/> Recharge Well	
				<input type="checkbox"/> Dewatering Well	
				<input type="checkbox"/> Observation and/or Monitoring Hole	
				<input type="checkbox"/> Alteration (Construction)	
				<input type="checkbox"/> Abandoned, Insufficient Supply	
				<input type="checkbox"/> Abandoned, Poor Water Quality	
				<input type="checkbox"/> Abandoned, other, specify	
				<input type="checkbox"/> Other, specify	

Construction Record - Screen			
Outside Diameter (cm)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m)
			From To

Water Details		Hole Diameter	
Water found at Depth (m)	Kind of Water: <input type="checkbox"/> Fresh <input checked="" type="checkbox"/> Untested	Depth (m)	Diameter (cm)
		From To	
32	<input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	0 6.4	25.0
		6.4 30.7	20.0
		30.7 32.3	15.6

Well Contractor and Well Technician Information			
Business Name of Well Contractor WELL INITIATIVES		Well Contractor's Licence No. 7 2 2 1	
Business Address (Street Number/Name) 15 TOWNLINE		Municipality ORANGEVILLE	
Province ONT	Postal Code N0B1S0	Business E-mail Address	
Bus. Telephone No. (inc. area code) 519 846 8289		Name of Well Technician (Last Name, First Name) BROADFOOT JIM	
Well Technician's Licence No. 0 3 7 0		Signature of Technician and/or Contractor Jim Broadfoot	
		Date Submitted 2011 07 12	



Well owner's information package delivered		Date Package Delivered	Ministry Use Only	
<input type="checkbox"/> Yes	<input type="checkbox"/> No	Y Y Y Y M M D D 2011 07 12	Audit No. z118780	Received AUG 19 2011

Measurements recorded in: Metric Imperial

Well Owner's Information

First Name: [Redacted] Last Name / Organization: **WHITE ROSE PARK DIV 10 2179107 ONTARIO INC**
 Mailing Address (Street Number/Name): **138 KALE CRESCENT** Municipality: **MAPLE** Province: **ON**

Well Location

Address of Well Location (Street Number/Name): **LOT 227, TSH of SOUTHEAST, former tshp of PROTON** Township: **227** Concession: **RANGE 2W**
 County/District/Municipality: **COUNTY OF GREY** City/Town/Village: **DUNDALK** Province: **Ontario** Postal Code: **NOC 1B0**
 UTM Coordinates: Zone **83** Easting **17544487** Northing **4887450** Municipal Plan and Sublot Number: **E 547975, N 4891096**

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	Depth (m/ft) To
Brown	silt sand and gravel	clay	Compact to v. dense.	0	20
"cluster of 10 piezometer installations"					

Annular Space			
Depth Set at (m/ft) From	Depth Set at (m/ft) To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
20	8	Sand	
8	0	Bentonite	

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input checked="" type="checkbox"/> Rotary (Conventional) <input type="checkbox"/> Rotary (Reverse) <input type="checkbox"/> Boring <input type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify	<input type="checkbox"/> Public <input type="checkbox"/> Domestic <input type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify
<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging	<input type="checkbox"/> Commercial <input type="checkbox"/> Municipal <input type="checkbox"/> Test Hole <input type="checkbox"/> Cooling & Air Conditioning
	<input type="checkbox"/> Not used <input type="checkbox"/> Dewatering <input checked="" type="checkbox"/> Monitoring

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)		<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
			From	To	
2	Plastic		2.5	10	

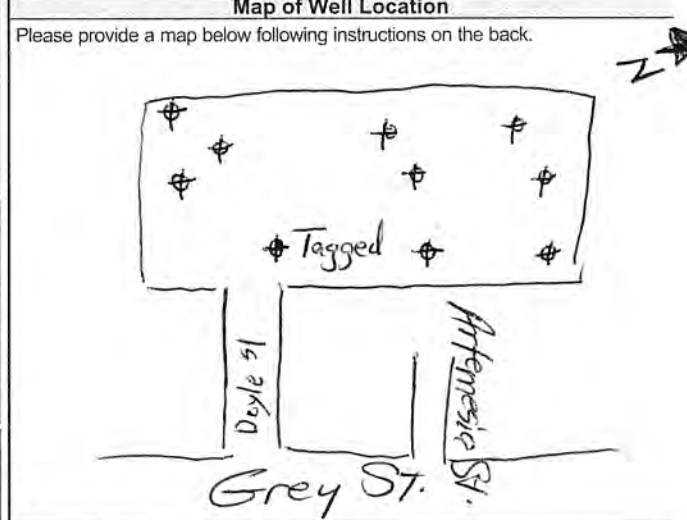
Construction Record - Screen					
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)		<input type="checkbox"/> Other, specify
			From	To	
2	Plastic		10	20	

Water Details		Hole Diameter	
Water found at Depth: 5 (m)	Kind of Water: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From: 0	Diameter (cm/ft) To: 20
Water found at Depth: 0	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From: 0	Diameter (cm/ft) To: 6
Water found at Depth: 0	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested	Depth (m/ft) From: 0	Diameter (cm/ft) To: 6

Well Contractor and Well Technician Information

Business Name of Well Contractor: **LONDON SOIL TEST LTD** Well Contractor's Licence No.: **7190**
 Business Address (Street Number/Name): **R.R. 6** Municipality: **DUNDALK**
 Province: **ON** Postal Code: **NOC1B0** Business E-mail Address: **info@londonsoil.com**
 Bus. Telephone No. (inc. area code): **519 455 5777** Name of Well Technician (Last Name, First Name): **Ross Ryan**
 Well Technician's Licence No.: **3576** Signature of Technician and/or Contractor: [Signature] Date Submitted: **2014/12/15**

Results of Well Yield Testing				
After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: Pump intake set at (m/ft) Pumping rate (l/min / GPM) Duration of pumping _____ hrs + _____ min Final water level end of pumping (m/ft) If flowing give rate (l/min / GPM) Recommended pump depth (m/ft) Recommended pump rate (l/min / GPM) Well production (l/min / GPM) Disinfected? <input type="checkbox"/> Yes <input type="checkbox"/> No	Static Level			
	1			
	2		2	
	3		3	
	4		4	
	5		5	
	10		10	
	15		15	
	20		20	
	25		25	
30		30		
40		40		
50		50		
60		60		



Comments:

Well owner's information package delivered: <input type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered: 2014/12/15	Ministry Use Only Audit No: 186058 FEB 09 2015
Date Work Completed: 2014/12/15		



Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue (<https://data.ontario.ca/dataset/well-records>).

