Preliminary Hydrogeological Assessment

Glenelg Phase 3

Dundalk Village Two Inc.

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Revision Record

Revision No.	Revision Date	Revision Description
1	September 9, 2022	Preliminary Report submitted to Client for Development 1st Submission
2	September 12, 2022	Preliminary Report was revised to address comments

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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 "Site"). The Site includes two residential properties (772350 and 772288 Hwy 10), as well as one currently undeveloped property located on Lot 225, Concession 1 (Figure 1). The Site is bounded by Highway 10 to the northeast, Grey Country CP rail trail to the southwest, and is found approximately 600 m northwest of Main St East and approximately 600 m northeast of Ida Street.

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, this report provides details of the entire Site. 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, and a park. The overall development is expected to have complete municipal servicing, and paved access / site roadways. A copy of the proposed development plan is provided in Appendix A.

The objective of the Hydrogeological Assessment is to characterize the hydrogeological Site-specific conditions, identify any hydrogeological constraints to development and potential impacts of development on natural heritage features, and 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.

While this report will form the basis for a comprehensive Hydrogeological Assessment Report, it currently does not include a detailed characterization of the existing hydrogeological conditions or a complete analysis of potential impacts. Appropriate field investigations are still being undertaken in support of the hydrogeology assessment. When studies are complete, the data will be interpreted and presented in the comprehensive report.

The purpose of this Preliminary Hydrogeological Assessment Report is to:

- Present hydrogeological study approach, preliminary existing condition findings, and review components of the proposed development plan.

The purpose of the forthcoming detailed Hydrogeological Assessment Report, to be prepared following the completion of field investigations and data analysis/interpretation, is to:

- Characterize existing conditions
- Identify any hydrogeological constraints to development; and,
- Provide hydrogeological guidance to implementing the residential housing development.

1.1 Scope of Work

SLR completed this hydrogeologic investigation to collect Site-specific information such as depth to groundwater elevations, groundwater flow, soil stratigraphy, and hydrogeological conditions to help inform the engineering design.

The scope of work consisted of:

- Review of previous studies for information concerning geologic conditions in the Site;
- Drilling and installation of monitoring wells at select locations on Site;
- Installation of mini-piezometers at select locations within identified wetlands;
- In-situ hydraulic conductivity testing;
- Water level monitoring; and,
- Compilation of water users by searching the MECP WWR database for active groundwater wells located on the Site, or within a 500 metre (m) radius from the Site boundary.

As indicated above, some of the field investigations are still being undertaken in support of the Hydrogeological Assessment.

2.0 Site Description

2.1 Site Location and 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 (herein referred to as the "Site"). The Site 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 Site.

2.2 Proposed Development

Although this Preliminary report discusses hydrogeological conditions across the entire Site, 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 residential subdivision measures approximately 33 ha in size. The footprint includes 369 single detached lots, 18 semi-detached lots, and 72 townhouse units. It also includes a 1.39 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.

2.3 Topography and Drainage

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

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 Error! Reference source not found.. The location of the monitoring wells are depicted in Figure 3, 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. The mini-piezometers were installed to assess groundwater-surface water interactions within the wetland.

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 3.

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
MW22-302	522.6	523.6	518.1-516.5	Silty SAND to Sandy Silt TILL
MW22-303	518.4	519.2	513.8-512.3	Silty SAND to Sandy SILT TILL
MW22-304	523.5	524.4	519.4-517.9	Silty SAND TILL to SAND and SILT
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 to Sandy Silt TILL
MW22-306-D	522.8	523.7	516.8-513.8	Silty SAND TILL
MW22-307-S	528.7	528.0	523.4-521.9	Silty SAND TILL
MW22-307-D	527.9	528.8	519.4-517.9	Silty SAND 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	Silty SAND TILL
MW22-312	520.6	521.7	517.6-516.0	Gravelly SAND
MW22-313-S	520.0	520.9	515.6-514.1	SAND to Silty SAND TILL
MW22-313-D	520.0	521.1	510.9-509.3	Silty SAND TILL
MW22-314	517.3	518.3	512.7-511.2	Gravelly SAND
MW22-315	518.8	519.7	508.1-506.6	Silty SAND TILL
MW22-316	520.1	521.0	512.5-510.9	Silty SAND TILL

Table 3-2: Mini-Piezometer Details

Monitor	Ground Surface Elevation (masl)	Top of Pipe Elevation (masl)	Screen Interval (masl)
MP1-S	516.9	517.8	516.2-515.9
MP1-D	516.9	518.2	514.9-514.6
MP2-S	519.8	521.1	518.9-518.6
MP2-D	519.8	521.3	518.0-517.7
MP3-S	517.1	517.6	516.4-516.1
MP3-D	517.8	517.0	515.3-515.0
MP4-S	523.6	524.2	523.0-522.6
MP4-D	523.6	524.4	521.9-521.6
MP5-S	522.8	524.0	522.1-521.7
MP5-D	522.7	523.9	521.0-520.7
MP6-S	520.9	522.1	520.2-519.9
MP6-D	520.9	522.1	519.2-518.9

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 In-Situ Hydraulic Conductivity

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.

3.4 Water Level Monitoring

Groundwater levels were manually collected in each accessible monitor using a Solinst water level meter to collect baseline data prior to Site development. Water levels were collected on a quarterly basis commencing on May 13, 2022, with the most recent event occurring on July 13, 2022. 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 Site, select monitoring wells and mini-piezometers were instrumented with automated Diver dataloggers to obtain continuous groundwater level readings at 12-minute intervals. A barologger was also deployed coincident with the Diver 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 on-Site.

4.0 Results

4.1 Geologic Setting

4.1.1 Physiography

The Site 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.

4.1.2 Surficial Geology

Based on a review of the Ontario Geological Survey mapping (OGS, 2010), the surficial geology of the Site 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 Site is mapped to consist of glaciofluvial sandy river deposits, with minor organic deposits located within wetland areas.

Surficial geology of the Site was also characterized by advancing boreholes at select locations across the property. Borehole logs are provided in Appendix B. Geological cross-sections of the Site, as indicated in Figure 5, are presented in Figure 6 and Figure 7. Based on the results of the drilling program, a relatively thin (1–2 m thick) silty sand unit was located at surface overlain by topsoil. A till unit was found underlying the silt to silty sand unit. The till unit is composed of sandy silt to silty sand material and was located at approximately 515.8 (MW22-314) masl to 525.6 (MW22-307) 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 to 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.

4.1.3 Bedrock Geology

Boreholes advanced across the Site 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 Grand River Conservation Authority 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 Hydrogeologic Setting

4.2.1 Site-Specific 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 July 2022. Monitors MP1 S/D, MP4 S/D, MP5 S/D, MW22-302, MW22304, MW22306 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 measured within the monitoring wells and mini-piezometers are provided in Table C-1 to C-2, Appendix C, and hydrographs are provided in Appendix C. Logger data for MW22-313 S/D was unavailable between June 3 and June 14 as the logger was temporarily removed from the well. Logger data is also periodically unavailable between June 27 and July 4 at all monitoring wells due to hydraulic conductivity testing.

Groundwater elevations across the Site fluctuated between May and July 2022. During the May 2022 (spring) monitoring event, water levels in the monitoring wells ranged between 0.16 mbgs (MW22-301) and 4.87 (MW22-313D). In comparison, water levels during the July 2022 (summer) event ranged between 1.03 mbgs (MW22-312) and 3.96 mbgs (MW22-315). Groundwater levels generally remained in the upper 4 m.

As shown in Appendix C, groundwater elevations showed some fluctuation between May and July of 2022. Groundwater elevations were highest in early June and began to decline into drier summer month of July. MW22-313D showed a slower response to development and hydraulic testing reaching periodic static groundwater elevations between 518.5 masl and 519.0 masl.

The interpreted groundwater contours for spring 2022, representing a generally high water table position, are presented in Figure 8. Water levels during spring conditions is 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 primarily in southwesterly direction along the west portion of the Site and a southeasterly direction along the east portion of the Site. There is a watershed drainage divide that runs through the centre of the Site in a north-south direction separating the two directions of groundwater flow.

The horizontal component of groundwater flow travels in the surficial sand, silty sand, sand and gravel, and weathered upper till. Vertical hydraulic gradients were not assessed at this stage of investigation as further data collection is required. In addition, an investigation of groundwater-surface water interactions within the wetlands will be assessed as part of the detailed Hydrogeological Assessment Report.

4.2.2 In-Situ Hydraulic Conductivity

In-situ hydraulic conductivity tests were completed at six groundwater monitoring wells at the Site. The results of the hydraulic conductivity tests are provided in Error! Reference source not found., and the AQTESOLV analysis are provided in Appendix D.

Table 4-1: Hydraulic Conductivity

Monitor ID	Hydraulic Conductivity (m/s)	Screened Strata
MW22-306S	1.4×10^{-8}	Silty SAND to 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}	SAND 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 Dundalk Phase 2 development area which is situated immediately south of Dundalk Phase 3.

4.2.3 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 Site. The location of the wells are shown in Figure 9, and a summary is provided in Appendix E. Copies of the well records are provided in Appendix E.

Forty-nine (49) MECP wells were identified within 500 m of the property. Twenty-five (25) of those wells were for water supply purposes, thirteen (13) 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 upper 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 9). 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.

4.2.4 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 River Source Protection Plan and the Grand River Source Protection Region, and the Approved Source Protection Plans for these areas have identified the eastern and southeastern portions of the Site are within either a WHPA-C or WHPA-D, representing a capture zone time frame of between 2 to 25 years (**Figure 10**).

The majority of the wetlands are located within a SGRA with a vulnerability rating between 2 and 6 (**Figure 11**) the most vulnerable wetland being the one located on the west side of the Site near MP1.

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-wide 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. The Site-wide water balance is to be completed by Crozier & Associates Consulting Engineers ('Crozier') and provided under separate cover.

5.0 Impact Assessment for Potential Receptors

5.1 Shallow Groundwater Features

Limited groundwater data has been collected to date, with additional monitoring planned over the next year. Based on the preliminary data, groundwater elevations across the Site are relatively shallow (generally less than 4 m) and are anticipated to fluctuate on a seasonal basis. Water levels generally follow ground surface elevations. During the May 2022 monitoring event, the water level is hosted by the surficial sand, silty sand, and sand and gravel layer, and drops into the underlying till unit in the drier period. 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.

To prevent leakage of groundwater into basements, it is anticipated that import fill is required to keep the basements above the high water table. As a precaution, each basement should be surrounded by a foundation drain, which is considered normal practice within Township of Southgate. Typically, these are set to a minimum of 0.3 m above the measured high water table, assuming water levels could rise at some point in the future. The imported fill should be of the same hydraulic conductivity, or greater, than the native soil to prevent "wicking" up the water table to a higher elevation.

Groundwater monitoring is still in progress at the Site. It is our opinion that water levels in spring would generally represent the highest groundwater conditions, however, a full year of monitoring is required to confirm the full range of water levels across the Site. It is recommended that the groundwater level monitoring program continue at a quarterly frequency during pre-construction and construction activities.

5.2 Potable Wells

The Village of Dundalk relies on groundwater supply from wells screened within the dolostone bedrock that extends under the study site. The well capture zones have been documented by the Lake Erie Region Source Protection Committee and extend under the eastern portion of the proposed Glenelg subdivision in 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 Site boundary, and D3 and D5 to the southeast approximately 1020 m and 1225 m, respectively (**Figure 9**). However, given the thickness of the aquitard soils at this Site, and the fact that there will be no 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 Site. 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 Site 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 Site, two that drain towards the northwest (within the SRW), located at the north and south ends of the Site, and one that drains offsite towards the south (GRW) at the eastern portion of the Site within a wetland. There are also unevaluated wetlands on the Site. The wetlands will be evaluated as part of the EIS to be submitted under separate cover. In addition, an assessment of groundwater-surface water interactions within these natural heritage features will be completed once additional data is available. In the event that groundwater-dependent natural heritage features are identified on the property, the Site-wide water balance is to be maintained by carefully implementing mitigation measures such that these features are not affected by development.

6.0 Conclusion

The purpose of the preliminary Hydrogeological Assessment was to identify any hydrogeologic constraints to development. Based on the above results of the investigation and discussion, the following preliminary conclusions are presented, subject to confirmation through ongoing monitoring and supplementary analyses:

- The Site is underlain by surficial sand to silty sand deposits up to 2 m thick. Underneath the surficial aquifer deposits is a sandy silt to silty sand till. The upper unweathered portion of the till unit has an estimated average hydraulic conductivity of 5.7×10^{-8} m/s.
- The Site lies along a watershed drainage divide that runs through the centre of the Site in a north-south direction.
- Groundwater is interpreted to flow primarily in a southwesterly direction along the western portion of the Site and a southeasterly direction along the eastern portion of the Site.
- It is recognized that the Site is located within a WHPA and SGRA.
- Municipal well D4 is located approximately 460 m southeast of the Site. In addition, municipal wells D3 and D5 are located approximately 1020 m and 1225 m, respectively, southeast of the Site. There are no anticipated hydrogeological impacts due to the proximal distance of the municipal wells to the proposed development 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.
- A Site-wide water balance will be completed by Crozier to inform any potential mitigation needed to balance post-development recharge with pre-development recharge.

At this stage, based on the information and data received and analyzed to date it would appear the proposed development is feasible from a hydrogeologic perspective subject to the completion of ongoing monitoring and the completion of a future detailed Hydrogeological Assessment Report.

7.0 Statement of Limitations

The Hydrogeological Assessment has been prepared and the work referred to in this report has been undertaken by SLR Consulting (Canada) Ltd. (SLR) for Dundalk Village Two Inc. hereafter referred to as the "Client". It is intended for the sole and exclusive use of the Client. The report has been prepared in accordance with the Scope of Work and agreement between SLR and the Client. Other than by the Client and as set out herein, copying or distribution of this report or use of or reliance on the information contained herein, in whole or in part, is not permitted unless payment for the work has been made in full and express written permission has been obtained from SLR.

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Opinions and recommendations contained in this report are based on conditions that existed at the time the services were performed and are intended only for the client, purposes, locations, time frames and project parameters as outlined in the Scope or Work and agreement between SLR and the Client. The data reported, findings, observations and conclusions expressed are limited by the Scope of Work. SLR is not responsible for the impacts of any changes in environmental standards, practices, or regulations subsequent to performance of services. SLR does not warranty the accuracy of information provided by third party sources.

8.0 Closure

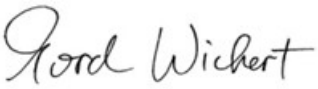
We trust that this report satisfies your requirements at this time.

Sincerely,

SLR Consulting (Canada) Ltd.