[Go Back to Map](#)

Well ID

Well ID Number: 7285238

Well Audit Number: Z251816

Well Tag Number: A210321

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

Well Location

Address of Well Location	231 GLENELG DR

Township	PROTON TOWNSHIP
Lot	
Concession	
County/District/Municipality	GREY
City/Town/Village	Southgate
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 547796.00 Northing: 4890661.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
BRWN	SAND	SLTY		0 ft	15 ft
BRWN	SAND	SLTY	CLAY	15 ft	20 ft
GREY	CLAY	BLDR		20 ft	25 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
13 ft	0 ft	BENTONITE	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	

AUGER	Monitoring

Status of Well

Observation Wells

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
2 inch	PLASTIC	0 ft	15 ft

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
2.5 inch	PLASTIC	15 ft	25 ft

--	--	--	--

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7360

Results of Well Yield Testing

After test of well yield, water was	
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	
Duration of Pumping	
Final water level	
If flowing give rate	
Recommended pump depth	

Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
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	Untested

Hole Diameter

Depth From	Depth To	Diameter
0 ft	25 ft	3 inch

Audit Number: Z251816**Date Well Completed:** November 17, 2016**Date Well Record Received by MOE:** April 13, 2017

Related

How to use a Ministry of the Environment map (<https://www.ontario.ca/page/how-use-ministry-environment-map#wells>)

Technical documentation: Metadata record (<https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77>)

Updated: October 18, 2021

Published: March 20, 2014

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Well ID

Well ID Number: 7285242

Well Audit Number: Z251811

Well Tag Number: A210296

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

Well Location

Address of Well Location	231 GLENELG ST

Township	PROTON TOWNSHIP
Lot	
Concession	
County/District/Municipality	GREY
City/Town/Village	Southgate
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 547335.00 Northing: 4891170.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To
GREY	SAND	SILT	SOFT	0 ft	15 ft
BRWN	SAND	GRVL	HARD	15 ft	25 ft

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
12 ft	0 ft	BENTONITE	

Method of Construction & Well Use

Method of Construction	Well Use
Other Method	
AUGER	Monitoring

--	--

Status of Well

Observation Wells

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To
2 inch	PLASTIC		

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To
2.5 inch	PLASTIC		

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7360

Results of Well Yield Testing

After test of well yield, water was	
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	
Duration of Pumping	
Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	

Well Production	
Disinfected?	

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
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

Hole Diameter

Depth From	Depth To	Diameter
0 ft	25 ft	6 inch

Audit Number: Z251811

Date Well Completed: November 15, 2016

Date Well Record Received by MOE: April 13, 2017

Related

How to use a Ministry of the Environment map (<https://www.ontario.ca/page/how-use-ministry-environment-map#wells>)

Technical documentation: Metadata record (<https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77>)

Updated: October 18, 2021

Published: March 20, 2014

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Map: Well records

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[Go Back to Map](#)

Well ID

Well ID Number: 7305297

Well Audit Number: Z243695

Well Tag Number: A213693

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

Well Location

Address of Well Location	231 GLENENG ST

Township	PROTON TOWNSHIP
Lot	
Concession	
County/District/Municipality	GREY
City/Town/Village	DUNDALK
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 547926.00 Northing: 4890744.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

Annular Space/Abandonment Sealing Record

Depth From	Depth To	Type of Sealant Used (Material and Type)	Volume Placed
135 ft	-12 ft	HOLEPLUG	

Method of Construction & Well Use

Method of Construction	Well Use
	Not Used

Status of Well

Abandoned-Other

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To	

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To	

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 6634

Results of Well Yield Testing

After test of well yield, water was	
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	
Duration of Pumping	
Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	

Disinfected?	
---------------------	--

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
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

--	--

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: Z243695

Date Well Completed: March 07, 2017

Date Well Record Received by MOE: February 13, 2018

Related

How to use a Ministry of the Environment map (<https://www.ontario.ca/page/how-use-ministry-environment-map#wells>)

Technical documentation: Metadata record (<https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77>)

Updated: October 18, 2021

Published: March 20, 2014

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Well Tag # A 213692

Measurements recorded in: Metric Imperial

Page of

Well Owner's Information

First Name, Last Name / Organization, E-mail Address, Mailing Address, Municipality, Province, Postal Code, Telephone No.

Well Location

Address of Well Location, Township, Lot, Concession, County/District/Municipality, City/Town/Village, Province, Postal Code, UTM Coordinates, Zone, Easting, Northing, Municipal Plan and Sublot Number, Other

Overburden and Bedrock Materials/Abandonment Sealing Record

Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, To. Includes handwritten entry: SEALING OFF 5 INCH WELL 35 FEET DEEP

Annular Space and Results of Well Yield Testing tables. Annular Space includes Depth Set at, Type of Sealant Used, Volume Placed. Results of Well Yield Testing includes Draw Down and Recovery data.

Method of Construction and Well Use checkboxes. Includes options like Cable Tool, Rotary, Boring, Air percussion, Diamond, Jetting, Driving, Digging, Public, Commercial, Domestic, Municipal, Test Hole, Cooling & Air Conditioning, etc.

Construction Record - Casing table with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth (m/ft) From, To, Status of Well.

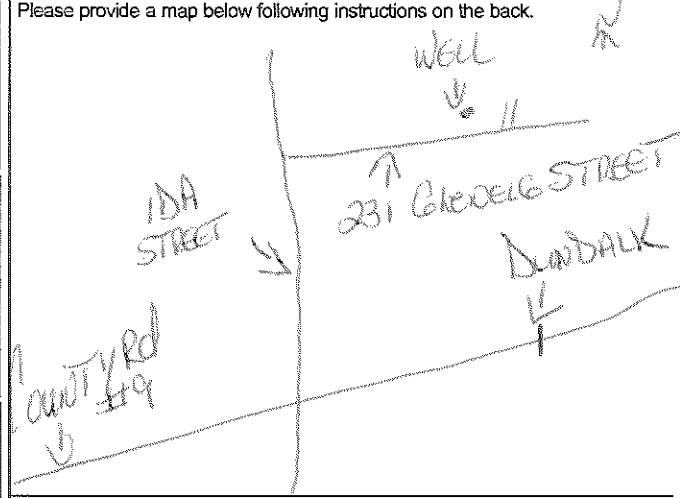
Construction Record - Screen table with columns: Outside Diameter, Material, Slot No., Depth (m/ft) From, To, Status of Well.

Water Details and Hole Diameter tables. Water Details includes Depth, Kind of Water (Fresh, Untested, Gas). Hole Diameter includes Depth (m/ft) From, To, Diameter (cm/in).

Well Contractor and Well Technician Information

Business Name of Well Contractor, Well Contractor's Licence No., Business Address, Municipality, Province, Postal Code, Business E-mail Address, Bus. Telephone No., Name of Well Technician, Well Technician's Licence No., Signature of Technician and/or Contractor, Date Submitted.

Map of Well Location



Comments:

Well owner's information package delivered, Date Package Delivered, Date Work Completed, Ministry Use Only, Audit No., Received, FEB 13 2018.



Well Tag No. (Place Sticker and/or Print Below) A264297

Measurements recorded in: Metric Imperial

2570970 ONTARIO INC.

Well Location: Address of Well Location (Street Number/Name) END OF BRADLEY ST, Township PTLLOT 221, Lot 23WTSR, Concession 23WTSR, County/District/Municipality Grey County, City/Town/Village Dundalk, Province Ontario, Postal Code, UTM Coordinates Zone Easting Northing, Municipal Plan and Sublot Number, Other

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form). Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From, Depth (m/ft) To. Includes handwritten entries for silt and sand.

Annular Space. Table with columns: Depth Set at (m/ft) From, Depth Set at (m/ft) To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³). Includes handwritten entries for silica sand and hydrated bentonite.

Method of Construction and Well Use. Includes checkboxes for Cable Tool, Rotary, Boring, etc., and Public, Commercial, etc. Includes handwritten entry 'Auger'.

Construction Record - Casing. Table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From, Depth (m/ft) To. Includes handwritten entries for PVC and Steel casing.

Construction Record - Screen. Table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From, Depth (m/ft) To. Includes handwritten entry for PVC screen.

Water Details and Hole Diameter. Includes fields for Water found at Depth, Kind of Water, and Hole Diameter (Depth and Diameter).

Well Contractor and Well Technician Information. Includes fields for Well Contractor's Licence No., Municipality, and Address. Includes handwritten entry 'LONDON SOIL TEST LTD.'.

Well owner's information package delivered. Includes fields for Well owner's information package delivered, Date Package Delivered, Date Work Completed, and Well Technician's Licence No. Includes handwritten entries for 'Watts Mike' and dates.

Results of Well Yield Testing. Table with columns: Time (min), Water Level (m/ft), Time (min), Water Level (m/ft). Includes handwritten entries for draw down and recovery data.

Map of Well Location

Please provide a map below following instructions on the back. SEE ATTACHED MAP

Comments: STEEL STICK OF CASING

Ministry Use Only. Includes fields for Audit No. (2305990), Received (APR 23 2019), and other tracking information.

A264297
Z305990

Legend
* MW

EMRB - RECEIVED
APR 23 2019

A264297

A264296

A264295

A264294

A264293

A264292

Wilson Crescent

Pine Ct

Highpoint St

Bradley St

Grey St N

Google Earth

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200 m





Well Tag No. (Place Sticker and/or Print Below)
A 254 292

Measurements recorded in: Metric Imperial

2570970 ONTARIO INC.

Address of Well Location (Street Number/Name)
Township
Lot
Concession
County/District/Municipality
City/Town/Village
Province
Postal Code
UTM Coordinates
Municipal Plan and Sublot Number
Other

Overburden and Bedrock Materials/Abandonment Sealing Record
Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft)

Annular Space
Table with columns: Depth Set at (m/ft) From To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Results of Well Yield Testing
Table with columns: Time (min), Water Level (m/ft), Recovery Time (min), Recovery Water Level (m/ft)

Method of Construction
Well Use
List of construction methods and well uses with checkboxes.

Construction Record - Casing
Table with columns: Inside Diameter (cm/in), Open Hole OR Material, Wall Thickness (cm/in), Depth (m/ft) From To, Status of Well

Construction Record - Screen
Table with columns: Outside Diameter (cm/in), Material, Slot No., Depth (m/ft) From To

Water Details
Table with columns: Water found at Depth (m/ft), Kind of Water, Hole Diameter

Well Contractor and Well Technician Information
LONDON SOIL TEST LTD.
712078 Southgate Sdrd. 71
Dundalk, ON N0C 1B0
519-455-5777 info@londonsoil.com

Map of Well Location
Please provide a map below following instructions on the back.
Comments: SEE ATTACHED MAP. STEEL STICK UP CASING

Well Technician's Licence No.
Signature of Technician and/or Contractor
Date Submitted

Well owner's information package delivered
Date Package Delivered
Date Work Completed
Ministry Use Only
Audit No. 2305986
APR 23 2019

A264292

Z305986

Legend™

MW

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APR 23 2019

A264297

A264296

A264295

A264294

A264293

A264292

Wilson Crescent

Pine Ct

Highport St

Bradley St

Grey St W

Google Earth

© 2018 Google
Image © 2019 DigitalGlobe



200 m

200 2305986



Well Tag No. (Place Sticker and/or Print Below) A264294

Measurements recorded in: Metric Imperial

2570970 ONTARIO INC.

Address of Well Location (Street Number/Name) END OF BRADLEY ST Township PELLOT 221 Lot 2 SWTSR Concession County/District/Municipality Grey County City/Town/Village DUNDALK Province Ontario Postal Code UTM Coordinates Zone Easting Northing NAD 83 17 548060 4891347 Municipal Plan and Sublot Number Other

Overburden and Bedrock Materials/Abandonment Sealing Record (see instructions on the back of this form) Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft) From To

Annular Space Table with columns: Depth Set at (m/ft) From To, Type of Sealant Used (Material and Type), Volume Placed (m³/ft³)

Results of Well Yield Testing Table with columns: Draw Down (Time, Water Level), Recovery (Time, Water Level)

Method of Construction Well Use

Construction Record - Casing Table with columns: Inside Diameter (cm/ft), Open Hole OR Material, Wall Thickness (cm/ft), Depth (m/ft) From To, Status of Well

Construction Record - Screen Table with columns: Outside Diameter (cm/ft), Material, Slot No., Depth (m/ft) From To

Water Details Hole Diameter Table with columns: Water found at Depth (m/ft), Kind of Water, Depth (m/ft) From To, Diameter (cm/ft)

Well Contractor and Well Technician Information LONDON SOIL TEST LTD. 712078 Southgate Sdrd. 71 Dundalk, ON N0C 1B0 519-455-5777 info@londonsoil.com

Map of Well Location Please provide a map below following instructions on the back. Comments: SEE ATTACHED MAP. Ministry Use Only Audit No. 2305989 APR 23 2019

A264294

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Wilson Crescent

Pine Ct

Highpoint St

Bradley St

Grey St N

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200 m





Well Tag No. (Place Sticker and/or Print Below)
A264296

Measurements recorded in: Metric Imperial

2570970 ONTARIO INC.

Address of Well Location (Street Number/Name)
Township
Lot
Concession
County/District/Municipality
City/Town/Village
Province
Postal Code
UTM Coordinates
Municipal Plan and Sublot Number
Other

Overburden and Bedrock Materials/Abandonment Sealing Record
Table with columns: General Colour, Most Common Material, Other Materials, General Description, Depth (m/ft)

Annular Space
Table with columns: Depth Set at (m/ft), Type of Sealant Used, Volume Placed

Results of Well Yield Testing
Table with columns: Draw Down, Recovery, Time, Water Level

Method of Construction
Well Use

Construction Record - Casing
Table with columns: Inside Diameter, Open Hole OR Material, Wall Thickness, Depth, Status of Well

Construction Record - Screen
Table with columns: Outside Diameter, Material, Slot No., Depth

Water Details
Hole Diameter
Table with columns: Water found at Depth, Kind of Water, Depth, Diameter

Well Contractor and Well Technician Information
LONDON SOIL TEST LTD.
712078 Southgate Sdrd. 71
Dundalk, ON N0C 1B0
519-455-5777 info@londonsoil.com

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

Well Technician's Licence No.
Signature of Technician and/or Contractor
Date Submitted

Well owner's information package delivered
Date Package Delivered
Date Work Completed
Ministry Use Only
Audit No. 2305988
APR 23 2019

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A264293

A264292

Wilson Crescent

Pine Ct

Highpoint St

Bradley St

Grey St N

Google Earth

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Image © 2019 DigitalGlobe



200 m



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

A264295

Measurements recorded in: Metric Imperial

2570970 ONTARIO INC.

Address of Well Location (Street Number/Name): END OF BRADLEY ST. Township: DUNDALK Lot: P1107221 Concession: 2 SWTSR

County/District/Municipality: Green County City/Town/Village: DUNDALK Province: Ontario Postal Code:

UTM Coordinates Zone: 83 Easting: 1751481574891359 Northing: 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	Silt	Some Sand	Soft, loose	0	5
Brown	Silt	Gravel & sand	Water bearing & compact	5	20

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
20 to 8	SILICA SAND	
8 to 0	HYDRATED BENTONITE	

Method of Construction

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 Auger

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
2"	PVC	3/16"	20	+3	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
2"	PVC		20	10

Water Details

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify	Hole Diameter	
		Depth (m/ft)	Diameter (cm/in)
7		0 to 20	8"

Well Contractor and Well Technician Information

LONDON SOIL TEST LTD.
712078 Southgate Sdrd. 71
Dundalk, ON N0C 1B0
519-455-5777 info@londonsoil.com

Well Contractor's Licence No.: 111910
Municipality:
Address:

Bus. Telephone No. (inc. area code): Name of Well Technician (Last Name, First Name): WATTS Mike

Well Technician's Licence No.: Signature of Technician and/or Contractor: Date Submitted: 20190415

Results of Well Yield Testing

After test of well yield, water was: <input type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify	Draw Down		Recovery	
	Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason: <u> </u>	Static Level	7'		
	1		1	
	Pump intake set at (m/ft)	2	2	
	Pumping rate (l/min / GPM)	3	3	
	Duration of pumping hrs + min	4	4	
	Final water level end of pumping (m/ft)	5	5	
	10	10		
If flowing give rate (l/min / GPM)	15	15		
20	20			
Recommended pump depth (m/ft)	25	25		
Recommended pump rate (l/min / GPM)	30	30		
Well production (l/min / GPM)	40	40		
50	50			
Disinfected? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	60	60		

Map of Well Location

Please provide a map below following instructions on the back.