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

Amanda Malatesta, M.Sc., P.Geo.
Hydrogeologist



Gord Wichert, Ph.D., R.P.Bio., P.Biol.
Technical Director – Aquatic Ecology

Distribution: 1 electronic copy – Dundalk Village Two Inc.
1 electronic copy – SLR Consulting (Canada) Ltd.
1 electronic copy – Crozier & Associates Consulting Engineers
1 electronic copy – MHBC Planning

9.0 References

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Figures

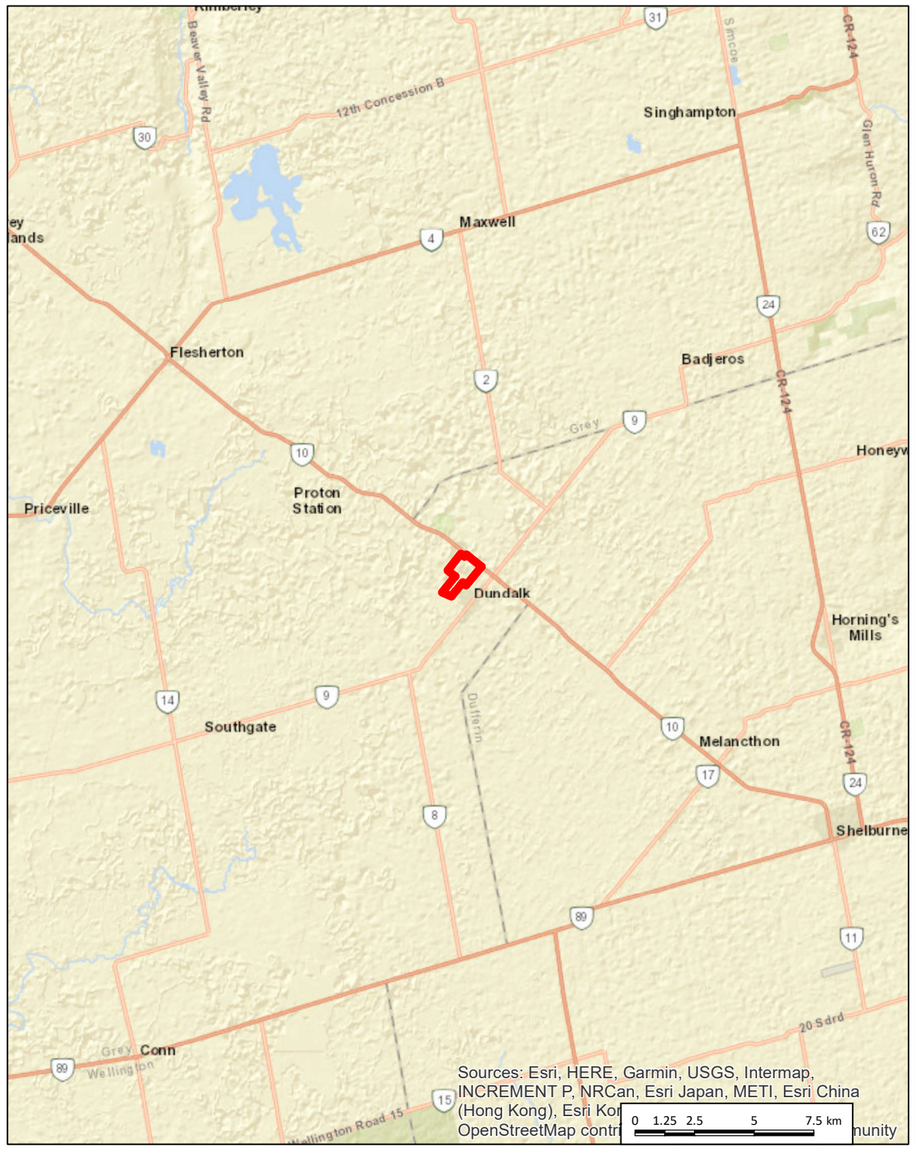
Preliminary Hydrogeological Assessment

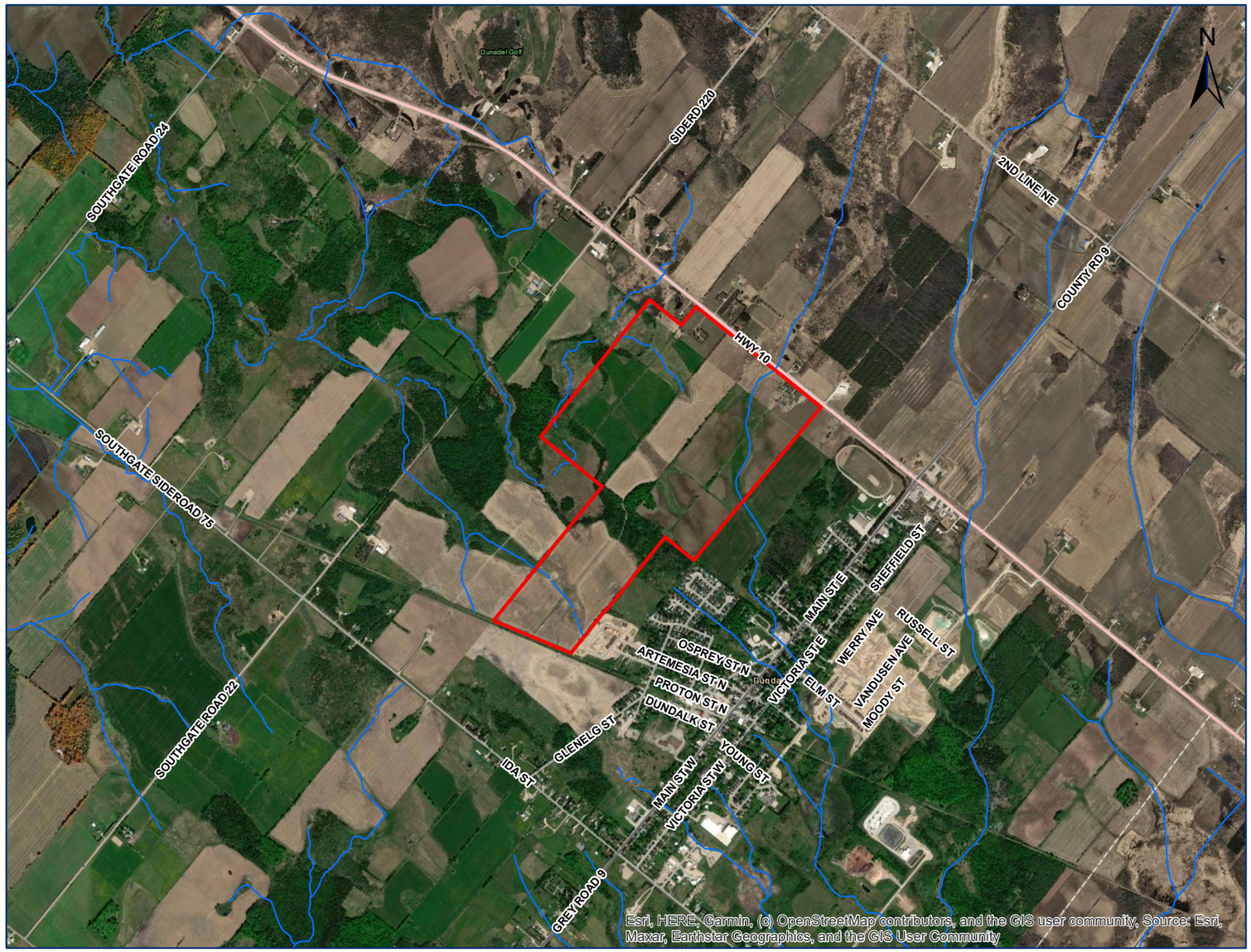
Glenelg Phase 3

Dundalk Village Two Inc.

SLR Project No. 209.30125.00003

September 12, 2022





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

LEGEND
SITE BOUNDARY

0 250 500 1,000 1,500 m

Scale 1:25,000
PAGE SIZE 11 x 17
NAD 1983 UTM Zone 17N

DUNDALK VILLAGE TWO INC.
GLENELG PHASE 3

PRELIMINARY HYDROGEOLOGICAL ASSESSMENT

SITE LOCATION

DRAFT

SLR

FIGURE NO:
1

DATE: July 4, 2022
PROJECT NO: 209.30125.00003

546812 547312 547812 548312 548812

4892487 4891987 4891487 4890987

Melancthon Wetland Complex #1 (MN1)

HWY 10

MAIN ST E

N

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

LEGEND

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

DRAFT

NOTES:
SITE BOUNDARY; SCHAEFFER DZALDOV BENNETT LTD.; 2022
BASEDATA:
ONTARIO MINISTRY OF NATURAL RESOURCES, LAND INFORMATION ONTARIO (LIO)
CONTOURS:
SWOOP 2015

0 50 100 200 300 m

Scale 1:7,500
PAGE SIZE 11 x 17
NAD 1983 UTM Zone 17N

DUNDALK VILLAGE TWO INC.
GLENELG PHASE 3

PRELIMINARY HYDROGEOLOGICAL ASSESSMENT

SITE TOPOGRAPHY

SLR

FIGURE NO:
2

DATE: Sept 6, 2022

PROJECT NO: 209.30125.00003

546812 547312 547812 548312 548812

4892487 4891987 4891487 4890987

N

MW22-301
MP2S
MP2D
HWY 10
MW22-302
MW22-306D
MW22-306S
MW22-305
MP4D
MP4S
MW22-307S
MW22-307D
MP5D
MP5S
MW22-303
MP1D
MP1S
MW22-304
MW22-308D
MW22-308S
MP6S
MP6D
MW22-311
MW22-310
MP3S
MP3D
MW22-313S
MW22-313D
MW22-309D
MW22-309S
MW22-312
MW22-314
MW22-315
MAIN ST E
BH6
MW20-102S
MW20-105
MW22-316
MW20-101
MW20-102D
BH4
BH7
BH15
MW20-104

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

LEGEND

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

DRAFT

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

DUNDALK VILLAGE TWO INC.
GLENELG PHASE 3

PRELIMINARY HYDROGEOLOGICAL ASSESSMENT

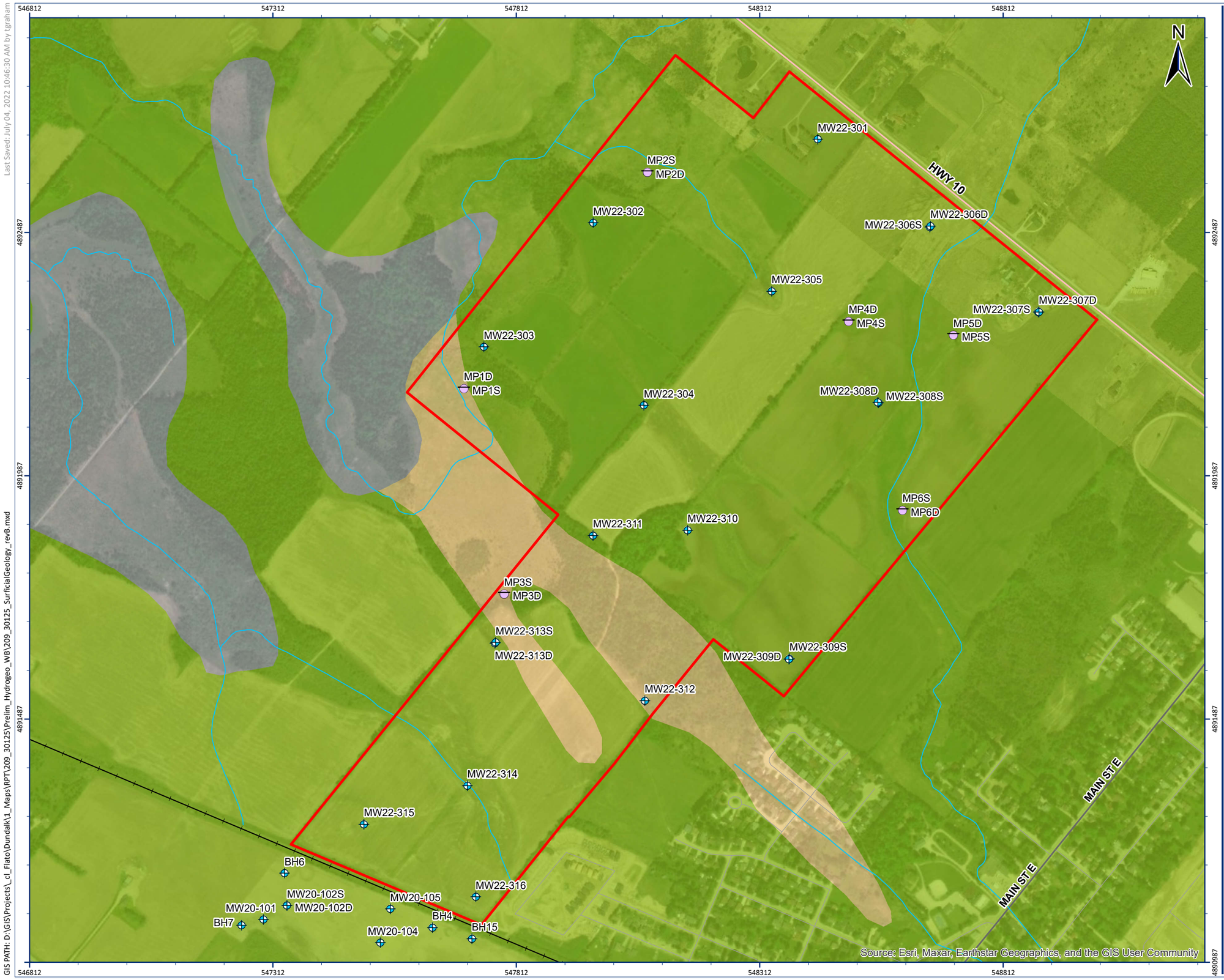
SITE PLAN

SLR

FIGURE NO: **3**

DATE: Sept 6, 2022

PROJECT NO: 209.30125.00003



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GIS PATH: D:\GIS\Projects_cl_Flato\Dundalk\1_Maps\RPT\209_30125\Prelim_Hydrogeo_WB\209_30125_SurficialGeology_revB.mxd

LEGEND

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

DRAFT

NOTES:

SITE BOUNDARY; SCHAEFFER DZALDOV BENNETT LTD.; 2022

BASEDATA:
ONTARIO MINISTRY OF NATURAL RESOURCES, LAND INFORMATION ONTARIO (LIO)

SURFICIAL GEOLOGY OF SOUTHERN ONTARIO:
ONTARIO GEOLOGICAL SURVEY

0 50 100 200 300 m

Scale 1:7,500
PAGE SIZE 11 x 17
NAD 1983 UTM Zone 17N

DUNDALK VILLAGE TWO INC.
GLENELG PHASE 3

PRELIMINARY HYDROGEOLOGICAL ASSESSMENT

SURFICIAL GEOLOGY

SLR

FIGURE NO:
4

DATE: Sept 6, 2022

PROJECT NO: 209.30125.00003

Last Saved: September 09, 2022 1:30:57 PM by tgraham


546812
547312
547812
548312
548812
4892487
4891987
4891487
4890987
N
Saugeen River Watershed
Upper Grand River Watershed
HWY 10
MAIN ST E
A
A'
B
B'
7167449
1700350
1700351
1700352
1701454
2515188
2515004
2515005
2512639
2505795
2503216
2506029
2509109
MW22-301
MP2S
MP2D
MW22-302
MW22-306S
MW22-306D
MW22-305
MP4D
MP4S
MW22-307S
MW22-307D
MP5D
MP5S
MW22-303
MP1D
MP1S
MW22-304
MW22-308D
MW22-308S
MP6S
MP6D
MW22-310
MW22-311
MP3D
MP3S
MW22-313D
MW22-313S
MW22-309D
MW22-309S
MW22-312
7331881
7331884
7331883
7331885
7331886
7331882
MW22-314
MW22-315
7389879
7385248
7285242
BH6
MW20-102S
MW20-102D
MW20-101
BH7
MW20-105
MW22-316
BH4
MW20-104
BH15
7385249
2515624
2500900
7237016
2502801
2500882
2506475
Source: Esri, Maxar, Earthstar Geographics, and the GIS User Community

LEGEND

- SITE BOUNDARY
- MONITORING WELL
- MINI-PIEZOMETER

MECP WELL LOCATION (WWIS, 2022)

- LIVESTOCK
- MUNICIPAL
- MONITORING
- DOMESTIC
- UNCLASSIFIED
- PERMANENT WATERCOURSE
- DRAINAGE DIVIDE
- CROSS SECTION

DRAFT

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

DUNDALK VILLAGE TWO INC.
GLENELG PHASE 3

PRELIMINARY HYDROGEOLOGICAL ASSESSMENT

CROSS-SECTION LOCATIONS

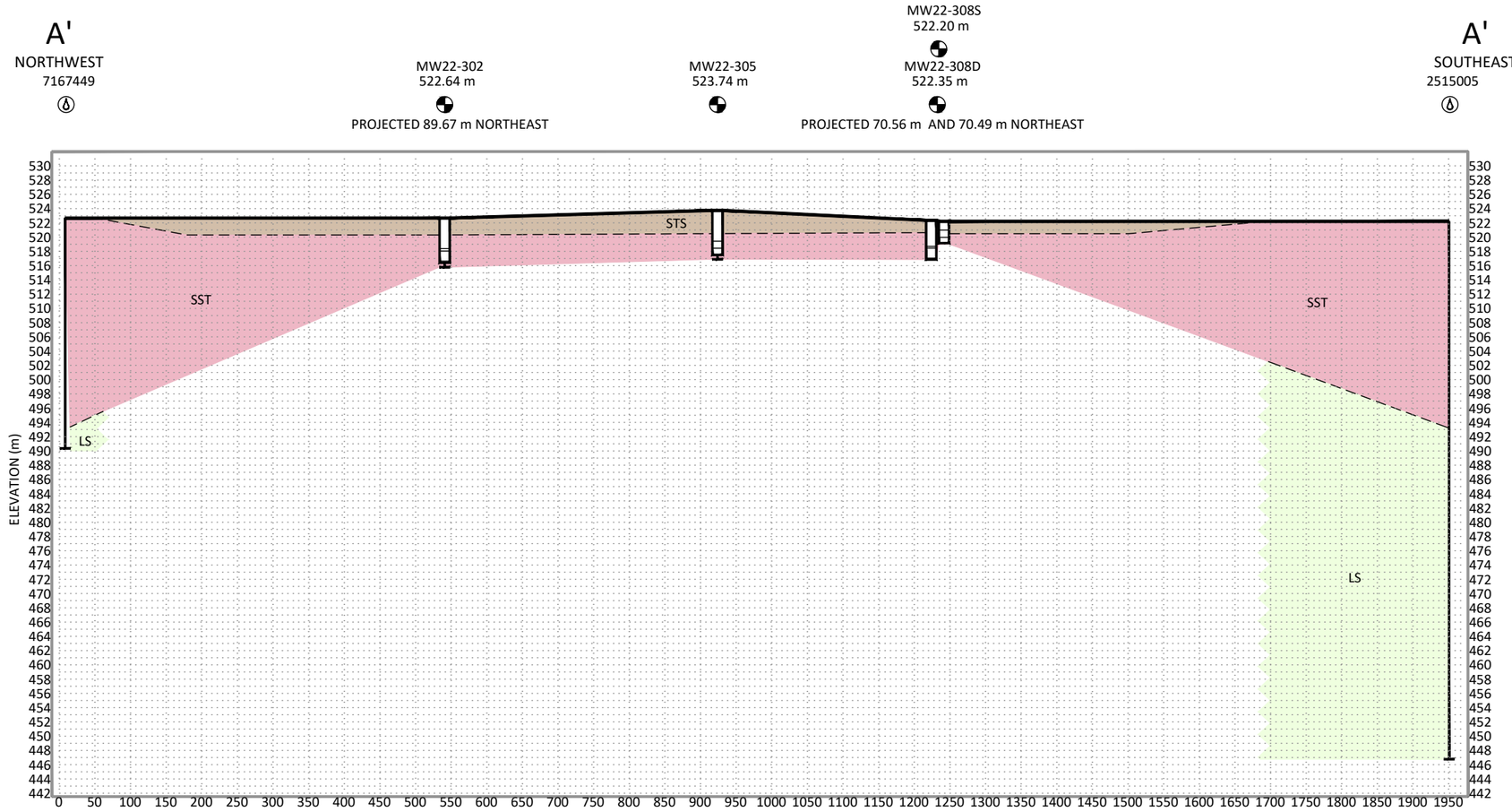
SLR

FIGURE NO: 5

DATE: September 9, 2022

PROJECT NO: 209.30125.00003

GIS PATH: D:\GIS\Projects_cl_Flato\Dundalk\1_Maps\RPT\209_30125\Prelim_Hydrogeo_WB\209_30125_CrossSections_revA.mxd



LEGEND:

- BOREHOLE COMPLETED AS A MONITORING WELL
- MECP WELL ID
- STS — SILTY SAND
- SST — SILTY SAND TO SANDY SILT TILL
- LS — LIMESTONE
- WELL
- SCREENED INTERVAL
- BOREHOLE
- END OF HOLE

0 5 10 20 30 40 m
VERTICAL SCALE 1:750
0 50 100 200 300 400 m
HORIZONTAL SCALE 1:7,500
WHEN PLOTTED CORRECTLY ON A 11 x 17 PAGE LAYOUT
NAD 1983 UTM Zone 17 T

DUNDALK VILLAGE TWO INC.
GLENELG PHASE 3

PRELIMINARY HYDROGEOLOGICAL ASSESSMENT

GEOLOGICAL CROSS SECTION A-A'

DRAFT

SLR

FIGURE NO:
6

DATE: September 9, 2022

PROJECT NO: 209.30125.00003

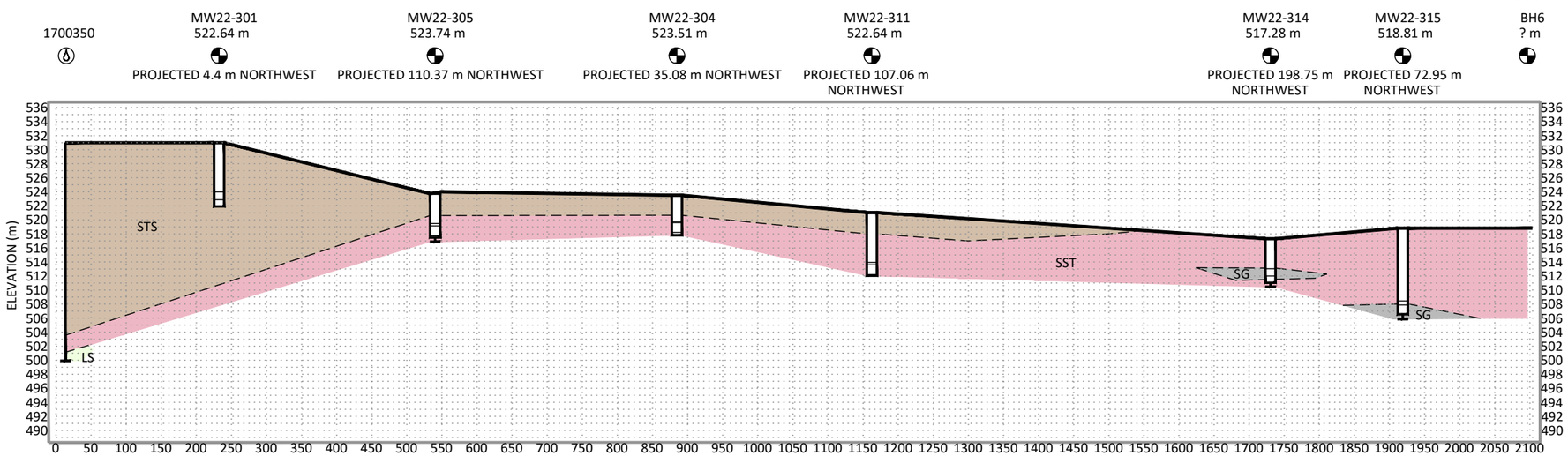
Cadfile name: S_209-30125-00003-A3.dwg

B

NORTH

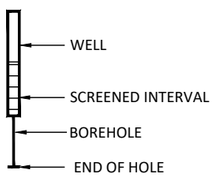
B'

SOUTH



LEGEND:

- BOREHOLE COMPLETED AS A MONITORING WELL
- WATER WATER
- STS — SILTY SAND
- SST — SILTY SAND TO SANDY SILT TILL
- LS — LIMESTONE
- SG — SAND AND GRAVEL



0 5 10 20 30 40 m

VERTICAL SCALE 1:750

0 50 100 200 300 400 m

HORIZONTAL SCALE 1:7,500

WHEN PLOTTED CORRECTLY ON A 11 x 17 PAGE LAYOUT

NAD 1983 UTM Zone 17 T

DUNDALK VILLAGE TWO INC.
GLENELG PHASE 3

PRELIMINARY HYDROGEOLOGICAL ASSESSMENT

GEOLOGICAL CROSS SECTION B-B'

DRAFT

SLR

FIGURE NO: **7**

DATE: September 9, 2022

PROJECT NO: 209.30125.00003

Cadfile name: S_209-30125-00003-A3.dwg

546812 547312 547812 548312 548812

4892487 4891987 4891487 4890987

N

MW22-301
530.8

MW22-302
521.0

MW22-303
517.6

MW22-304
522.8

MW22-305
523.3

MW22-306S
522.4

MW22-306D
522.5

MW22-307S
526.6

MW22-307D
526.7

MW22-308S
521.5

MW22-308D
521.6

MW22-309D
520.7

MW22-309S
520.7

MW22-310
521.9

MW22-311
519.1

MW22-312
520.4

MW22-313S
519.7

MW22-314
516.7

MW22-315
515.8

MW22-316
518.7

530 528 526 524 522 520 518 516

HWY 10

Saugeen River Watershed

Upper Grand River Watershed

MAIN ST E

MAIN ST E

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

LEGEND

- SITE BOUNDARY
- MONITORING WELL
- INFERRED GROUNDWATER ELEVATION CONTOUR
- INFERRED GROUNDWATER FLOW DIRECTION
- 519.1 GROUNDWATER ELEVATION (MAY 13, 2022)
- PERMANENT WATERCOURSE
- DRAINAGE DIVIDE

DRAFT

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

DUNDALK VILLAGE TWO INC.
GLENELG PHASE 3

PRELIMINARY HYDROGEOLOGICAL ASSESSMENT

INTERPRETED GROUNDWATER FLOW DIRECTION - MAY 2022

SLR

FIGURE NO:
8

DATE: August 31, 2022

PROJECT NO: 209.30125.00003

546547 547047 547547 548047 548547 549047 549547 550047

4893360 4892860 4892360 4891860 4891360 4890860 4890360

HWY 10

COUNTY RD 9

MAIN ST E

MAIN ST W

2503215 1703380 7339038 1701035 7167449 1700350 1700351 1700352 1701454 2515188

2515004 2515005 2512639 2505795 2503216 2509109 2506029

7331881 7331884 7331883 7331885 7331886 7331882

7389879 7385248 7285242 2506475 7385249 2515624 2500900 7237016 2502801 2500882 7166939 2516415 2500897 7155347 7367321 7385250 7041281 2500876 7385251 7305297 2500888 7305319 7285238

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

7237016 2502801 2500900 2500882 2516415 7166939 2500897 7155361 7155347 7116620 7041281 2500876 7049155 7385250 7367321 7385251 7305297 2500888 7305319

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

N

LEGEND

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

MECP WELL LOCATION (WWIS, 2022)

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

DRAFT

NOTES:

SITE BOUNDARY; SCHAEFFER DZALDOV BENNETT LTD.; 2022

BASEDATA:

ONTARIO MINISTRY OF NATURAL RESOURCES, LAND INFORMATION ONTARIO (LIO)

0 100 200 400 600 m

Scale 1:12,000

PAGE SIZE 11 x 17

NAD 1983 UTM Zone 17N

DUNDALK VILLAGE TWO INC.
GLENELG PHASE 3

PRELIMINARY HYDROGEOLOGICAL ASSESSMENT

MECP WELL LOCATIONS

SLR

FIGURE NO: **9**

DATE: Sept 6, 2022

PROJECT NO: 209.30125.00003

545605 546605 547605 548605 549605

4893016 4892016 4891016 4890016

HWY 10

HWY 10

Grand River Conservation Authority

COUNTY RD 9

Saugeen Valley Conservation Authority

MAIN ST E

HWY 10

MAIN ST W

N

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

DRAFT

NOTES:

SITE BOUNDARY; SCHAEFFER DZALDOV BENNETT LTD.; 2022

BASEDATA:

ONTARIO MINISTRY OF NATURAL RESOURCES, LAND INFORMATION ONTARIO (LIO)

0 100 200 400 600 m

Scale 1:15,000

PAGE SIZE 11 x 17

NAD 1983 UTM Zone 17N

DUNDALK VILLAGE TWO INC.
GLENELG PHASE 3

PRELIMINARY HYDROGEOLOGICAL ASSESSMENT

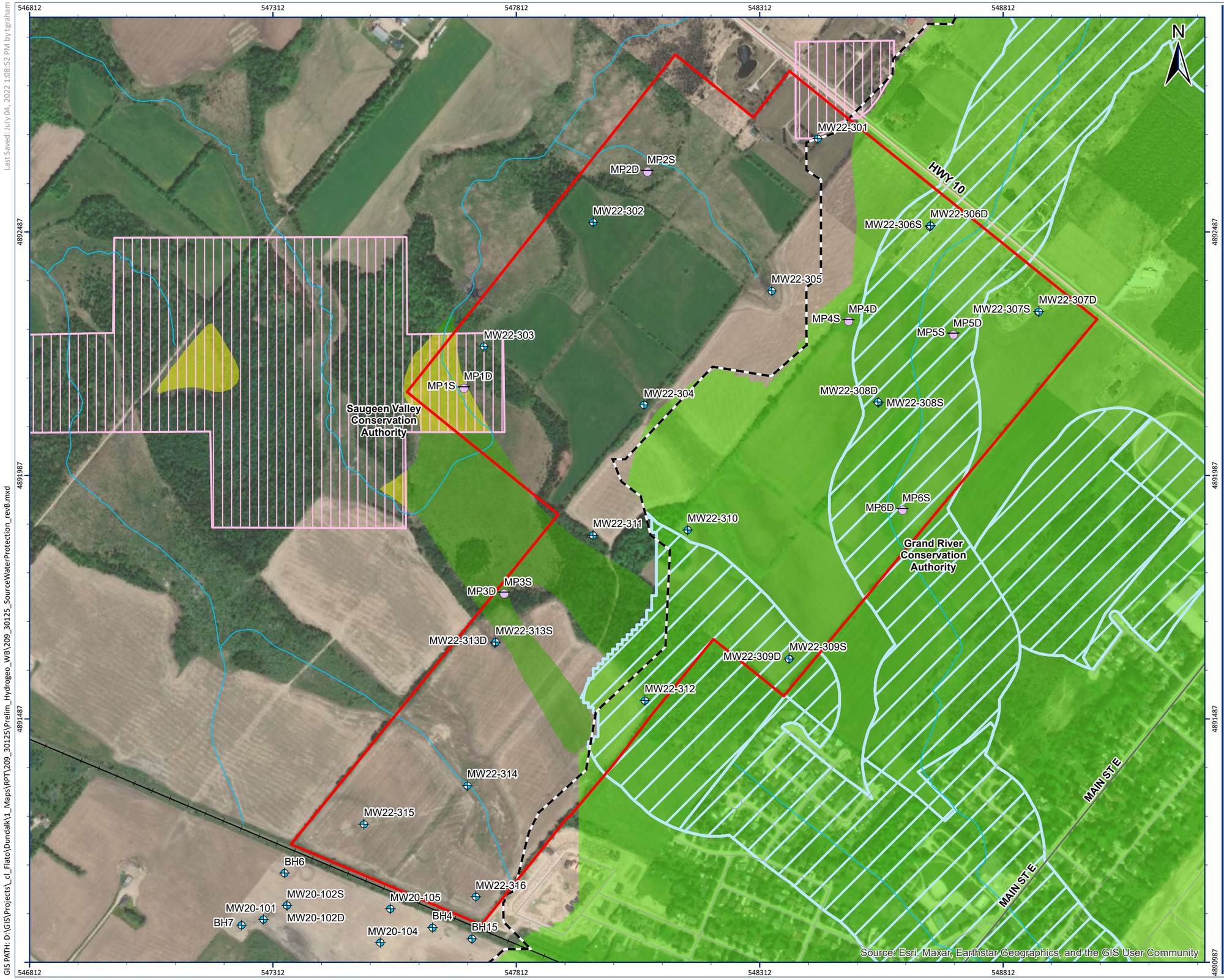
WELLHEAD PROTECTION AREA

SLR

FIGURE NO:
10

DATE: Sept 6, 2022

PROJECT NO: 209.30125.00003



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GIS PATH: D:\GIS\Projects_cl_Flato\Dundalk\1_Maps\RPT\209_30125\Prelim_Hydrogeo_WB\209_30125_SourceWaterProtection_revB.mxd

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

DRAFT

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

DUNDALK VILLAGE TWO INC.
GLENELG PHASE 3

PRELIMINARY HYDROGEOLOGICAL ASSESSMENT

SOURCE WATER PROTECTION

SLR

FIGURE NO:
11

DATE: Sept 6, 2022

PROJECT NO: 209.30125.00003

Appendix A Development Plan

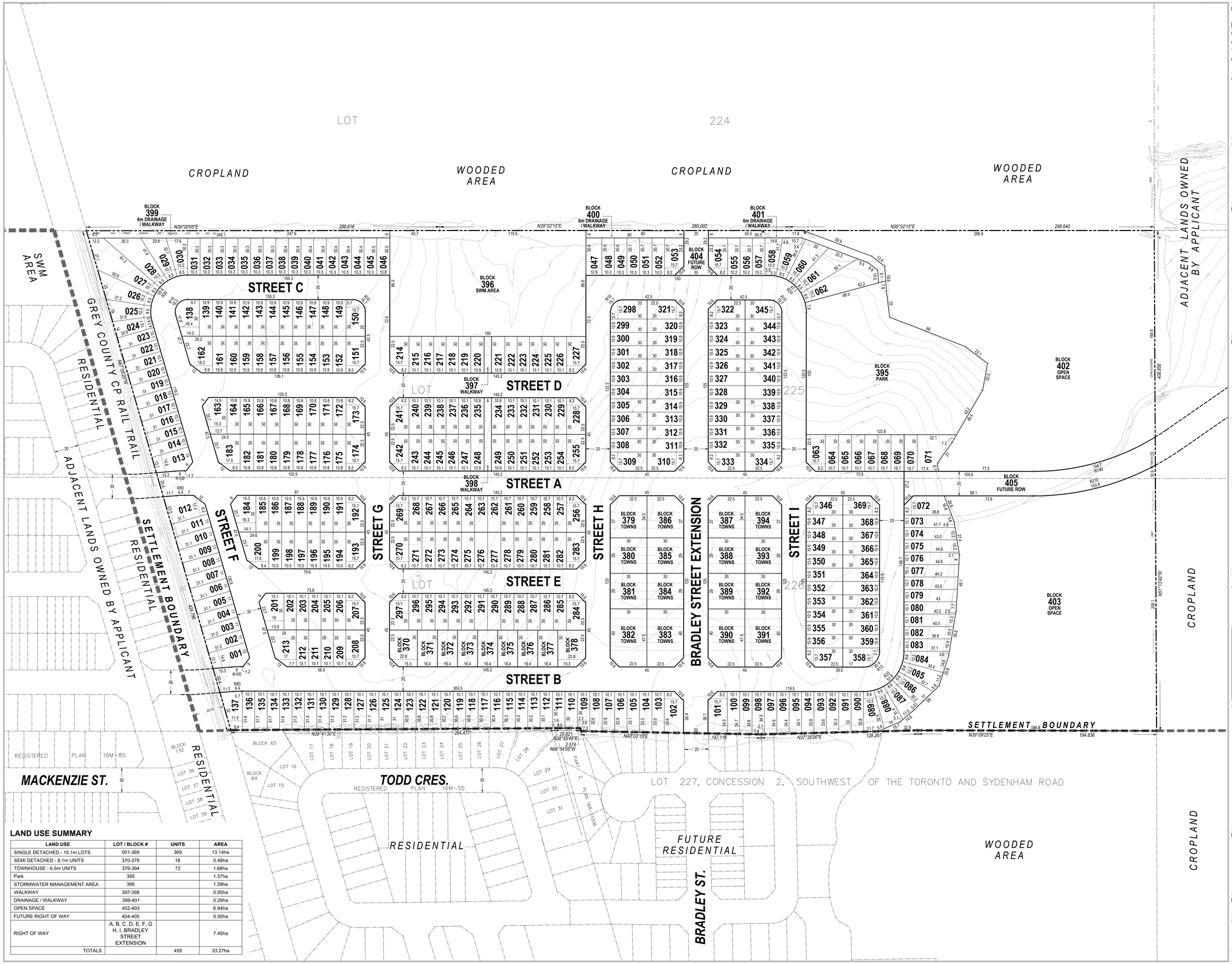
Preliminary Hydrogeological Assessment

Glenelg Phase 3

Dundalk Village Two Inc.