SEE ATTACHED MAP.

Comments:

Well owner's information package delivered: Yes No

Date Package Delivered: 20190405
Date Work Completed:

Ministry Use Only

Audit No. 2305996
APR 23 2019
Received

A264295

Z305996

Legend

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A264297

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A264294

A264293

A264292

Wilson Crescent

Pine Ct

Highpoint St

Bradley St

Grey St N

Google Earth

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200 m



2019 2 205996



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

A264293

Measurements recorded in: Metric Imperial

2570970 ONTARIO INC.

Address of Well Location (Street Number/Name): END OF BRADLEY ST. Township: _____ Lot: PT LOT 227 Concession: 2 SWTSR

County/District/Municipality: Grey County City/Town/Village: DUNDALK Province: Ontario Postal Code: _____

UTM Coordinates Zone Easting Northing: NAD 83 17 547960 4891287 Municipal Plan and Sublot Number: _____ Other: 420709000505200

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
Dark Brown	silt	some sand	Loose Topsoil on surface	0	4
Brown/gray	Gravel	silt & sand	Perched water	4	10
Brown	silt	some Gravel, sand	Very Compact	10	20

Annular Space

Depth Set at (m/ft)	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
20 / 8	SILICA SAND	
8 / 0	HYDRATED Bentonite	

Results of Well Yield Testing

After test of well yield, water was:
 Clear and sand free
 Other, specify _____

If pumping discontinued, give reason: _____

Time (min)	Draw Down		Recovery	
	Water Level (m/ft)	Time (min)	Water Level (m/ft)	Time (min)
1	4.1			
2				
3				
4				
5				
10				
15				
20				
25				
30				
40				
50				
60				

Disinfected? Yes No

Method of Construction

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 AUGER.

Construction Record - Casing

Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft)		Status of Well
			From	To	
2"	PVC	3/16"	10	13	<input type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input checked="" type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify _____ <input type="checkbox"/> Other, specify _____

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft)	
			From	To
2"	PVC	.010	20	10

Water Details

Water found at Depth (m/ft)	Kind of Water: <input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas <input type="checkbox"/> Other, specify _____	Hole Diameter
		Depth (m/ft) From To Diameter (cm/in)
4 (m/ft)		0 20 8"

Well Contractor and Well Technician Information

LONDON SOIL TEST LTD.
 712078 Southgate Sdrd. 71
 Dundalk, ON N0C 1B0
 519-455-5777 info@londonsoil.com

Well Contractor's Licence No.: 711 910
 Municipality: _____
 Address: _____

Map of Well Location

Please provide a map below following instructions on the back.

Comments: SEE ATTACHED MAP.

Bus. Telephone No. (inc. area code): _____ Name of Well Technician (Last Name, First Name): WATSON Mike

Well Technician's Licence No.: 1 6 7 1 Signature of Technician and/or Contractor: _____ Date Submitted: 2019 04 15

Well owner's information package delivered: Yes No

Date Package Delivered: 2019 04 05
 Date Work Completed: 2019 04 05

Ministry Use Only
 Audit No. 2305987
 Received APR 23 2019

A264293
Z305987

Legend
MW.

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APR 23 2018



Google Earth

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200 m

0 200 400 600 800 1000

Address of Well Location (Street Number/Name) 159155 Hwy 10		Township MELANCTHON	Lot 223	Concession 1SRB
County/District/Municipality DUFFERIN		City/Town/Village	Province Ontario	Postal Code
UTM Coordinates Zone NAD 83	Easting 17548395	Northing 4893013	Municipal Plan and Sublot Number	Other

General Colour	Most Common Material	Other Materials	General Description	Depth (m/ft) From To
	TOPSOIL			0-1
BRN	CLAY	STONES		1-15
BRN	STONES	CLAY GRAVEL		15-64
	STONES	CLAY, GRAVEL		64-81
	LIMESTONE			81-102

Annular Space		
Depth Set at (m/ft) From To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0-60	Bentonite GROUT	15 M³

Method of Construction	Well Use
<input type="checkbox"/> Cable Tool <input checked="" type="checkbox"/> Rotary (Conventional) <input type="checkbox"/> Rotary (Reverse) <input type="checkbox"/> Boring <input checked="" type="checkbox"/> Air percussion <input type="checkbox"/> Other, specify	<input type="checkbox"/> Diamond <input type="checkbox"/> Jetting <input type="checkbox"/> Driving <input type="checkbox"/> Digging <input type="checkbox"/> Public <input checked="" type="checkbox"/> Domestic <input checked="" type="checkbox"/> Livestock <input type="checkbox"/> Irrigation <input type="checkbox"/> Industrial <input type="checkbox"/> Other, specify

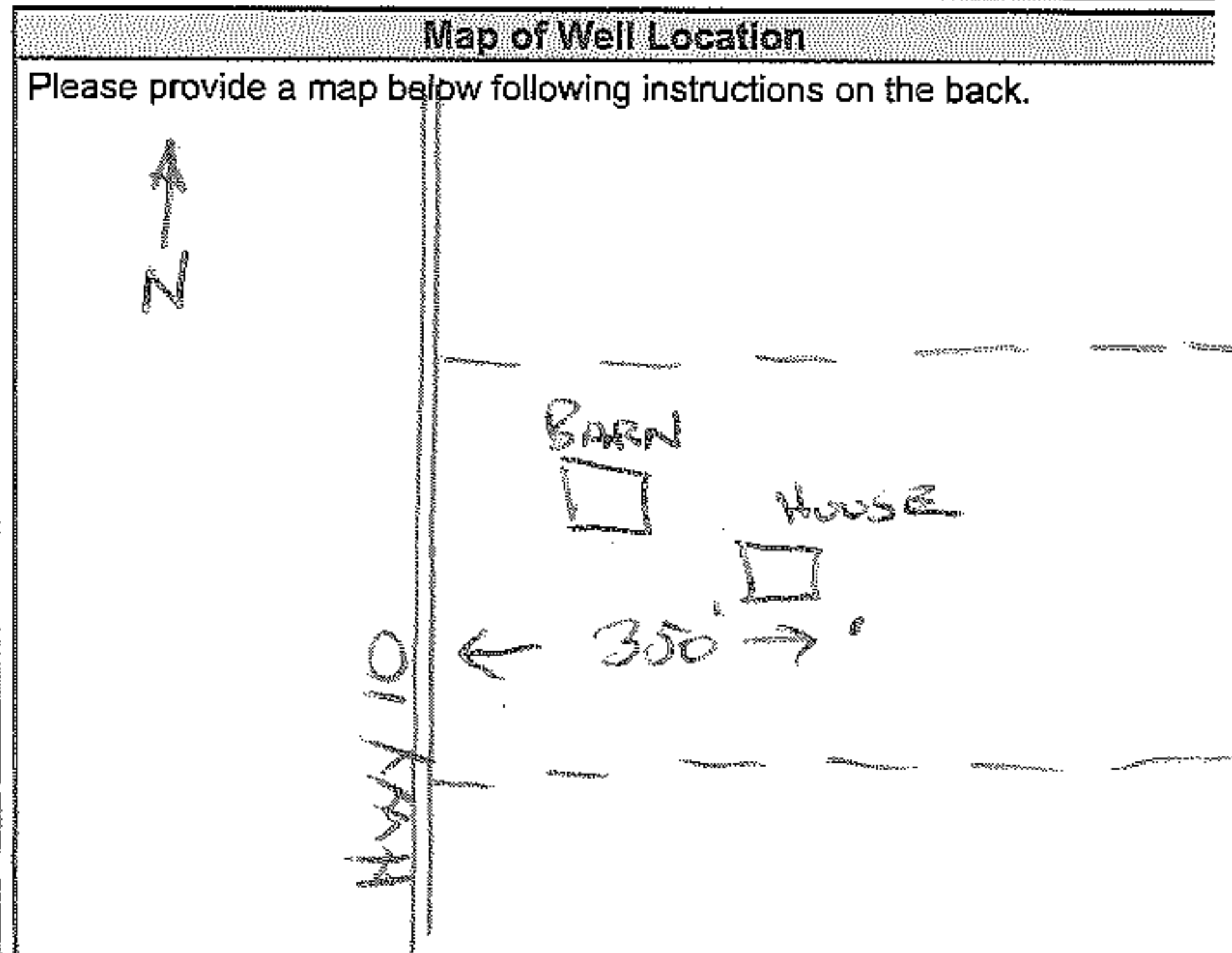
Construction Record - Casing			Status of Well	
Inside Diameter (cm/in)	Open Hole OR Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness (cm/in)	Depth (m/ft) From To	<input checked="" type="checkbox"/> Water Supply <input type="checkbox"/> Replacement Well <input type="checkbox"/> Test Hole <input type="checkbox"/> Recharge Well <input type="checkbox"/> Dewatering Well <input type="checkbox"/> Observation and/or Monitoring Hole <input type="checkbox"/> Alteration (Construction) <input type="checkbox"/> Abandoned, Insufficient Supply <input type="checkbox"/> Abandoned, Poor Water Quality <input type="checkbox"/> Abandoned, other, specify <input type="checkbox"/> Other, specify
6 1/4	Steel	1.88	13 - 84	
6"	OPEN HOLE		84 - 102	

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

Water Details		Hole Diameter	
Water found at Depth (m/ft)	Kind of Water: <input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas	Depth (m/ft) From To	Diameter (cm/in)
99	<input checked="" type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas		
	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas		
	<input type="checkbox"/> Fresh <input type="checkbox"/> Untested <input type="checkbox"/> Gas		

Well Contractor and Well Technician Information			
Business Name of Well Contractor NEUMANN WELL DRILLING LTD		Well Contractor's Licence No. 710115	
Business Address (Street Number/Name) 453022 GREY Rd Box 700		Municipality DUNDALK	
Province ONT	Postal Code M0C1B0	Business E-mail Address	
Bus. Telephone No. (inc. area code) 519 923 3203	Name of Well Technician (Last Name, First Name) GILLIES TOM		
Well Technician's Licence No. 19158	Signature of Technician and/or Contractor <i>Tom Gillies</i>		Date Submitted Y Y Y Y M M D D

Results of Well Yield Testing					
After test of well yield, water was:		Draw Down		Recovery	
<input checked="" type="checkbox"/> Clear and sand free <input type="checkbox"/> Other, specify		Time (min)	Water Level (m/ft)	Time (min)	Water Level (m/ft)
If pumping discontinued, give reason:		Static Level	8		9
Pump intake set at (m/ft)		1	9	1	8
Pumping rate (l/min / GPM) 15 GPM		2	9	2	8
Duration of pumping 2 hrs + min		3	9	3	8
Final water level end of pumping (m/ft) 9		4	9	4	8
If flowing give rate (l/min / GPM)		5	9	5	8
Recommended pump depth (m/ft) 45 FT		10	9	10	8
Recommended pump rate (l/min / GPM) 10-15 GPM		15		15	
Well production (l/min / GPM)		20		20	
Disinfected? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		25		25	
		30		30	
		40		40	
		50		50	
		60		60	



Comments: AIR LIFT 40 GPM.	
Well owner's information package delivered <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Date Package Delivered Y Y Y Y M M D D 2019 05 07
Date Work Completed Y Y Y Y M M D D 2019 05 07	
Ministry Use Only Audit No. 2306956 AUG 01 2019 Received	



(<https://www.ontario.ca/page/government-ontario>)

Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue (<https://data.ontario.ca/dataset/well-records>).

[Go Back to Map](#)

Well ID

Well ID Number: 7367321

Well Audit Number: C47994

Well Tag Number: A295208

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

Well Location

Address of Well Location		

Township	PROTON TOWNSHIP
Lot	
Concession	
County/District/Municipality	GREY
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 547875.00 Northing: 4890860.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

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	

Status of Well

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To	

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To	

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 7215

Results of Well Yield Testing

After test of well yield, water was	
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	
Duration of Pumping	
Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
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

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: C47994

Date Well Completed: May 29, 2020

Date Well Record Received by MOE: September 10, 2020

Related

How to use a Ministry of the Environment map (<https://www.ontario.ca/page/how-use-ministry-environment-map#wells>)

Technical documentation: Metadata record (<https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77>)

Updated: October 18, 2021

Published: March 20, 2014

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Notice of Collection of Personal Information

Personal information contained on this form is collected pursuant to sections 35-50 and 75(2) of the *Ontario Water Resources Act* and section 16.3 of the Wells Regulation. This information will be used for the purpose of maintaining a public record of wells in Ontario. This form and the information contained on the form will be stored in the Ministry's well record database and made publicly available. Questions about this collection should be directed to the Water Well Customer Service Representative at the Wells Help Desk, 125 Resources Road, Toronto Ontario M9P 3V6, at 1-888-396-9355 or wellshelpdesk@ontario.ca.

Fields marked with an asterisk (*) are mandatory.