SLR Project No. 209.30125.00003

September 12, 2022



LAND USE SUMMARY

LAND USE	LOT / BLOCK #	UNITS	AREA
SINGLE DETACHED - 10.1m LOTS	001-369	369	13.14ha
SEMI DETACHED - 8.1m UNITS	370-378	18	0.48ha
TOWNHOUSE - 6.5m UNITS	379-394	72	1.66ha
Park	395		1.37ha
STORMWATER MANAGEMENT AREA	396		1.39ha
WALKWAY	397-398		0.05ha
DRAINAGE / WALKWAY	399-401		0.29ha
OPEN SPACE	402-403		6.94ha
FUTURE RIGHT OF WAY	404-405		0.50ha
RIGHT OF WAY	A, B, C, D, E, F, G H, I, BRADLEY STREET EXTENSION		7.45ha
TOTALS		459	33.27ha

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: AUGUST 18, 2022

SHAKIR REHMATULLAH - PRESIDENT
DUNDALK VILLAGE TWO INC.

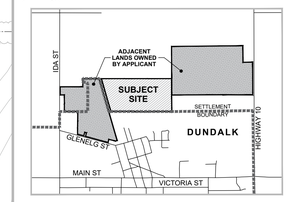
SURVEYOR'S CERTIFICATE

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: AUGUST 18, 2022

DAN DZALDOV - O.L.S.
SCHAEFFER DZALDOV BENNETT LTD.

KEY PLAN



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
B. AS SHOWN
C. AS SHOWN
D. 369 SINGLES, 18 SEMIS, & 72 TOWNHOUSES
E. AS SHOWN
F. AS SHOWN
G. AS SHOWN
H. MUNICIPAL WATER SUPPLY
I. LOAM/SILT LOAM
J. AS SHOWN
K. ALL SERVICES AS REQUIRED (WATER, SANITARY, STORMWATER, HYDRO)
L. AS SHOWN

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

STAMP

DATE	AUG. 18, 2022
FILE No.	15184AT
SCALE	1:1,400 (ARCH D)
DRAWN BY	M.M.
CHECKED BY	K.C.
OTHER	

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

NORTH

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

N:\Southgate\15184AT\Drawings\Draft Plan\CAD\

Appendix B Borehole Logs

Preliminary Hydrogeological Assessment

Glenelg Phase 3

Dundalk Village Two Inc.

SLR Project No. 209.30125.00003

September 12, 2022

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Borehole LOG

BOREHOLE NO: **ESA-3**
SURFACE ELEVATION:

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: ■SPT Count (10 20 30 40 50) ◆ % Moisture (20 40 60 80 100)	BOREHOLE COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	DEPTH (m)
0		**TOPSOIL** Silty sand, organics, brown, soft, moist		0-2	45.8		5				0
1		**SAND** Fine Sand, silty, trace clay, some gravel (angular) and some cobbles, light brown, soft moist		*4-4.5 / DUP-3D	66.7		7				1.0
				*5-7	50.0		14				
2		**Silty SAND TILL** Fine Sand, silty, gravelly (angular) with cobbles, trace clay, light brown, soft, dry		7.5-9.5	45.8		13				2.0
3				10-12	91.7		>50			bentonite seal	3.0
4				12.5-14.5	60.4		>50				4.0
5				15-17			49				5.0
				*17.5-19.5 / DUP-3C	79.2		>50				
6				20-22	33.3						6.0
		End of borehole at m * denotes soil sample taken for lab analysis									

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

DRILL DATE: 2022 May 2
LOGGED BY: RH
DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: MW22-301
SURFACE ELEVATION: 530.99 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: ■SPT Count (10 20 30 40 50) ◆ % Moisture (20 40 60 80 100)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	530.99	**TOPSOIL**									
	530.86	Fine-coarse sand, silty, some organics (rootlets), gravel and cobbles (sub-angular), dark brown, soft, moist		0-2	37.5		■ 7				
1		**Sandy SILT** 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
				5-7	58.3		■ 14				
2	528.70	**Sandy SILT** Some medium-coarse sand, some gravel (sub-angular/sub-rounded), crushed cobbles, soft. Becomes hard/dense at 2.46 m, becomes wet at 2.41 m		7.5-9.5	58.3		■ 40				529
3	527.94	Sub-angular/angular gravel, crumbly, moist		10-12	58.3		■ >50				528
4	527.18	Lower frequency (trace) medium-coarse sand, dense, moist		12.5-14.5	20.8		■ >50			grout	527
5	526.42	**FINE SAND** Silty, trace medium-coarse sand, trace clay, some gravel (angular/sub-rounded), crushed cobbles, light brown, dense, dry-moist		15-17	33.3		■ >50				526
				17.5-19.5	12.5		■ >50				
6	524.89	No recovery			0.0		■ >50			bentonite seal	525
7	524.13	**Sandy SILT** Silty, trace medium-coarse sand, trace gravel, crushed cobbles, brown-grey, crumbly, dense, dry		22.5-24.5	4.2		■ >50				524
	523.37	Increased clay content, moist-wet		25-27	12.5		■ >50			silica sand	523
8										50 mm 010 slot PVC pipe	
				27.5-29.5	16.7		■ >50				
9										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

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.2 m (OD)
DRILL DATE: 2022 April 25
LOGGED BY: AW
DRILLED BY: Orbit Garrant

Notes: SPLIT SPOON
NO RECOVERY

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

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

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count / % Moisture	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	522.64	**TOPSOIL** Black-brown								cement	
	522.39	**Silty SAND** Some CLAY, trace organics, trace gravel, dark-light brown, loose, dry-moist		0-2	100.0		4				
	521.88	Moist									
1				2.5-4.5	79.2		10				522
	521.12	Wet									
				5-7	16.7		3				521
2											
	520.30	**Silty SAND to Sandy SILT TILL** Gravelly, (angular / sub angular), brown, compact, dense, moist.								bentonite seal	
				7.5-9.5	100.0		25				520
3	519.59	Wet									
				10-12	75.0		45				519
	518.83	Moist-wet									
4				12.5-14.5	83.3		42				
	518.07	Trace medium sand, dense/hard, moist									518
				15-17	66.7		>50				
5										silica sand 50 mm 010 slot PVC pipe	
	517.31	Drilled through cobble from 5.33 m - 5.64 m									
	517.00	Grey-light brown, dense, firm, moist									517
				18.5-20	41.7		>50				
6										end cap silica sand	
				20-22	41.7		>50				
										bentonite seal	516
		End of monitoring well at 515.78 m									

Well Completion Details:
Screened interval from 518.07 m to 516.54 m
Elevation at top of pipe (TOP) = 523.59 m

Groundwater Information:
Depth to groundwater from TOP = 2.63 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: 2022 April 19
LOGGED BY: MJ
DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: MW22-303
SURFACE ELEVATION: 518.35 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: ■SPT Count (10 20 30 40 50) ◆ % Moisture (20 40 60 80100)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	518.35	**TOPSOIL**								cement	
	518.10	**Silty SAND** 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				
	516.83	Silty, trace gravel, brown, loose, soft, wet									517
				5-7	8.3		4				
2	516.06	**Silty SAND to Sandy SILT TILL** Gravelly, light brown, dense, firm, moist								bentonite seal	516
				7.5-9.5	75.0		49				
3				10-12	58.3		>50				515
4				12.5-14.5	8.3		>50				514
				15-17	8.3		>50				
5	513.02	Very dense/hard								silica sand 50 mm 010 slot PVC pipe	513
				17.5-19.5	37.5		>50				
6				20-22	12.5		>50			end cap silica sand	512
										bentonite seal	

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

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

Notes: SPLIT SPOON

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: MW22-304
SURFACE ELEVATION: 523.51 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count / % Moisture	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	523.51	**TOPSOIL** Silt, organics (rootlets), dark brown, trace fine sand, moist									523
	523.46	**Silty SAND** Some gravel (sub-angular/sub-rounded), trace, organics, trace medium sand, occasional cobbles, orange mottling, soft-firm, moist		0-2	50.0		SPT 14				
	522.72	Very loose, saturated		2.7-4.5	62.5		SPT 29				
1											
	521.99	**Gravelly SAND** Fine-coarse sand, trace silt, gravel (sub-angular/sub-rounded), cobbles, brown, very loose, saturated		5-7	33.3		SPT 45			bentonite seal	522
2											
	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		SPT 35				521
3				10-10.5	54.2		SPT >50				
				10.4-11.1							
	519.70	Trace clay, less sand with depth, crumbly, dry		12.5-14.5	20.8		SPT >50				520
4											
	518.94	**SAND and SILT** Some fine sand, trace medium-coarse sand, trace clay, trace gravel, grey, very dense, moist-wet		15-17	25.0		SPT >50			silica sand 50 mm 010 slot PVC pipe	519
5				17.5-18.5	12.5		SPT >50			end cap	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

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

Notes: SPLIT SPOON

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_MG_2022.08.30.GPJ SLR_CAN V5.2 MOISTURE.GDT 22/9/8

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: MW22-305
SURFACE ELEVATION: 523.74 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count / % Moisture	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	523.74	**TOPSOIL**									523
	523.44	**Silty SAND** 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									
1				2.5-5	50.0		9				
	522.22	**Silty SAND TILL** Trace medium-coarse sand, trace gravel, trace cobbles, light brown-grey, soft, very loose, wet		*5-7.5	87.5		2				522
2										bentonite seal	
	521.45	Increasing gravel and silt content with depth, increasing density with depth		7.5-10	45.8		13				521
3	520.69	Saturated		10-12.5	45.8		12				
	519.93	Gravelly, some silt, trace cobble, grey-light brown, dense, firm (crumbles), moist		12.5-15	45.8		>50				520
4	519.17	Grey, dense, hard, wet		15.-17.5	54.2		>50				519
5	518.41	Very dense, very hard, wet-moist		17.5-20	62.5		>50			silica sand 50 mm 010 slot PVC pipe	518
6	517.64	Dense, firm-hard (crumbles), moist		20-22.5	66.7		>50			end cap silica sand bentonite seal	517

End of monitoring well at 516.88 m

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

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.2 m (OD)
DRILL DATE: 2022 April 22
LOGGED BY: MJ
DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

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

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count / % Moisture	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	522.84	**TOPSOIL**		0-0.4	45.8		6				522
	522.71	Organics (rootlets), clayey silt, trace fine sand, wormholes, soft, moist		0.4-0.7							
				0.7-0.9							
		SAND									
1		Fine-medium sand (layered 1-2mm), silty, grey-brown/orange mottling, soft, loose-compact, wet		2.5-3.3	58.3		22				
	521.82	**Gravelly SAND**		3.3-3.7							
		Gravel (round/sub-rounded), fine-coarse sand, trace cobbles, trace silt, grey, loose, saturated									
	521.21			5-5.3	50		18				521
		Silty SAND		5.3-6.0							
2		Silty fine sand, trace gravel (sub-angular/sub-rounded), trace cobbles, increased silty with depth, trace clay, grey-brown, loose, saturated									
				7.5-9.5	50.0		>50				
3										bentonite seal	520
				10-12	16.7		>50				
	518.98			12.5-12.7	25.0		>50				519
4		**Silty SAND, TILL**		12.7-13							
		Fine sand, trace clay, trace gravel, trace cobbles, grey, dense/hard, moist									
	518.27	More fine sand, grey, dry									
				15-17	8.3		>50				518
5											
				17.5-19.5	20.8		>50				
6											517
					0.0						
	515.98										516
7		Some fine-coarse sand, trace gravel (sub-angular/sub-rounded), grey, hard, dry		22.5-24.5	45.8		>50			silica sand 50 mm 010 slot PVC pipe	
					0.0						515
8											
	514.46										
		Some fine sand, trace medium-coarse sand, trace gravel (sub-angular/sub-rounded), grey, dry		27.5-29.5	50.0		>50				514
9										end cap	
		End of monitoring well at 513.80 m									

Well Completion Details:
Screened interval from 516.85 m to 513.80 m
Elevation at top of pipe (TOP) = 523.67 m

Groundwater Information:
Depth to groundwater from TOP = 1.16 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: 2022 April 28
LOGGED BY: AW
DRILLED BY: Orbit Garrant

Notes: SPLIT SPOON
NO RECOVERY

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

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

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: ■SPT Count (10 20 30 40 50) ◆ % Moisture (20 40 60 80100)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
	522.85	**TOPSOIL**									
	522.72	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							▼		522
1	521.83	**Gravelly SAND** Gravel (round/sub-rounded), fine-coarse sand, trace cobbles, trace silt, grey, loose, saturated								bentonite seal	
	521.22	**Silty SAND** Silty fine sand, trace gravel (sub-angular/sub-rounded), trace cobbles, increased silty with depth, trace clay, grey-brown, loose, saturated									521
2											
3											520
										silica sand 50 mm 010 slot PVC pipe	
	518.99	**Silty SAND, TILL** Fine sand, trace clay, trace gravel, trace cobbles, grey, dense/hard, moist									519
4											
		End of monitoring well at 518.28 m								end cap	

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

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

DRILL DATE: 2022 April 28
LOGGED BY: AW
DRILLED BY: Orbit Garrant

Notes:

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

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

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count / % Moisture	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	527.91	**TOPSOIL**								silica sand	
	527.76	Organics, dark brown, soft, moist		0-2	50.0		4				
		Clayey SILT									
	527.02	Clayey silt, some fine-medium sand, some gravel (rounded), brown, soft, moist, high-plasticity		2.5-4.5	75.0		4				527
1		Silty, trace clay, gravel (rounded), moist-wet		5-7	20.8		5				
2	525.62	**Silty SAND TILL**					27				526
		Fine sand, some gravel (angular) and cobbles, light brown, dense/hard, dry-moist		7.5-9.5	75.0						
3				10-12	75.0		>50				525
				12.5-14.5	70.8		>50			bentonite seal	
4											524
				15-17	79.2						
5	522.58	No Recovery			0.0		>50				523
	521.81	**Sandy SILT TILL**		20-22	66.7		>50				
6		Fine sand, some gravel (angular) and cobbles, light brown, dense/hard, dry-moist									522
	521.05	Wet		22.5-24.5	62.5		50				
7											521
				25-27	33.3		>50				
8				27.5-29.5	25.0		>50				520
				30-32	16.7		>50			silica sand 50 mm 010 slot PVC pipe	
9											519
				32.5-34.5	8.3		>50			end cap silica sand	
10											518
				35-37	50.0		>50			bentonite seal	
11											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									

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

Notes: SPLIT SPOON
NO RECOVERY

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_MG_2022.08.30.GPJ SLR_CAN V5.2 MOISTURE.GDT 22/9/8

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

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

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: ■SPT Count (10 20 30 40 50) ◆ % Moisture (20 40 60 80100)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	527.97	**TOPSOIL**									
	527.82	Organics, dark brown, soft, moist								silica sand	
		Clayey SILT Clayey silt, some fine-medium sand, some gravel (rounded), brown, soft, moist, high-plasticity									
1	527.08	Silty, trace clay, gravel (rounded), moist-wet							▼		527
2											526
	525.68	**Silty SAND TILL** Fine sand, some gravel (angular) and cobbles, light brown, dense/hard, dry-moist								bentonite seal	
3											525
4											524
5											523
	522.64	No Recovery								silica sand 50 mm 010 slot PVC pipe	
6											522
		End of monitoring well at 521.87 m								end cap	
		Well Completion Details: Screened interval from 523.40 m to 521.87 m Elevation at top of pipe (TOP) = 528.71 m									
		Groundwater Information: Depth to groundwater from TOP = 2.16 m (May 13, 2022)									
		MW22-307S was straight drilled adjacent to									

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.2 m (OD)
DRILL DATE: 2022 May 6
LOGGED BY: RH
DRILLED BY: Geo-Environmental

Notes:

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

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

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA ■SPT Count 10 20 30 40 50 ◆ % Moisture 20 40 60 80100	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
		MW22-307D									