Well Tag Number *
No Tag on Well

Type *

Construction Abandonment

Measurement recorded in: *

Metric Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name	First Name
[Redacted]	[Redacted]
Organization	Email Address
Southgate Meadows Inc.	[Redacted]

Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village
[Redacted]	[Redacted]	[Redacted]	[Redacted]
Country	Province	Postal Code	Telephone Number
Canada	Ontario	[Redacted]	[Redacted]

2. Well Location

Address of Well Location

Unit Number	Street Number *	Street Name *	Township
	231	Glennelg Street	Proton
Lot	Concession	County/District/Municipality	
224	Range 2	Grey County	
City/Town	Province	Postal Code	
Dundalk	Ontario	N0C 1B0	
UTM Coordinates	Zone *	Easting *	Northing *
NAD 83	17	547333	4891206
			Municipal Plan and Sublot Number
			Test UTM in Map

Other

3. Abandonment and Sealing

Well Depth [4.6](#) (m)

Provide information of well (e.g. construction date, original contractor). **Do not** enter private information

Original Owner

General Description	Depth From (m)	Depth To (m)

4. Annular Space

Depth From (m)	Depth To (m)	Type of Sealant Used (Material and Type)	Volume Placed (cubic metres)
0	4.6	Bentonite	0.01

5. Method of Construction

- Cable Tool Rotary (Conventional) Rotary (Reverse) Boring Air percussion Diamond
 Jetting Driving Digging Rotary (Air) Augering Direct Push
 Other (specify) _____

6. Well Use

- Public Industrial Cooling & Air Conditioning
 Domestic Commercial Not Used
 Livestock Municipal Monitoring
 Irrigation Test Hole Dewatering
 Other (specify) _____

7. Status of Well

- Water Supply Replacement Well Test Hole
 Recharge Well Dewatering Well Observation and/or Monitoring Hole
 Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality
 Abandoned, other (specify) customer request
 Other (specify) _____

8. Construction Record - Casing (use negative number(s) to indicate depth above ground surface)

Inside Diameter (cm)	Open Hole or Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (m)	Depth To (m)
5	Plastic		0	1.5

9. Construction Record - Screen

Outside Diameter (cm)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (m)	Depth To (m)
6.3	Plastic		1.5	4.6

10. Water Details

Water found at Depth (m) Gas Kind of water Fresh Untested Other

11. Hole Diameter

Depth From (m)	Depth To (m)	Diameter (cm)
0		

12. Results of Well Yield Testing

Pumping Discontinued

Explain _____

If flowing give rate

Flowing _____ (L/min)

Draw down

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)														

Recovery

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)													

After test of well yield, water was

Clear and sand free Other (specify)

Pump intake set at (m)	Pumping rate (L/min)	Duration of pumping hrs + min	Final water level end of pumping (m)	Disinfected? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
------------------------	----------------------	-------------------------------	--------------------------------------	---

Recommended pump depth (m)	Recommended pump rate (L/min)	Well production (L/min)
----------------------------	-------------------------------	-------------------------

13. Map of Well Location *

Map 1. Please Click the map area below to import an image file to use as the map. Make map area bigger



14. Information

Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) * 2021/03/17
---	-------------------------------------	--

Comments
MW1 on map

15. Well Contractor and Well Technician Information

Business Name of Well Contractor * SL Sonic Soil Limited	Well Contractor's License Number * 7732
---	--

Business Address

Unit Number	Street Number 441	Street Name * Carlingview Drive
City/Town/Village * Etobicoke	Province Ontario	Postal Code * M9W 5G8

Business Telephone Number 905-660-0501	Business Email Address sonic@sonicsoil.com
---	---

Last Name of Well Technician * Osborne	First Name of Well Technician * Tim	Well Technician's License Number * 4078
---	--	--

16. Declaration *

I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name Archibald	First Name Alan	Email Address sonic@sonicsoil.com
------------------------	--------------------	--------------------------------------

Signature Alan Archibald	Date Submitted (yyyy/mm/dd) 2021/04/14
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Audit Number UKPZ BS7B

Notice of Collection of Personal Information

Personal information contained on this form is collected pursuant to sections 35-50 and 75(2) of the *Ontario Water Resources Act* and section 16.3 of the Wells Regulation. This information will be used for the purpose of maintaining a public record of wells in Ontario. This form and the information contained on the form will be stored in the Ministry's well record database and made publicly available. Questions about this collection should be directed to the Water Well Customer Service Representative at the Wells Help Desk, 125 Resources Road, Toronto Ontario M9P 3V6, at 1-888-396-9355 or wellshelpdesk@ontario.ca.

Fields marked with an asterisk (*) are mandatory.

Well Tag Number *
No Tag on Well

Type *

Construction Abandonment

Measurement recorded in: *

Metric Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name	First Name
[Redacted]	[Redacted]
Organization	Email Address
Southgate Meadows Inc.	[Redacted]

Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village
[Redacted]	[Redacted]	[Redacted]	[Redacted]
Country	Province	Postal Code	Telephone Number
Canada	Ontario	[Redacted]	[Redacted]

2. Well Location

Address of Well Location

Unit Number	Street Number *	Street Name *	Township
	231	Glennelg Street	Proton
Lot	Concession	County/District/Municipality	
227	Range 2	Grey County	
City/Town	Province	Postal Code	
Dundalk	Ontario	N0C 1B0	
UTM Coordinates	Zone *	Easting *	Northing *
NAD 83	17	547746	4891026
			Municipal Plan and Sublot Number
			Test UTM in Map

Other

3. Abandonment and Sealing

Well Depth [4.9](#) (m)

Provide information of well (e.g. construction date, original contractor). **Do not** enter private information

Original Owner

General Description	Depth From (m)	Depth To (m)

4. Annular Space

Depth From (m)	Depth To (m)	Type of Sealant Used (Material and Type)	Volume Placed (cubic metres)
0	4.9	Bentonite	0.01

5. Method of Construction

- Cable Tool Rotary (Conventional) Rotary (Reverse) Boring Air percussion Diamond
 Jetting Driving Digging Rotary (Air) Augering Direct Push
 Other (specify) _____

6. Well Use

- Public Industrial Cooling & Air Conditioning
 Domestic Commercial Not Used
 Livestock Municipal Monitoring
 Irrigation Test Hole Dewatering
 Other (specify) _____

7. Status of Well

- Water Supply Replacement Well Test Hole
 Recharge Well Dewatering Well Observation and/or Monitoring Hole
 Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality
 Abandoned, other (specify) customer request
 Other (specify) _____

8. Construction Record - Casing (use negative number(s) to indicate depth above ground surface)

Inside Diameter (cm)	Open Hole or Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (m)	Depth To (m)
5	Plastic		0	1.8

9. Construction Record - Screen

Outside Diameter (cm)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (m)	Depth To (m)
6.3	Plastic		1.8	4.9

10. Water Details

Water found at Depth (m) Gas Kind of water Fresh Untested Other

11. Hole Diameter

Depth From (m)	Depth To (m)	Diameter (cm)
0		

12. Results of Well Yield Testing

Pumping Discontinued

Explain _____

If flowing give rate

Flowing _____ (L/min)

Draw down

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)														

Recovery

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)													

After test of well yield, water was

Clear and sand free Other (specify)

Pump intake set at (m)	Pumping rate (L/min)	Duration of pumping hrs + min	Final water level end of pumping (m)	Disinfected? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
------------------------	----------------------	-------------------------------	--------------------------------------	---

Recommended pump depth (m)	Recommended pump rate (L/min)	Well production (L/min)
----------------------------	-------------------------------	-------------------------

13. Map of Well Location *

Map 1. Please Click the map area below to import an image file to use as the map. Make map area bigger



14. Information

Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) * 2021/03/17
---	-------------------------------------	--

Comments
[MW2 on map](#)

15. Well Contractor and Well Technician Information

Business Name of Well Contractor * SL Sonic Soil Limited	Well Contractor's License Number * 7732
---	--

Business Address

Unit Number	Street Number 441	Street Name * Carlingview Drive
City/Town/Village * Etobicoke	Province Ontario	Postal Code * M9W 5G8

Business Telephone Number 905-660-0501	Business Email Address sonic@sonicsoil.com
---	---

Last Name of Well Technician * Osborne	First Name of Well Technician * Tim	Well Technician's License Number * 4078
---	--	--

16. Declaration *

I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name Archibald	First Name Alan	Email Address sonic@sonicsoil.com
------------------------	--------------------	--------------------------------------

Signature Alan Archibald	Date Submitted (yyyy/mm/dd) 2021/04/14
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Digitally signed by Alan Archibald
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Fields marked with an asterisk (*) are mandatory.