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

DRILL DATE: 2022 May 6

LOGGED BY: RH
DRILLED BY: Geo-Environmental

Notes:

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

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

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count / % Moisture	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	522.35	**TOPSOIL**									
	522.17	Organics, silt, trace fine sanddark brown, soft-firm with depth, moist		0-0.6	62.5		8				
				0.6-1.25	8.3		33				
		Silty SAND Some medium-coarse sand, trace organics, trace silt, banded (1-3 mm), gravel (sub-rounded/rounded), brown, loose-compact, wet									522
1				*5-5.5	75.0		20				
	520.62			5.5-7						bentonite seal	521
		Silty SAND TILL Fine sand, some clay, some gravel, some crushed cobbles, brown, low plasticity, dense, hard, moist-dry									
2				7.5-9.5	29.2		>50				520
3	519.30	Trace-some medium-coarse sand, crumbly, dry		10-12	20.8		>50				519
	518.54	Some fine to medium sand, some gravel (sub-angular / sub-rounded), low plasticity, brown, very hard, dry									
4				12.5-14.5	12.5		>50				518
										silica sand 50 mm 010 slot PVC pipe	
5				15-17	33.3		>50				
	517.02	Brown-grey, crumbly, dry		17.5-18	16.7		>50			end cap	517

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

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

DRILL DATE: 2022 April 29
LOGGED BY: AW
DRILLED BY: Orbit Garrant

Notes: SPLIT SPOON

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: MW22-308S
SURFACE ELEVATION: 522.20 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: ■SPT Count (10 20 30 40 50) ◆ % Moisture (20 40 60 80100)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
	522.20	**TOPSOIL** Organics, silt, trace fine sanddark brown, soft-firm with depth, moist									
	522.02	**Silty SAND** Some medium-coarse sand, trace organics, trace silt, banded (1-3 mm), gravel (sub-rounded/rounded), brown, loose-compact, wet								bentonite seal	522
1											521
	520.47	**Silty SAND TILL** Fine sand, some clay, some gravel, some crushed cobbles, brown, low plasticity, dense, hard, moist-dry									
2										silica sand 50 mm 010 slot PVC pipe	520
3										end cap	
		End of monitoring well at 519.15 m Well Completion Details: Screened interval from 520.68 m to 519.15 m Elevation at top of pipe (TOP) = 523.23 m Groundwater Information: Depth to groundwater from TOP = 1.70 m (May 13, 2022) MW22-308S was straight drilled adjacent to MW22-308D									

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

Notes:

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

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

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count / % Moisture	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	521.82	**TOPSOIL**								silica sand	
	521.67	Organics, dark brown, moist		0-2	75.0		10				
		Silty SAND									
	521.06	Medium-fine sand, silt, trace clay, light brown, orange mottling, soft, moist									
1		**Silty SAND TILL**		*2.5-4.5	29.2		8		▼		521
		Medium-fine, gravel (angular) and cobbles, silty, light brown, soft, compact, moist									
				*5-7	41.7		27				
2											520
	519.53										
	519.28	wet									
		Fine sand, cobbles, light brown, compact, moist-wet		7.5-9.5	100.0						
3	518.77	No Recovery									519
					0.0		>50				
	518.01										
4		Some orange mottling, dry-moist		12.5-14.5	66.7		>50				518
										bentonite seal	
5				15-17	100.0		>50				517
				17.5-19.5	70.8		47				
6											516
				20-22	91.7		44				
7											515
				22.5-24.5	100.0		50				
	514.20										
		Wet from 7.62 m to EOH		25-27	41.2		>50				514
8											
				27.5-29.5	54.2		>50				
9											513
				30-32	37.5		>50				
10										silica sand 50 mm 010 slot PVC pipe	512
				32.5-34.5	62.5		>50				
	511.15									end cap	
		COBBLE								silica sand	
11		Pulverized cobble		35-37	66.7		>50				511
										bentonite seal	

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: 2022 May 3
LOGGED BY: RH
DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON
NO RECOVERY

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_MG_2022.08.30.GPJ SLR_CAN V5.2 MOISTURE.GDT 22/9/8

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: MW22-309S
SURFACE ELEVATION: 521.85 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: ■SPT Count (10 20 30 40 50) ◆ % Moisture (20 40 60 80100)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
	521.85	**TOPSOIL**									
	521.70	Organics, dark brown, moist								silica sand	
		Silty SAND Medium-fine sand, silt, trace clay, light brown, orange mottling, soft, moist									
	521.09	**Silty SAND TILL** Medium-fine, gravel (angular) and cobbles, silty, light brown, soft, compact, moist									521
1									▼		
											520
2											
	519.56	wet								bentonite seal	
	519.31	Fine sand, cobbles, light brown, compact, moist-wet									519
3	518.80	No Recovery									
	518.04	**Silty SAND TILL** Medium-fine, gravel (angular) and cobbles, silty, light brown, orange mottling, soft, compact, dry-moist									518
4											
											517
5										silica sand 50 mm 010 slot PVC pipe	
											516
6										end cap	
		End of monitoring well at 515.75 m Well Completion Details: Screened interval from 517.28 m to 515.75 m Elevation at top of pipe (TOP) = 522.83 m Groundwater Information: Depth to groundwater from TOP = 2.14 m (May 13, 2022)									

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

Notes:

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

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

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: ■SPT Count (10 20 30 40 50) ◆ % Moisture (20 40 60 80 100)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
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, ligh brown, soft, moist		2.5-4.5	54.2		5				522
	521.69	Increased gravel content with depth, hard, moist-dry		5.7	91.7		17				
2				7.5-9.5	50.0		>50				521
3	520.16	**COBBLE** Cobble chips, some sand and silt			0.0		>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
	518.64	Cobble chips, dense/hard, dry		15-17	41.7		>50				
5				17.5-19.5	54.2		>50				518
6				20-22	66.7		>50				517
7	516.35	No Recovery (cobble)			0.0		>50				516
	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 010 slot PVC pipe	
8				27.5-29.5	25.0		>50				515
9										end cap	

End of monitoring well at 514.07 m

Well Completion Details:
Screened interval from 515.59 m to 514.07 m
Elevation at top of pipe (TOP) = 524.26 m

Groundwater Information:
Depth to groundwater from TOP = 2.32 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: 2022 May 3
LOGGED BY: RH
DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON
NO RECOVERY

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: MW22-311
SURFACE ELEVATION: 521.05 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count / % Moisture	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	521.05	**TOPSOIL**									521
	520.82	Fine sand, silt, some organics (rootlets), dark brown, soft, moist		0-0.75	66.7		16			bentonite seal	
				0.75-1.0							
		Silty SAND									
	520.29	Trace medium-coarse sand, silty, brown, orange-dark brown mottling, soft, moist-wet		2.5-2.75	12.5		14				
1		Large cobble									520
	519.53	**Silty SAND TILL**									
		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		▼		
2											519
				7.5-9.5	29.2		>50				
3											518
				10-12	41.7		>50				
4										grout	
				12.5-14.5	8.3		>50				517
	516.48	Grey, very dense, moist									
5				15-17	16.7		>50				516
	515.72	No recovery									
					0.0		>50				
6	514.95	**Sandy SILT TILL**									515
		Fine-coarse sand, some gravel (sub-angular/sub-rounded), trace clay, crushed cobbles, grey, very dense, moist		20-22	20.8		>50				
7										bentonite seal	514
				22.5-24.5	20.8		>50				
	513.43	No recovery									
8					0.0		>50			silica sand 50 mm 010 slot PVC pipe	513
	512.67	**Sandy SILT TILL**									
		Silty, some gravel, grey, very dense, moist-saturated		27.5-29.5	45.8		>50				
9										end cap	

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

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

DRILL DATE: 2022 April 26
LOGGED BY: AW
DRILLED BY: Orbit Garrant

Notes: SPLIT SPOON
NO RECOVERY

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: MW22-312
SURFACE ELEVATION: 520.61 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: ■SPT Count (10 20 30 40 50) ◆ % Moisture (20 40 60 80100)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	520.61	**TOPSOIL**									
				0-2	91.7		■4				
	520.15	**Silty SAND** Some medium sand, trace silt, trace gravel, brown, orange mottling, loose, soft, wet									520
1	519.54	**Silty SAND TILL** Fine sand, trace gravel (sub-angular-angular), brown-grey, compact/hard, moist-wet		2.5-4.5	62.5		■10			bentonite seal	
	519.09	No orange mottling onward									519
				5-7	20.8		■15				
2											
				7.5-9.5	37.5		■18				518
3	517.56	**Gravelly SAND** Fine sand, trace coarse sand, trace cobble, trace silt, brown-grey, soft, dense, wet		10-12	20.8		■38			silica sand 50 mm 010 slot PVC pipe	517
4				12.5-14.5	66.7		■37				
	516.04 516.01	Trace gravel, trace silt, grey, dense, moist **Silty SAND TILL** Trace gravel, grey, very dense, very hard, moist		15-17	16.7		■>50			end cap silica sand	516
5										bentonite seal	

End of monitoring well at 515.28 m

Well Completion Details:
Screened interval from 517.56 m to 516.04 m
Elevation at top of pipe (TOP) = 521.66 m

Groundwater Information:
Depth to groundwater from TOP = 1.25 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: 2022 April 20
LOGGED BY: MJ
DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

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

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: ■SPT Count (10 20 30 40 50) ◆ % Moisture (20 40 60 80 100)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	520.00	**TOPSOIL**								silica sand	
	519.87	Fine sandy silt, organics (rootlets), trace clay, dark brown, soft, moist									
	519.24	**Silty SAND**									
1		Silty, trace medium-coarse sand, trace clay, brown, dark brown mottling, soft, moist, high plasticity									519
		Trace gravel (sub-angular/sub-rounded), increased gravel with depth, trace cobbles, saturated									
2											518
	517.56	**Sandy SILT TILL**									
3	516.95	Silty fine sand, some gravel (sub-rounded/sub-angular), firm-hard, moist									517
		Orange mottling/staining (oxidation)									
	516.19	No recovery									
4											516
	515.43	**Silty SAND TILL**								bentonite seal	
5		Silty fine sand, some gravel (sub-rounded/sub-angular), firm-hard, moist									515
6	513.90	Silty, cobble chips, wet		20-22	37.5		>50				514
	513.14	**SAND**		22.5-24.5	33.3		>50				
7		Coarse sand, silty, gravel (angular), cobble chips, trace clay, light brown, dense, wet-moist									513
8				25-27	83.3		>50				512
				27.5-29.5	70.8		>50				
9				30-32	33.3		>50				511
10	510.09	No Recovery			0.0		>50			silica sand 50 mm 010 slot PVC pipe	510
	509.33	**SANDY SILT TILL**								end cap silica sand	
11		Fine sand, clay, gravel, light brown, wet		35-37	20.8		>50			bentonite seal	509
		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									

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

Notes: SPLIT SPOON
NO RECOVERY

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_MG_2022.08.30.GPJ SLR_CAN V5.2 MOISTURE.GDT 22/9/8

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

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

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: SPT Count / % Moisture	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	520.03	**TOPSOIL**									
	519.90	Fine sandy silt, organics (rootlets), trace clay, dark brown, soft, moist									
		Silty SAND		0-2	25.0		10				
		Silty, trace medium-coarse sand, trace clay, brown, dark brown mottling, soft, moist, high plasticity									
	519.27	Trace gravel (sub-angular/sub-rounded), increased gravel with depth, trace cobbles, saturated									
1				2.5-4.5	58.3		13				519
				5-7	54.2		14			bentonite seal	
2											518
	517.59	**Sandy SILT TILL**									
		Silty fine sand, some gravel (sub-rounded/sub-angular), firm-hard, moist		8-9.5	79.2		34				
3	516.98	Orange mottling/staining (oxidation)									517
				10-12	25.0		>50				
	516.22	No recovery									
4					0.0		>50				516
	515.46	**Silty SAND TILL**									
		Silty fine sand, some gravel (sub-rounded/sub-angular), firm-hard, moist		15-17	25.0		>50			silica sand	
5										50 mm 010 slot PVC pipe	515
					4.2		>50				
										end cap	

End of monitoring well at 514.09 m

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

DRILLING METHOD: Hollow Stem Auger Drilling
BOREHOLE DIAMETER: 0.2 m (OD)
DRILL DATE: 2022 April 27
LOGGED BY: AW
DRILLED BY: Orbit Garrant

Notes: SPLIT SPOON
NO RECOVERY

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_MG_2022.08.30.GPJ SLR_CAN V5.2 MOISTURE.GDT 22/9/8

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: MW22-314
SURFACE ELEVATION: 517.28 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: ■SPT Count (10 20 30 40 50) ◆ % Moisture (20 40 60 80100)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	517.28	**TOPSOIL**								cement	517
	517.13	**SAND** Silty, occasional medium sand, trace gravel, brown, orange-black mottling, loose, frim, moist		0-2	70.8		■4				
	516.52	**Gravelly SAND** Fine sand, some cobbles, brown-grey, loose, firm, wet		2.5-4.5	41.7		■14				516
1	515.76										
	515.65	**Silty SAND TILL** 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				
2	514.99	**Gravelly SAND** Probably till, fine-medium sand, gravel (angular), trace cobble, 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
3											
4				12.5-14.5	33.3		■>50				513
				15-17	33.3		■>50			silica sand 50 mm 010 slot PVC pipe	
5				17.5-19.5	66.7		■>50				512
6										end cap silica sand	
				20-22	37.5		■>50			bentonite seal	511
		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									

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

Notes: SPLIT SPOON

Sheet 1 of 1

SLR BOREHOLE LOG (MOISTURE) 209.30125.00003_MG_2022.08.30.GPJ SLR_CAN V5.2 MOISTURE.GDT 22/9/8

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

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

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE ID	% Recovery	TEST DATA (SPT Count / % Moisture)	WELL COMPLETION NOTES	ELEVATION (m)
0	518.81	**TOPSOIL**	*0-0.4 / DUP-3B	50.0	5	cement	
0	518.61	**Silty SAND TILL** Some silt, trace gravel, trace clay, orange-black mottling, brown, firm, loose, moist					
1	518.05	Trace medium sand, hard, moist, increasing density and gravel content with depth	2.5-5	33.3	9		518
1	517.29	Firm, compact, moist	5-7.5	66.7	15		
2			7.5-10	100.0	48		517
3			10-12.5	41.7	>50		516
4			12.5-15	62.5	>50		515
5			15-17.5	83.3	49		514
5			17.5-20	79.2	>50	bentonite seal	
6			20-22.5	79.2	34		513
7			22.5-25	54.2	>50		512
8			25-27.5	37.5	>50		511
9			27.5-30	54.2	>50		510
10			30-32.5	16.7	>50		509
11			32.5-35	8.3	>50		508
11			35-37.5	20.8	>50	silica sand 50 mm 010 slot PVC pipe	
12			37.5-40	33.3	>50		507
	506.41	**SAND** Fine-medium sand, gravel (angular), light grey, firm, compact, wet	40-42.5	41.7	>50	end cap silica sand bentonite seal	506

End of monitoring well at 505.86 m

Well Completion Details:
Screened interval from 508.14 m to 506.62 m
Elevation at top of pipe (TOP) = 519.73 m

Groundwater Information:
Depth to groundwater from TOP = 3.89 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: 2022 April 28
LOGGED BY: MJ
DRILLED BY: Geo-Environmental

Notes: SPLIT SPOON

SLR CONSULTING (CANADA) LTD.

CLIENT: **Dundalk Village Two Inc.**
PROJECT: **Lots 223 & 227 Conc 1 Southgate, ON**
ADDRESS:
SLR JOB NO: **209.30125.00003**

Monitoring Well LOG

BOREHOLE NO: MW22-316
SURFACE ELEVATION: 520.07 m

DEPTH (m)	ELEVATION (m)	SOIL DESCRIPTION	SAMPLE TYPE	SAMPLE ID	% Recovery	SOIL TYPE	TEST DATA: ■SPT Count (10 20 30 40 50) ◆ % Moisture (20 40 60 80 100)	WELL COMPLETION	WATER LEVEL	WELL COMPLETION NOTES	ELEVATION (m)
0	520.07	**TOPSOIL**									520
	519.84	Organics, dark brown, moist								silica sand	
		Silty SAND TILL Fine sand, silt, gravel (angular), trace clay, light brown, soft, moist		0-2	37.5		6				
1				*2.5-4.5 / DUP-3E	37.5		12				519
				*5-7	33.3		13				
2											518
	517.78	Cobbles, light brown, dense/hard, dry		7.5-9.5	83.3		35				
3				10-12	58.3		>50				517
	516.26	**COBBLE**								bentonite seal	
4		Cobble chips, dry		12.5-14.5	20.8		>50				516
				15-17			>50				
5											515
	514.74	No Recovery			0.0						
6	513.97	**Silty SAND TILL** Fine sand, gravel (angular), light brown-grey, dense/hard, dry		20-22	45.8		>50				514
				22.5-24.5	50.0		>50				
7											513
	512.45	Wet from 7.62 to EOH		25-27	45.8		>50				
8											512
				27.5-29.5	37.5		>50			silica sand 50 mm 010 slot PVC pipe	
9											511
		End of monitoring well at 510.93 m								end cap	

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

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

Notes: SPLIT SPOON
NO RECOVERY

Appendix C Groundwater Data

Preliminary Hydrogeological Assessment

Glenelg Phase 3

Dundalk Village Two Inc.

SLR Project No. 209.30125.00003

September 12, 2022

Table C-1: Groundwater Elevations in Monitoring Wells

Monitor ID	Units	13-May-22	13-Jul-22
MW22-301	mbgs	0.16	2.57
	masl	530.83	528.42
MW22-302	mbgs	1.68	2.15
	masl	520.96	520.49
MW22-303	mbgs	0.77	1.37
	masl	517.58	516.98
MW22-304	mbgs	0.71	1.80
	masl	522.80	521.71
MW22-305	mbgs	0.46	1.31
	masl	523.28	522.43
MW22-306S	mbgs	0.43	1.30
	masl	522.42	521.55
MW22-306D	mbgs	0.33	1.24
	masl	522.52	521.60
MW22-307S	mbgs	1.41	2.23
	masl	526.56	525.74
MW22-307D	mbgs	1.24	2.06
	masl	526.67	525.85
MW22-308S	mbgs	0.67	1.75
	masl	521.54	520.45
MW22-308D	mbgs	0.72	1.89
	masl	521.63	520.46
MW22-309S	mbgs	1.15	-
	masl	520.70	-
MW22-309D	mbgs	1.17	-
	masl	520.65	-
MW22-310	mbgs	1.27	1.96
	masl	521.94	521.25
MW22-311	mbgs	1.91	2.56
	masl	519.14	518.49
MW22-312	mbgs	0.20	1.03
	masl	520.41	519.58
MW22-313S	mbgs	0.36	1.43
	masl	519.67	518.60
MW22-313D	mbgs	4.87	1.59
	masl	515.13	518.42
MW22-314	mbgs	0.58	1.43
	masl	516.70	515.85
MW22-315	mbgs	2.97	3.96
	masl	515.84	514.85
MW22-316	mbgs	1.40	2.14
	masl	518.67	517.94

Table C-2: Groundwater Elevations in Mini-Piezometers

Monitor ID	Units	13-May-22	13-Jul-22
MP1S	mbgs	0.16	0.43
	masl	516.77	516.50
MP1D	mbgs	-0.05	0.20
	masl	516.93	516.68
MP2S	mbgs	-0.15	-0.25
	masl	519.97	520.07
MP2D	mbgs	-0.80	-0.08
	masl	520.61	519.89
MP3S	mbgs	0.34	0.42
	masl	516.73	516.65
MP3D	mbgs	1.70	0.27
	masl	515.26	516.69
MP4S	mbgs	-0.03	Dry @ 0.86
	masl	523.65	Dry @ 522.76
MP4D	mbgs	0.22	1.46
	masl	523.36	522.12
MP5S	mbgs	-0.79	Dry @ 0.95
	masl	523.54	Dry @ 521.80
MP5D	mbgs	0.02	1.23
	masl	522.65	521.44
MP6S	mbgs	-0.04	0.36
	masl	520.95	520.55
MP6D	mbgs	-0.23	0.11
	masl	521.12	520.78

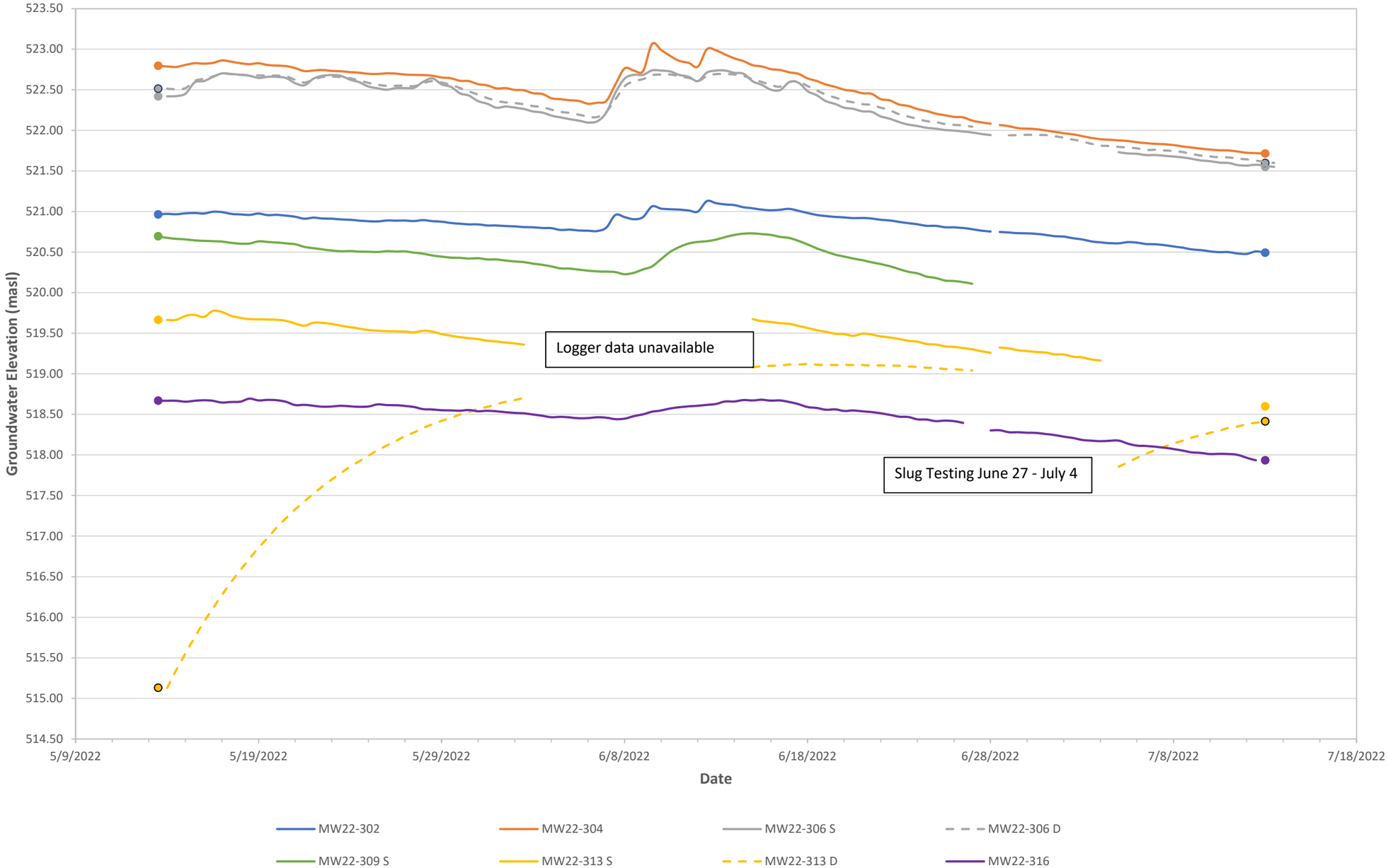


Figure C-1	Hydrograph - Monitoring Wells	SLR

Figure C-2	**Hydrograph - Mini-piezometers**	SLR

Appendix D Hydraulic Conductivity Testing

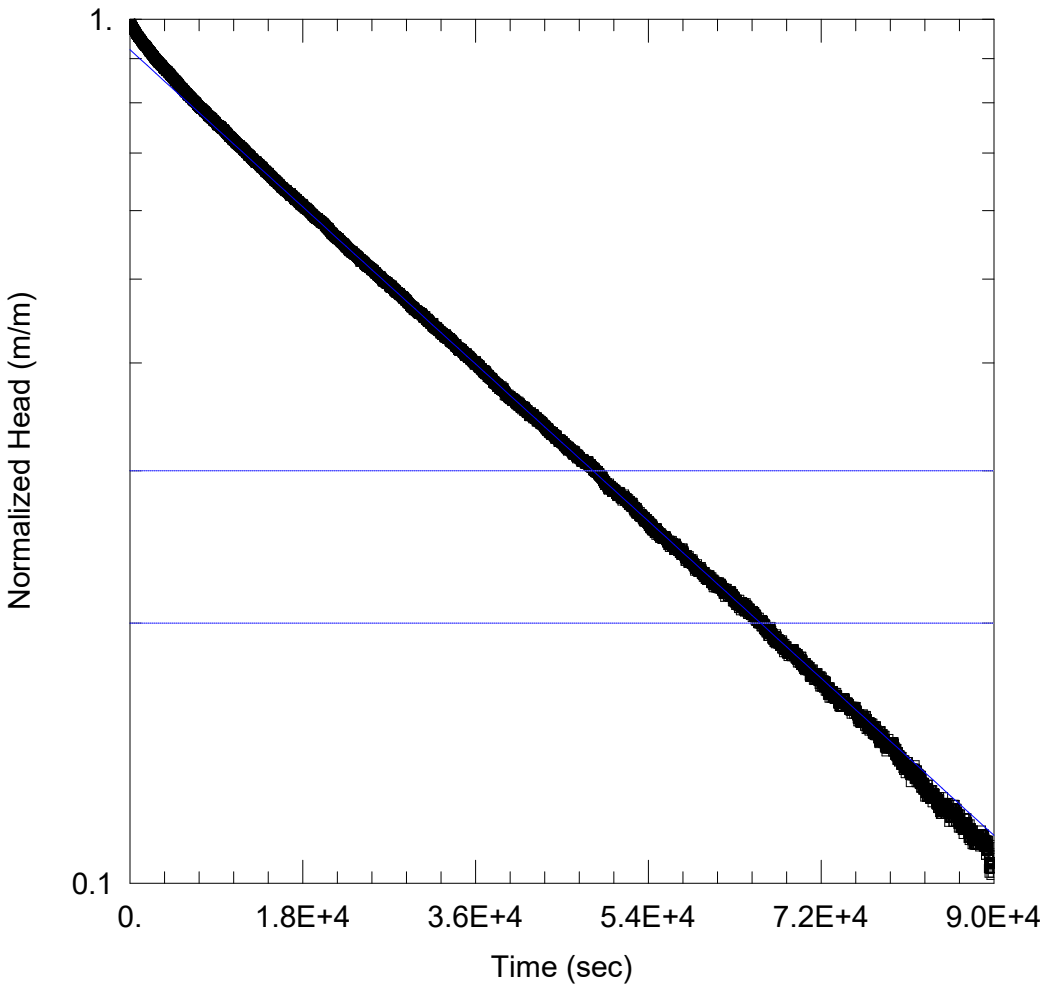
Preliminary Hydrogeological Assessment

Glenelg Phase 3

Dundalk Village Two Inc.

SLR Project No. 209.30125.00003

September 12, 2022



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

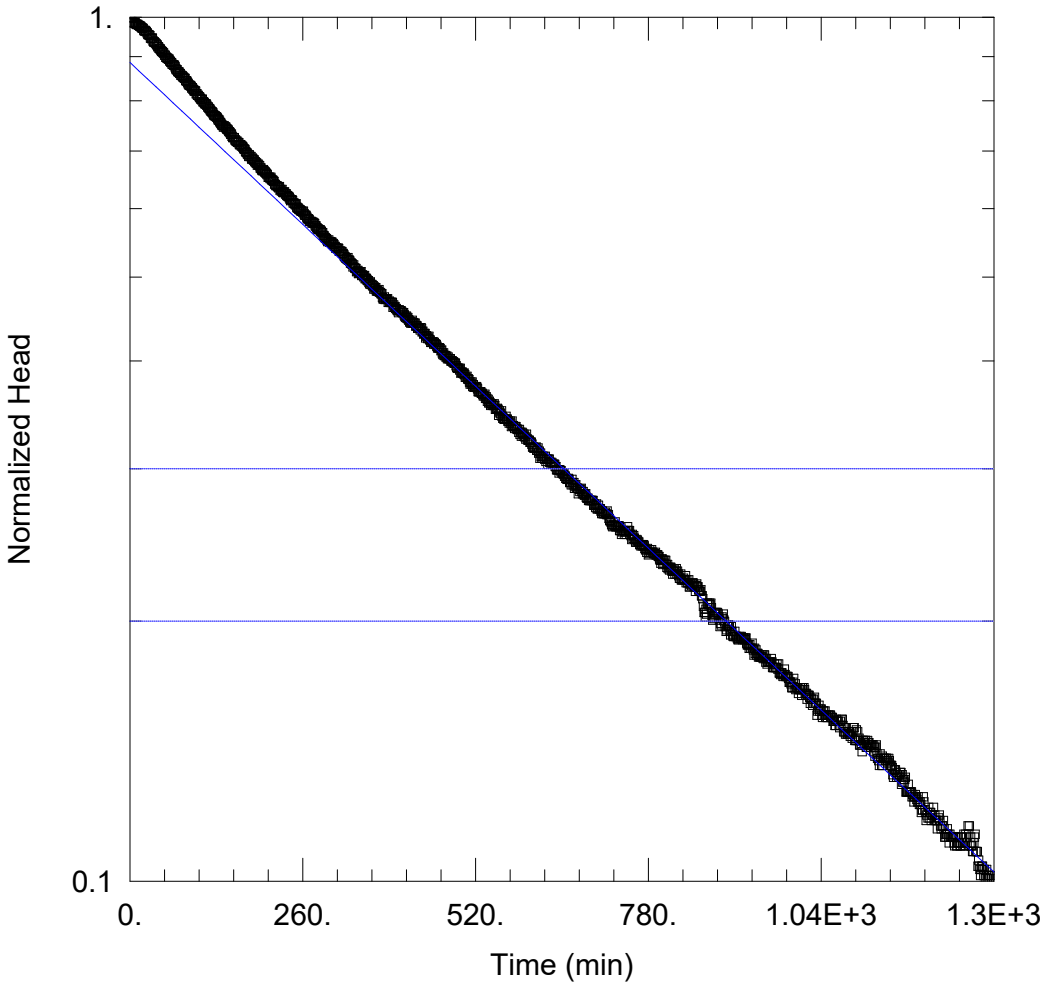
Saturated Thickness: 8.265 m Anisotropy Ratio (Kz/Kr): 1.

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
Solution Method: Bouwer-Rice
K = 7.592E-9 m/sec
y0 = 1.357 m



WELL TEST ANALYSIS

Data Set: N:\...\MW22-306S_AM.aqt
Date: 07/27/22 Time: 16:59:39

PROJECT INFORMATION

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.

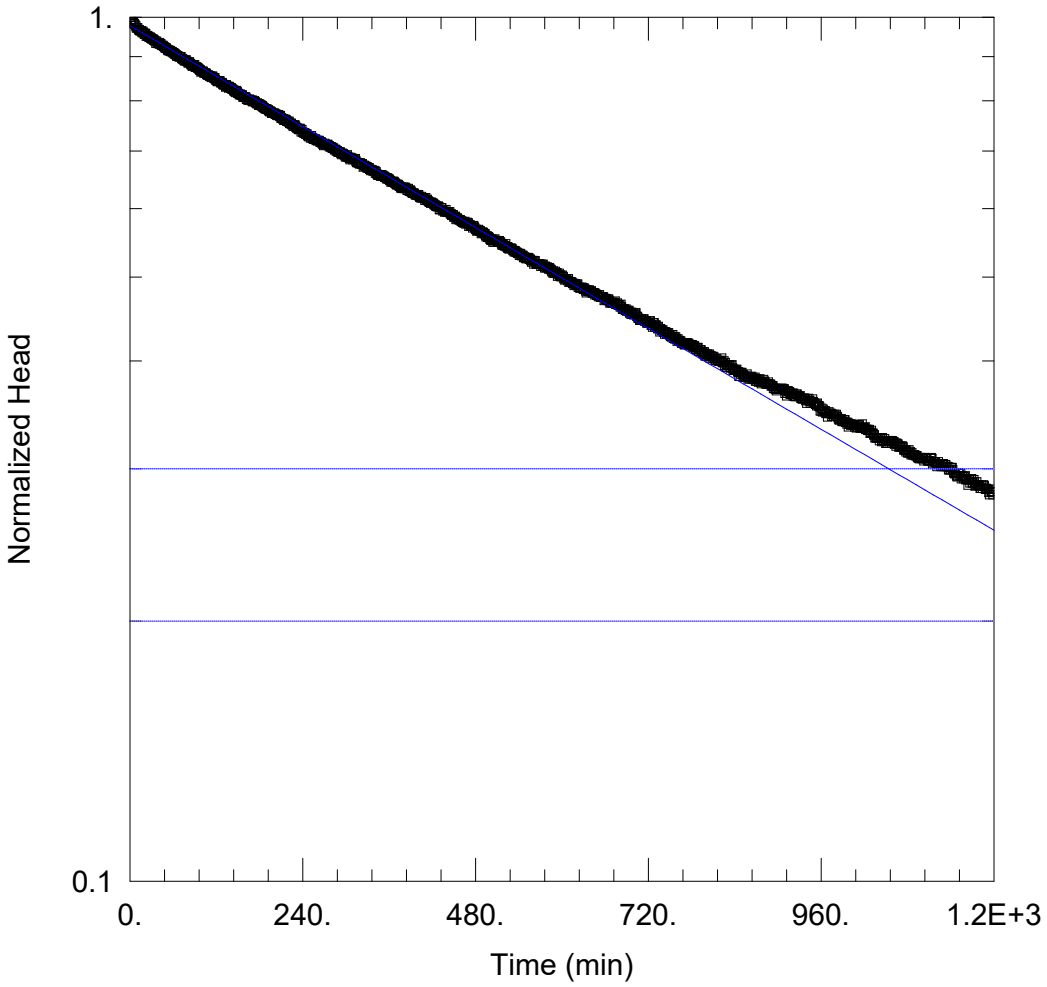
WELL DATA (MW22-306S)

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: Bouwer-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

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.