Well Tag Number *
No Tag on Well

Type *

Construction Abandonment

Measurement recorded in: *

Metric Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name	First Name
[Redacted]	[Redacted]
Organization	Email Address
Southgate Meadows Inc.	[Redacted]

Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village
[Redacted]	[Redacted]	[Redacted]	[Redacted]
Country	Province	Postal Code	Telephone Number
Canada	Ontario	[Redacted]	[Redacted]

2. Well Location

Address of Well Location

Unit Number	Street Number *	Street Name *	Township
	231	Glennelg Street	Proton
Lot	Concession	County/District/Municipality	
228	Range 2	Grey County	
City/Town	Province	Postal Code	
Dundalk	Ontario	N0C 1B0	
UTM Coordinates	Zone *	Easting *	Northing *
NAD 83	17	548027	4890884
			Municipal Plan and Sublot Number
			Test UTM in Map

Other

3. Abandonment and Sealing

Well Depth [5.2](#) (m)

Provide information of well (e.g. construction date, original contractor). **Do not** enter private information

Original Owner

General Description	Depth From (m)	Depth To (m)

4. Annular Space

Depth From (m)	Depth To (m)	Type of Sealant Used (Material and Type)	Volume Placed (cubic metres)
0	5.2	Bentonite	0.0104

5. Method of Construction

- Cable Tool Rotary (Conventional) Rotary (Reverse) Boring Air percussion Diamond
 Jetting Driving Digging Rotary (Air) Augering Direct Push
 Other (specify) _____

6. Well Use

- Public Industrial Cooling & Air Conditioning
 Domestic Commercial Not Used
 Livestock Municipal Monitoring
 Irrigation Test Hole Dewatering
 Other (specify) _____

7. Status of Well

- Water Supply Replacement Well Test Hole
 Recharge Well Dewatering Well Observation and/or Monitoring Hole
 Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality
 Abandoned, other (specify) customer request
 Other (specify) _____

8. Construction Record - Casing (use negative number(s) to indicate depth above ground surface)

Inside Diameter (cm)	Open Hole or Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (m)	Depth To (m)
5	Plastic		0	2.1

9. Construction Record - Screen

Outside Diameter (cm)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (m)	Depth To (m)
6.3	Plastic		2.1	5.2

10. Water Details

Water found at Depth (m) Gas Kind of water Fresh Untested Other

11. Hole Diameter

Depth From (m)	Depth To (m)	Diameter (cm)
0		

12. Results of Well Yield Testing

Pumping Discontinued

Explain _____

If flowing give rate

Flowing _____ (L/min)

Draw down

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)														

Recovery

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)													

After test of well yield, water was

Clear and sand free Other (specify)

Pump intake set at (m)	Pumping rate (L/min)	Duration of pumping hrs + min	Final water level end of pumping (m)	Disinfected? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
------------------------	----------------------	-------------------------------	--------------------------------------	---

Recommended pump depth (m)	Recommended pump rate (L/min)	Well production (L/min)
----------------------------	-------------------------------	-------------------------

13. Map of Well Location *

Map 1. Please Click the map area below to import an image file to use as the map. Make map area bigger



14. Information

Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
		2021/03/17

Comments
[MW3 on map](#)

15. Well Contractor and Well Technician Information

Business Name of Well Contractor *	Well Contractor's License Number *
SL Sonic Soil Limited	7732

Business Address

Unit Number	Street Number	Street Name *
	441	Carlingview Drive

City/Town/Village *	Province	Postal Code *
Etobicoke	Ontario	M9W 5G8

Business Telephone Number	Business Email Address
905-660-0501	sonic@sonicsoil.com

Last Name of Well Technician *	First Name of Well Technician *	Well Technician's License Number *
Osborne	Tim	4078

16. Declaration *

I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name	First Name	Email Address
Archibald	Alan	sonic@sonicsoil.com

Signature	Date Submitted (yyyy/mm/dd)
Alan Archibald	2021/04/14

Digitally signed by Alan Archibald
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Fields marked with an asterisk (*) are mandatory.

Well Tag Number *
No Tag on Well

Type *

Construction Abandonment

Measurement recorded in: *

Metric Imperial

1. Well Owner's Information

Last Name and First Name, or Organization is mandatory. *

Last Name	First Name
[Redacted]	[Redacted]
Organization	Email Address
Southgate Meadows Inc.	[Redacted]

Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village
[Redacted]	[Redacted]	[Redacted]	[Redacted]
Country	Province	Postal Code	Telephone Number
Canada	Ontario	[Redacted]	[Redacted]

2. Well Location

Address of Well Location

Unit Number	Street Number *	Street Name *	Township
	231	Glennelg Street	Proton
Lot	Concession	County/District/Municipality	
225	Range 2	Grey County	
City/Town	Province	Postal Code	
Dundalk	Ontario	N0C 1B0	
UTM Coordinates	Zone *	Easting *	Northing *
NAD 83	17	547965	4890795
			Municipal Plan and Sublot Number
			Test UTM in Map

Other

3. Abandonment and Sealing

Well Depth [5.2](#) (m)

Provide information of well (e.g. construction date, original contractor). **Do not** enter private information

Original Owner

General Description	Depth From (m)	Depth To (m)
	0	5.2

4. Annular Space

Depth From (m)	Depth To (m)	Type of Sealant Used (Material and Type)	Volume Placed (cubic metres)
0	5.2	Bentonite	0.0104

5. Method of Construction

- Cable Tool Rotary (Conventional) Rotary (Reverse) Boring Air percussion Diamond
 Jetting Driving Digging Rotary (Air) Augering Direct Push
 Other (specify) _____

6. Well Use

- Public Industrial Cooling & Air Conditioning
 Domestic Commercial Not Used
 Livestock Municipal Monitoring
 Irrigation Test Hole Dewatering
 Other (specify) _____

7. Status of Well

- Water Supply Replacement Well Test Hole
 Recharge Well Dewatering Well Observation and/or Monitoring Hole
 Alteration (Construction) Abandoned, Insufficient Supply Abandoned, Poor Water Quality
 Abandoned, other (specify) customer request
 Other (specify) _____

8. Construction Record - Casing (use negative number(s) to indicate depth above ground surface)

Inside Diameter (cm)	Open Hole or Material (Galvanized, Fibreglass, Concrete, Plastic, Steel)	Wall Thickness	Depth From (m)	Depth To (m)
5	Plastic		0	5.2

9. Construction Record - Screen

Outside Diameter (cm)	Material (Plastic, Galvanized, Steel)	Slot Number	Depth From (m)	Depth To (m)
6.3	Plastic		0	5.2

10. Water Details

Water found at Depth (m) Gas Kind of water Fresh Untested Other

11. Hole Diameter

Depth From (m)	Depth To (m)	Diameter (cm)
0		

12. Results of Well Yield Testing

Pumping Discontinued

Explain _____

If flowing give rate

Flowing _____ (L/min)

Draw down

Time (min)	Static Level	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)														

Recovery

Time (min)	1	2	3	4	5	10	15	20	25	30	40	50	60
Water Level (m)													

After test of well yield, water was

Clear and sand free Other (specify)

Pump intake set at (m)	Pumping rate (L/min)	Duration of pumping hrs + min	Final water level end of pumping (m)	Disinfected? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
------------------------	----------------------	-------------------------------	--------------------------------------	---

Recommended pump depth (m)	Recommended pump rate (L/min)	Well production (L/min)
----------------------------	-------------------------------	-------------------------

13. Map of Well Location *

Map 1. Please Click the map area below to import an image file to use as the map. Make map area bigger



14. Information

Well owner's information package delivered <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
		2021/03/17

Comments
[MW4 on map](#)

15. Well Contractor and Well Technician Information

Business Name of Well Contractor *	Well Contractor's License Number *
SL Sonic Soil Limited	7732

Business Address

Unit Number	Street Number	Street Name *
	441	Carlingview Drive
City/Town/Village *	Province	Postal Code *
Etobicoke	Ontario	M9W 5G8

Business Telephone Number	Business Email Address
905-660-0501	sonic@sonicsoil.com

Last Name of Well Technician *	First Name of Well Technician *	Well Technician's License Number *
Osborne	Tim	4078

16. Declaration *

I hereby confirm that I am the person who constructed the well and I hereby confirm that the information on the form is correct and accurate.

Last Name	First Name	Email Address
Archibald	Alan	sonic@sonicsoil.com

Signature	Date Submitted (yyyy/mm/dd)
Alan Archibald <small>Digitally signed by Alan Archibald DN: c=CA, o=SL Sonic Soil Limited, CN=Alan Archibald, E=sonic@sonicsoil.com Reason: I am the author of this document Location: P: Date: 2021.04.14 14:41:44 Foxit PhantomPDF Version: 9.4.1</small>	2021/04/14

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Audit Number
[6CW4 L4DH](#)



Map: Well records

This map allows you to search and view well record information from reported wells in Ontario.

Full dataset is available in the Open Data catalogue (<https://data.ontario.ca/dataset/well-records>).

[Go Back to Map](#)

Well ID

Well ID Number: 7389879

Well Audit Number: C49299

Well Tag Number: A294344

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

Well Location

Address of Well Location		

Township	PROTON TOWNSHIP
Lot	
Concession	
County/District/Municipality	GREY
City/Town/Village	
Province	ON
Postal Code	n/a
UTM Coordinates	NAD83 — Zone 17 Easting: 547332.00 Northing: 4891207.00
Municipal Plan and Sublot Number	
Other	

Overburden and Bedrock Materials Interval

General Colour	Most Common Material	Other Materials	General Description	Depth From	Depth To

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	

Status of Well

Construction Record - Casing

Inside Diameter	Open Hole or material	Depth From	Depth To	

Construction Record - Screen

Outside Diameter	Material	Depth From	Depth To	

Well Contractor and Well Technician Information

Well Contractor's Licence Number: 6988

Results of Well Yield Testing

After test of well yield, water was	
If pumping discontinued, give reason	
Pump intake set at	
Pumping Rate	
Duration of Pumping	
Final water level	
If flowing give rate	
Recommended pump depth	
Recommended pump rate	
Well Production	
Disinfected?	

Draw Down & Recovery

Draw Down Time(min)	Draw Down Water level	Recovery Time(min)	Recovery Water level
SWL			
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

Hole Diameter

Depth From	Depth To	Diameter

Audit Number: C49299

Date Well Completed: February 24, 2021

Date Well Record Received by MOE: June 21, 2021

Related

How to use a Ministry of the Environment map (<https://www.ontario.ca/page/how-use-ministry-environment-map#wells>)

Technical documentation: Metadata record (<https://data.ontario.ca/dataset/well-records/resource/3031344e-e3f2-48d5-888c-c1deadfd2f77>)

Updated: October 18, 2021

Published: March 20, 2014

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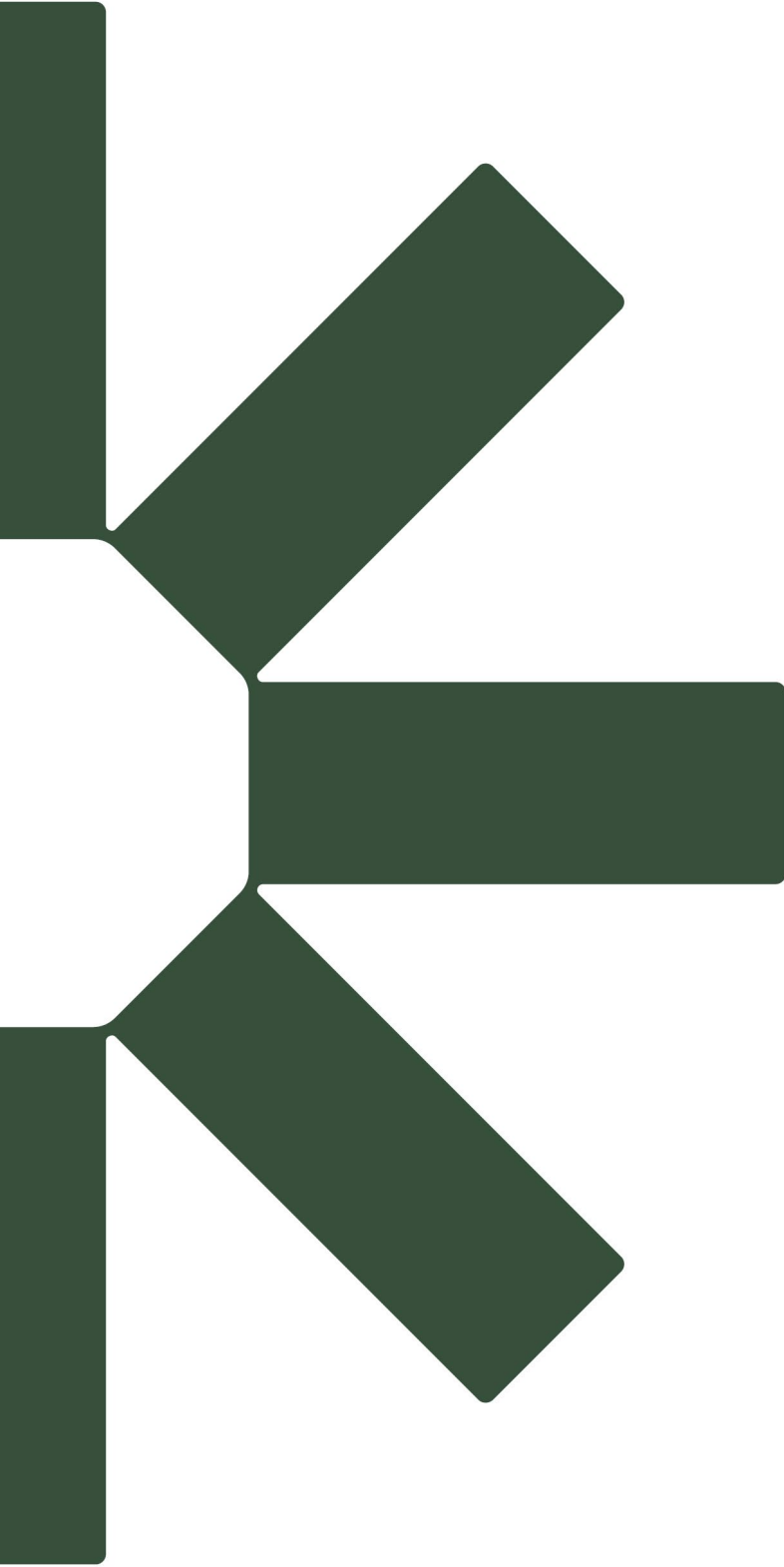
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Making Sustainability Happen