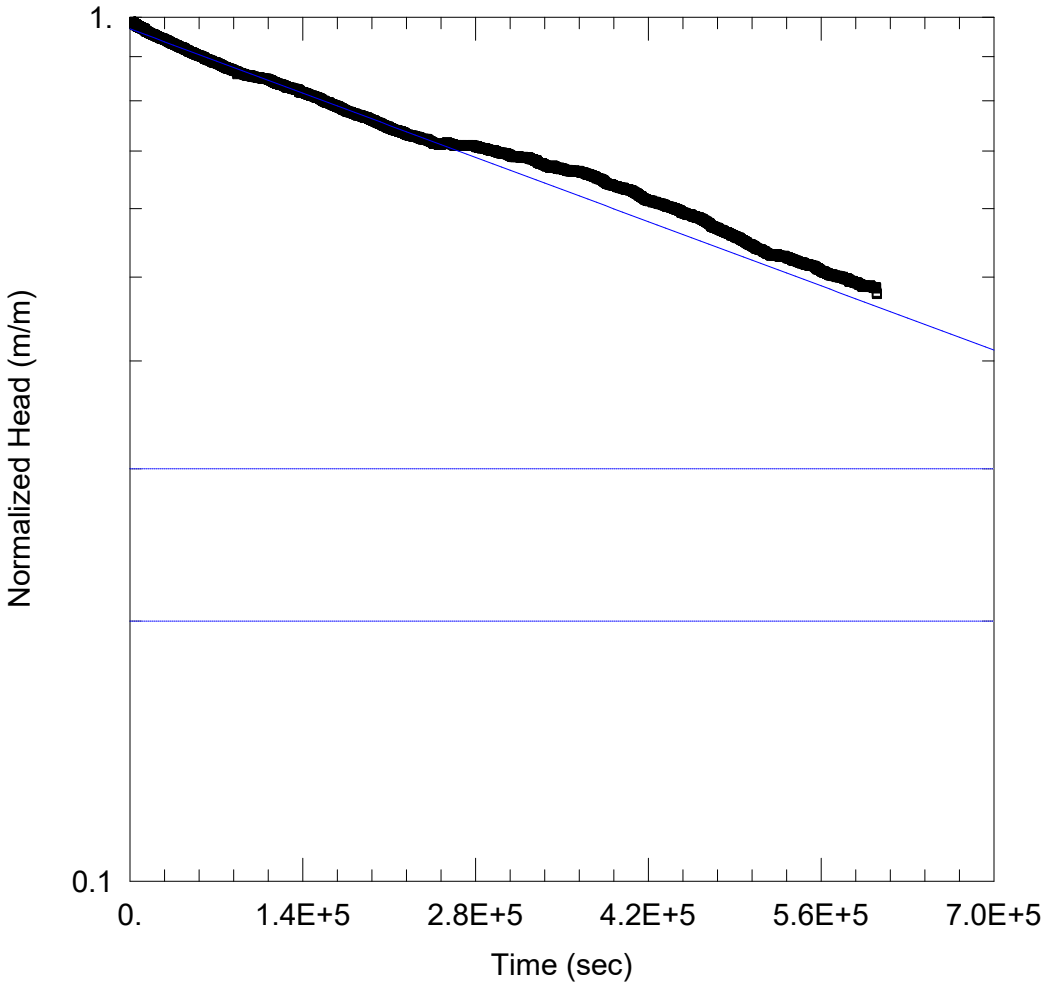
WELL DATA (MW22-309S)

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 Solution Method: Bouwer-Rice

K = 1.003E-8 m/sec y0 = 1.114 m



WELL TEST ANALYSIS

Data Set: N:\...\MW22-313D_JH.aqt
Date: 09/02/22 Time: 08:28:59

PROJECT INFORMATION

Project: 209.30125.00003
Location: Dundalk North
Test Well: MW22-313D

AQUIFER DATA

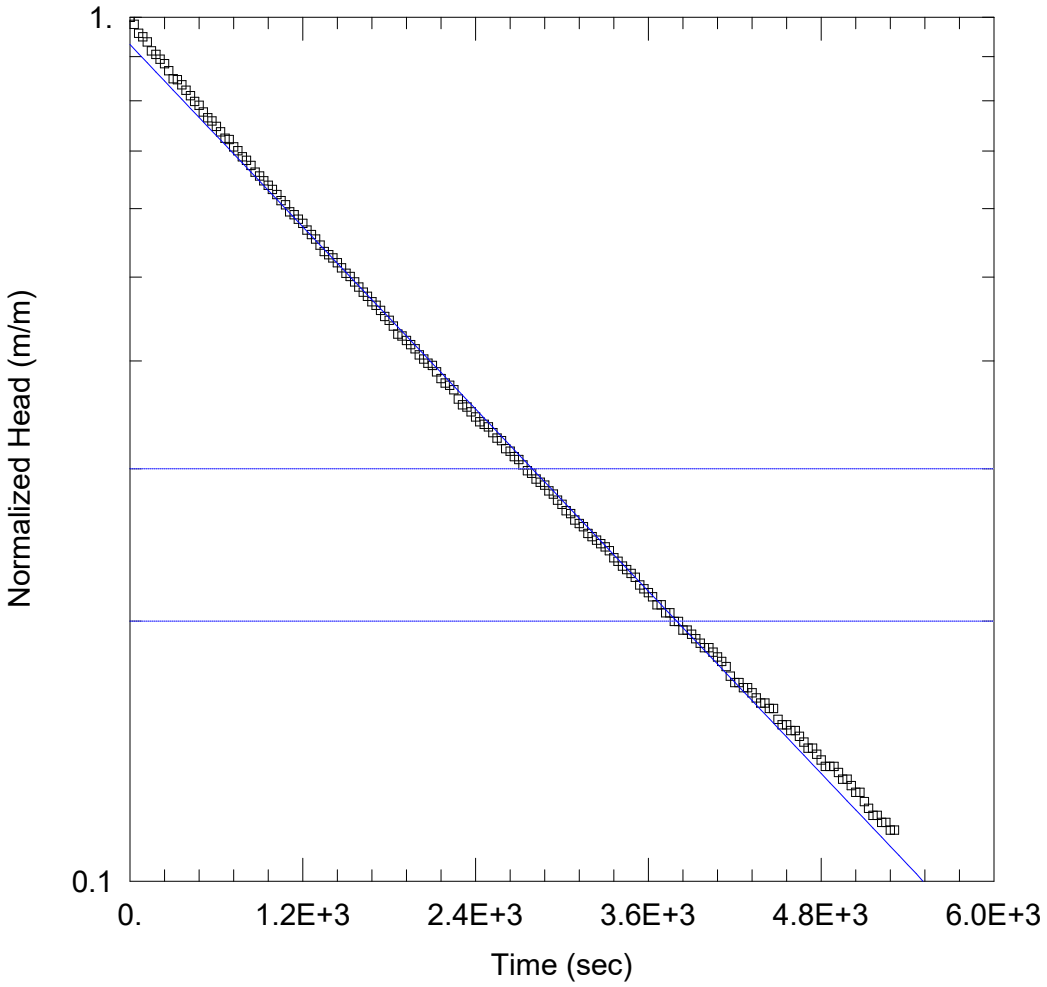
Saturated Thickness: 10.05 m Anisotropy Ratio (Kz/Kr): 1.

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
Solution Method: Bouwer-Rice
K = 7.628E-10 m/sec
y0 = 2.817 m



WELL TEST ANALYSIS

Data Set: N:\...\MW22-313S_JH.aqt
Date: 07/29/22 Time: 12:13:07

PROJECT INFORMATION

Project: 209.30125.00003
Location: Dundalk North
Test Well: MW22-313S

AQUIFER DATA

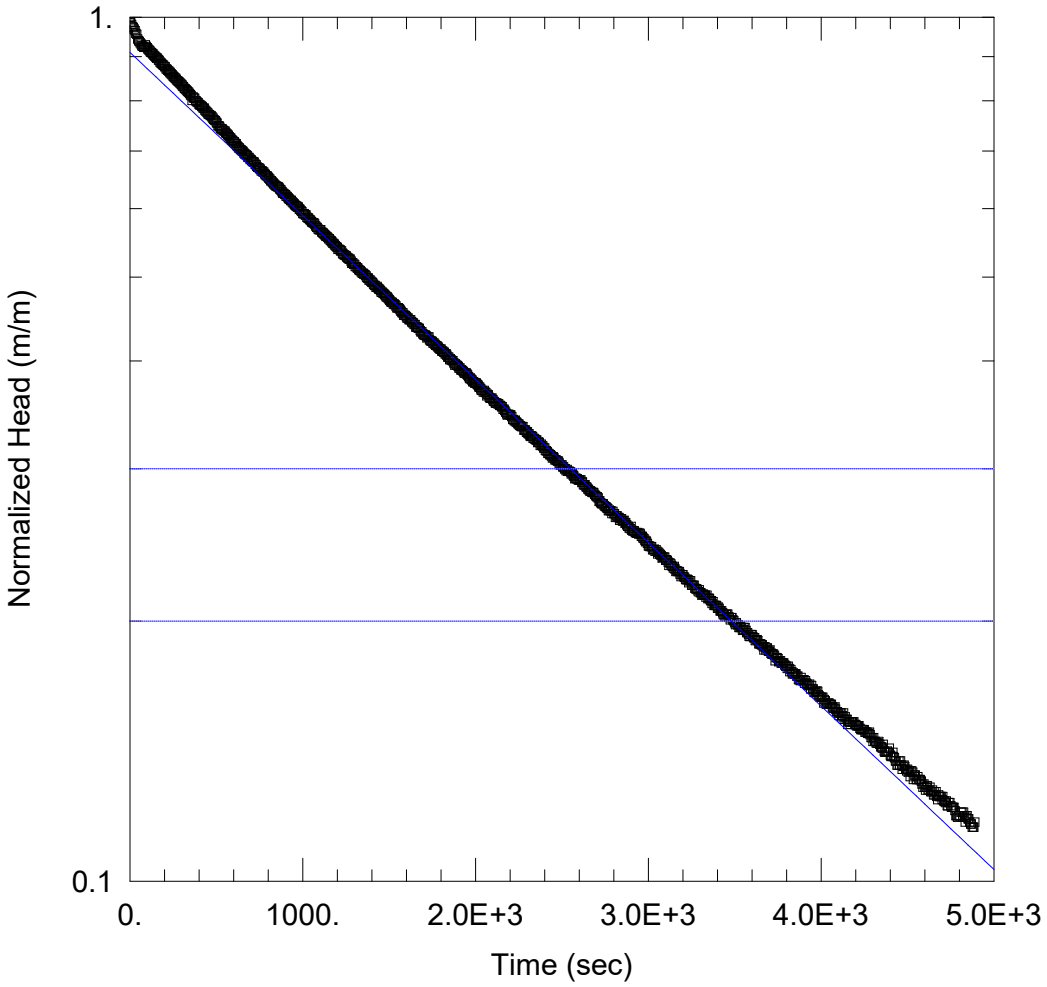
Saturated Thickness: 4.825 m Anisotropy Ratio (Kz/Kr): 1.

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
Solution Method: Bouwer-Rice
K = 2.226E-7 m/sec
y0 = 1.13 m



WELL TEST ANALYSIS

Data Set: N:\...\MW22-316_JH.aqt
Date: 07/29/22 Time: 12:14:11

PROJECT INFORMATION

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
Solution Method: Bouwer-Rice
K = 2.585E-7 m/sec
y0 = 1.605 m

Appendix E MECP Water Well Records

Preliminary Hydrogeological Assessment

Glenelg Phase 3

Dundalk Village Two Inc.

SLR Project No. 209.30125.00003

September 12, 2022

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						

SB

UTM ~~K.O~~ ~~S.R.S~~ | | | | | E

5 R ~~Y.O.F 224~~ | | | N

Elev. 5 R 1730

Basin 23

The Ontario Water Resources Commission Act

WATER WELL RECORD

No. 350

County or District DUFFERIN Township, Village, Town or City MELANCTHON

Con. 1 N.E. Lot PT. 224 Date completed 26 (day) JULY (month) 1967 (year)

[redacted]ress DUNDALK ONT.

Casing and Screen Record		Pumping Test	
Inside diameter of casing	4"	Static level	15
Total length of casing	97	Test-pumping rate	20 G.P.M.
Type of screen		Pumping level	16
Length of screen		Duration of test pumping	3 HRS
Depth to top of screen		Water clear or cloudy at end of test	CLEAR
Diameter of finished hole	4"	Recommended pumping rate	15 G.P.M.
		with pump setting of	25 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	3	100	FRESH
SAND & BOULDERS	3	25	TO	
SAND & GRAVEL	25	90	102	
GREY ~~ROCK~~ SAND	90	98		
BROWN ROCK	98	102		

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

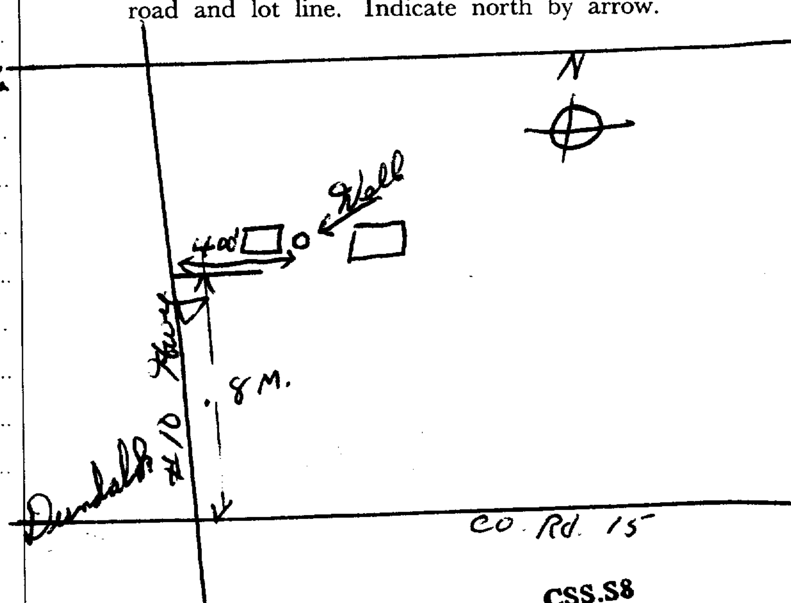
Address DURHAM ONT.

Date JULY 27-67

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

Location of Well

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



Form 7 15M-60-4138

OWRC COPY

CSS.S8

GROUND WATER BRANCH
17 MAY No. 1963 351
ONTARIO WATER RESOURCES COMMISSION

UTM Z E
5 R N
Elev. 5 R 1730

The Ontario Water Resources Commission Act

WATER WELL RECORD

Basin 23
County or District Dufferin
Township, Village, Town or City Melancthon
Con. No. 10. Hwy. Lot 225 227
Date completed 20 (day) Feb. (month) 1963. (year)
[redacted] ress Dundalk.

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	From ft.	To ft.	Water Record: Depth(s) at which water(s) found	Water Record: Kind of water (fresh, salty, sulphur)
Stones & Boulders	0.	20'		
Gravel & Stones	20'	42'	82'	
Hardpan & Boulders	42'	64'	84'	Fresh
Sand & Gravel	64'	72'		
Gravel	72'	84'		

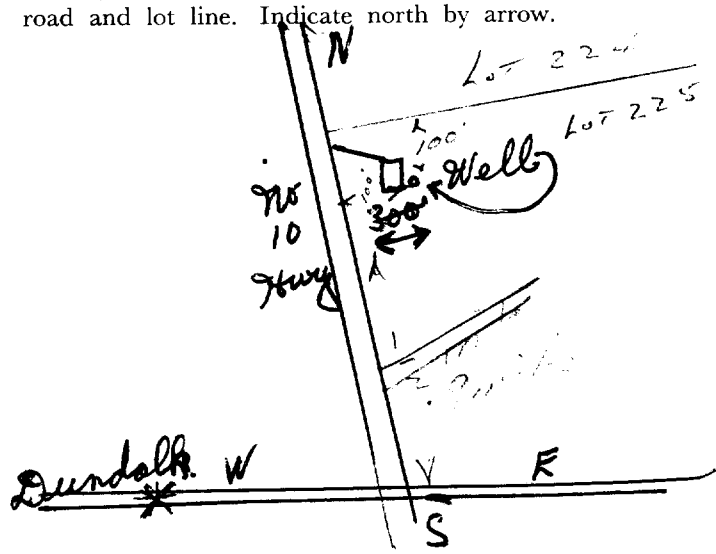
For what purpose(s) is the water to be used? Household use.
Is well on upland, in valley, or on hillside? Upland.
Drilling or Boring Firm Durham Drilling Enterprises Ltd.
Address Box 299. Durham Ont.
Licence Number 1000
Name of Driller or Borer Percy Johnston
Address Fred Hoch Rd. No.
Date April 2nd. 1963.
Percy Johnston.
(Signature of Licensed Drilling or Boring Contractor)

Form 7 10M-62-1152

OWRC COPY

Location of Well

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



CSS.S8

UTM | | Z | | E

5 R | N

Elev. 5 R 1725

Basin 236

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District DUFFERIN   Township, Village, Town or City MELANCTHON

Con. #10 HIGHWAY Lot 226   Date completed 18TH (day) OCT (month) 1962 (year)

[redacted] ess 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'	&	
STONEY CLAY	25'	50'	85	FRESH
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

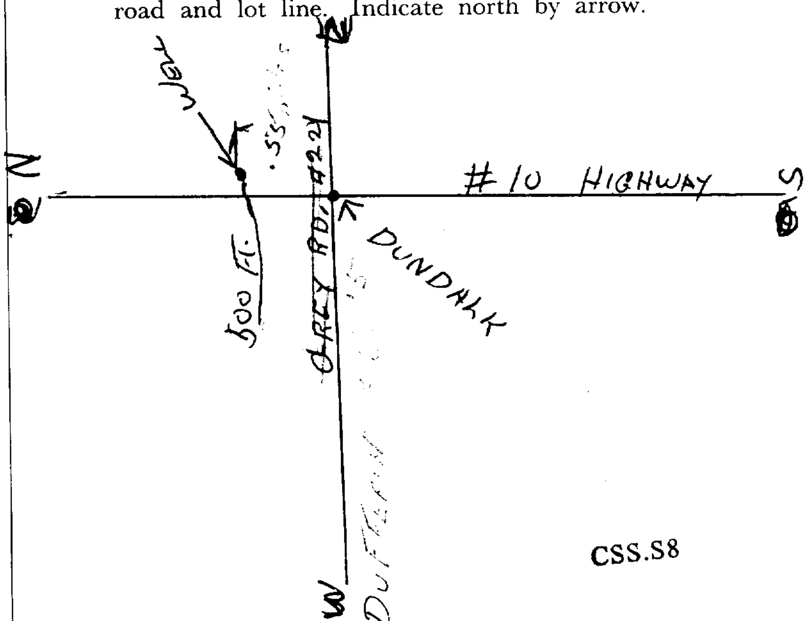
Address DURHAM ONTARIO

Date JAN 4TH 1963

Percy Johnston
(Signature of Licensed Drilling or Boring Contractor)

Location of Well

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



Form 7 10M-62-1152

CSS.S8

OWRC COPY

SRE CON I LOT 224

The Ontario Water Resources Commission Act

WATER WELL RECORD

Water management in Ontario

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

11 | 1701035 | MUNICIP. 17004 | CON. SR E 0 01

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
~~GREY~~ DUFFERIN	~~PROTON~~ MELANCTHON	I S. RD. E.	224

OWNER (SURNAME FIRST) [redacted] ADDRESS DUNDALK

DATE COMPLETED: DAY 06 MO. NOV YR. 1969 (69)

[redacted] 92730 | RC. 4 | ELEVATION 1730 | 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
	CLAY-ROCKS, GRAVEL LAYERS			0	105
GREY	BROKEN - LIMESTONE			105	121

31 | 0105 0511 | 0121 215
32

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0116 / 116-121	1 ☑ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	TO
04	1 ☑ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	205	0	0121
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	SLOTTED CASING FROM 114 FT TO 121 FT		
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☑ PUMP 2 ☐ BAILER
PUMPING RATE: 0008 GPM.
DURATION OF PUMPING: 02 HOURS 00 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
024 FEET	024 FEET	030 FEET	030 FEET	030 FEET	030 FEET

WATER LEVELS DURING: 1 ☑ PUMPING 2 ☐ RECOVERY

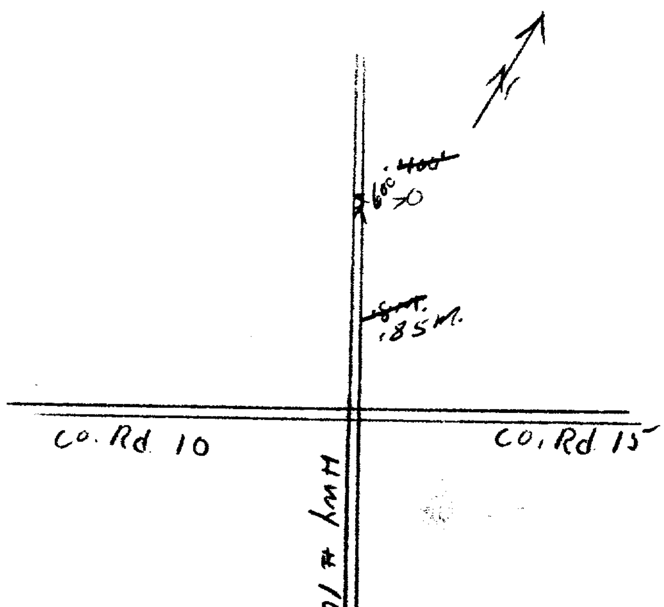
IF FLOWING, GIVE RATE: GPM. | PUMP INTAKE SET AT: FEET | WATER AT END OF TEST: 1 ☑ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☑ DEEP | RECOMMENDED PUMP SETTING: 065 FEET | RECOMMENDED PUMPING RATE: 0008 GPM.

016.0 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

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



DRILLERS REMARKS:

FINAL STATUS OF WELL

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

WATER USE 12

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: LADCO DRILLING | LICENCE NUMBER: 3423
ADDRESS: Hillsburg R. R. #1
NAME OF DRILLER OR BORER: THOMAS LANG | LICENCE NUMBER: 3423
SIGNATURE OF CONTRACTOR: T. Lang | SUBMISSION DATE: DAY 13 MO. NOV YR. 69

OFFICE USE ONLY

DATA SOURCE: 1 | CONTRACTOR: 3316 | DATE RECEIVED: 191169
DATE OF INSPECTION | INSPECTOR
REMARKS: CSS.S8

OWRC COPY

ONTARIO

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

41A/1W

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

11 | 1701454 | MUNICIP. 17004 | CON. SR.E. 01

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT 25-27
~~Grey~~ Dufferin	Melancthon	1 TSRE	228

[redacted] undalk Ont.

DATE COMPLETED 48-53: DAY 06 MO. 04 YR. 73

[redacted] 92200 | RC. 4 | ELEVATION 1725 | 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
	Clay Stones & Gravel			0 -	25
	Hardpan			25 -	100
	~~Rock~~ LIMESTONE			100 -	212

31 | 0025 05 12 11 | 0100 14 | 0212 15
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0212	☒ 1 FRESH ☐ 3 SULPHUR ☐ 2 SALTY ☐ 4 MINERAL
	☐ 1 FRESH ☐ 3 SULPHUR ☐ 2 SALTY ☐ 4 MINERAL
	☐ 1 FRESH ☐ 3 SULPHUR ☐ 2 SALTY ☐ 4 MINERAL
	☐ 1 FRESH ☐ 3 SULPHUR ☐ 2 SALTY ☐ 4 MINERAL
	☐ 1 FRESH ☐ 3 SULPHUR ☐ 2 SALTY ☐ 4 MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
07"	☒ 1 STEEL ☐ 2 GALVANIZED ☐ 3 CONCRETE ~~4 OPEN HOLE~~	241	0 - / 100 -	~~100~~ 0100 / ~~212~~
	☐ 1 STEEL ☐ 2 GALVANIZED ☐ 3 CONCRETE ☒ 4 OPEN HOLE			0212
	☐ 1 STEEL ☐ 2 GALVANIZED ☐ 3 CONCRETE ☐ 4 OPEN HOLE			

SCREEN

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

MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: ☒ 1 PUMP ~~2 BAILER~~ | PUMPING RATE 0021 GPM. | DURATION OF PUMPING 05 HOURS 00 MINS

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
040 FEET	110 FEET	080 FEET	110 FEET	110 FEET	110 FEET

WATER LEVELS DURING: ☒ 1 PUMPING ☐ 2 RECOVERY

IF FLOWING, GIVE RATE: GPM | PUMP INTAKE SET AT 190 FEET | WATER AT END OF TEST: ☐ 1 CLEAR ☒ 2 CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☑ DEEP | RECOMMENDED PUMP SETTING 190 FEET | RECOMMENDED PUMPING RATE 0021 GPM

000.3 GPM./FT. SPECIFIC CAPACITY

FINAL STATUS OF WELL

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

WATER USE 01

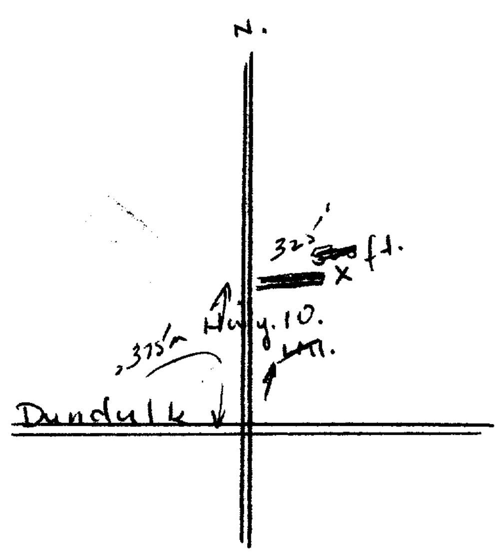
☒ 1 DOMESTIC ☐ 2 STOCK ☐ 3 IRRIGATION ☐ 4 INDUSTRIAL ☐ OTHER ☐ 5 COMMERCIAL ☐ 6 MUNICIPAL ☐ 7 PUBLIC SUPPLY ☐ 8 COOLING OR AIR CONDITIONING ☐ 9 NOT USED

METHOD OF DRILLING

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

LOCATION OF WELL

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



DRILLERS REMARKS:

CONTRACTOR

NAME OF WELL CONTRACTOR	LICENCE NUMBER
S. Neumann	3813

ADDRESS: R. R. 4. Dundalk

NAME OF DRILLER OR BORER: | LICENCE NUMBER:

SIGNATURE OF CONTRACTOR: S. Neumann | SUBMISSION DATE DAY 6. MO. 4. YR. 73

OFFICE USE ONLY

DATA SOURCE 1 | CONTRACTOR 3813 | DATE RECEIVED 060673

DATE OF INSPECTION | INSPECTOR

REMARKS: CSS.S8 | P | WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 07-091

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

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
DUFFERIN	MELANCTON	1 NETSR PT	222
[redacted]	BOX 67 DUNDALK NOC1B0	DATE COMPLETED DAY 5 MO 5 87	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

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

49 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
70	1 ☒ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
TO	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
80	1 ☒ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR; 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
5"	1 ☒ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE	1/188	0	80
	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE			
	1 ☐ STEEL; 2 ☐ GALVANIZED; 3 ☐ CONCRETE; 4 ☐ OPEN HOLE			

SCREEN

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

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

DEPTH SET AT - FEET FROM	TO	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
1 ☒ PUMP 2 ☒ BAILER	20 GPM	3 HOURS 30 MINS

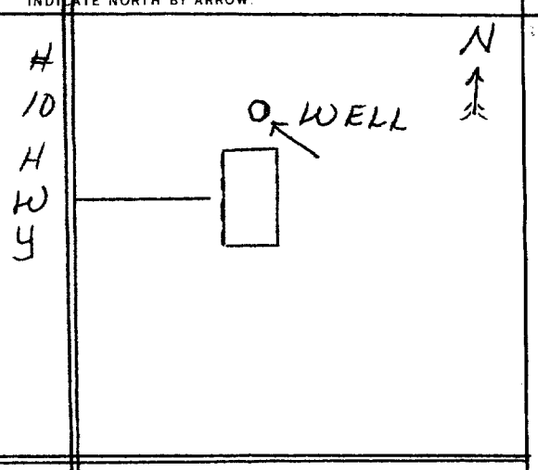
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
6 FEET	18 FEET	1 ☐ PUMPING 2 ☒ RECOVERY	8 FEET	6 FEET	6 FEET	6 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	22 FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☒ DEEP	60 FEET	12 GPM

LOCATION OF WELL

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



DRILLERS REMARKS: 06023

FINAL STATUS OF WELL

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

WATER USE

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

METHOD

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

TRACTOR	LICENCE NUMBER
1 MORILLING ENT LTD	1804
RHAM NOGIRO	
ANYI	LICENCE NUMBER T-0206
ston	SUBMISSION DATE DAY 6 MO 5 87

OF THE ENVIRONMENT COPY

OFFICE USE ONLY

DATA SOURCE	CONTRACTOR	DATE RECEIVED
		260587

DATE OF INSPECTION | INSPECTOR

REMARKS

CSS.ES

FORM NO. 0506—4—77 FORM 7

UTM 17 Z 548115 E
9 R 4819065 10 N
Elev. 9 R 17013
Basin 23

4 1/4 west

ONTARIO

RECEIVED 25
JUL 30 1953
GEOLOGICAL BRANCH
DEPARTMENT OF MINES

No 876

X

The Well Drillers Act

Department of Mines, Province of Ontario

Water Well Record

County or Territorial District.... Grey .... Township, ~~Village, Town or City~~ Village of Dundalk

Con. — Lot — Street and Number (if in Village, Town or City)....

Owner [redacted] Address.... Dundalk Ont.

Date Completed.... 28 (day) June (month) 53 (year) Cost of Well (excluding pump)....

Pipe and Casing Record

Casing diameter(s).... 4" outside

Length(s) of casing(s).... 1.1.9'

Type of screen.... none used

Length of screen....

Distance from top of screen to ground level....

Is well a gravel-wall type?....

Pumping Test

Date....

Static level.... 20'

Pumping level.... 20' how

Pumping rate.... 600 gal. per ~~minute~~ hour

Duration of test.... one hours

Distance from cylinder or bowls to ground level....

Water Record

Kind (fresh or mineral).... fresh

Quality (hard, soft, contains iron, sulphur, etc.) medium hard

Appearance (clear, cloudy, coloured).... clear

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

....

How far is well from possible source of contamination?....

What is the source of contamination?....

Enclose a copy of any mineral analysis that has been made of water....

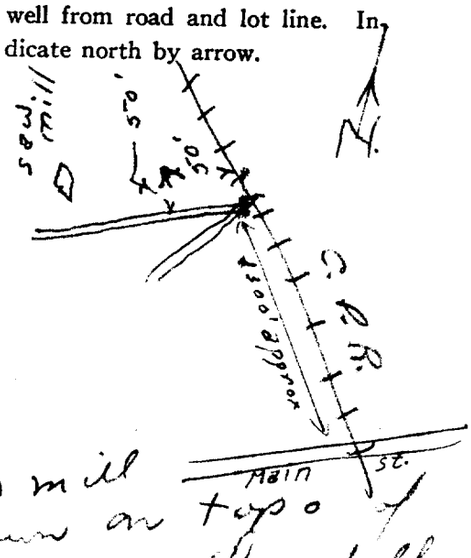
Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises

Well Log

Overburden and Bedrock Record	From	To
clay & boulders	0 ft.	117 ft.
rock	117	141

Location of Well

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



saw mill shown on top of Dundalk.

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

Drilling Firm....

Address....

Name of Driller.... M. A. Bellerby Address 19 Melgund Rd. Toronto

Date.... July 28/53 Licence Number.... 48

M. A. Bellerby
Signature of Licensee

FORM 5

4/A/1

UTM 17 Z 548225 E

9 R 4819078 10 N

Elev. 9 R 1707

Basin 23

ONTARIO

The Water-well Drillers Act, 1954

Department of Mines

RECEIVED

FEB 16 1955

GEOLOGICAL BRANCH
DEPARTMENT OF MINES

25 No 882

Water-Well Record

County or Territorial District Grey Township, Village, ~~Town or City~~ Flesherton

Con. — Lot Centre Street and Number (if in Village, Town or City) Flesherton

Owner [redacted] Address

Date completed 13 10 1954
(day) (month) (year)

Pipe and Casing Record

Casing diameter(s) 4" O.D.

Length(s) 100

Type of screen No Screen

Length of screen

Pumping Test

Static level 25'-1"

Pumping rate 150 Gal per Hour

Pumping level 25'-1"

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)
Clay & Stones	Ground Level	100	150	125'	Fresh
Limestone Rock	100	150			

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. Bellerby

Address

Name of Driller M. A. Bellerby

Address 19 Collingwood Rd Owen Sound

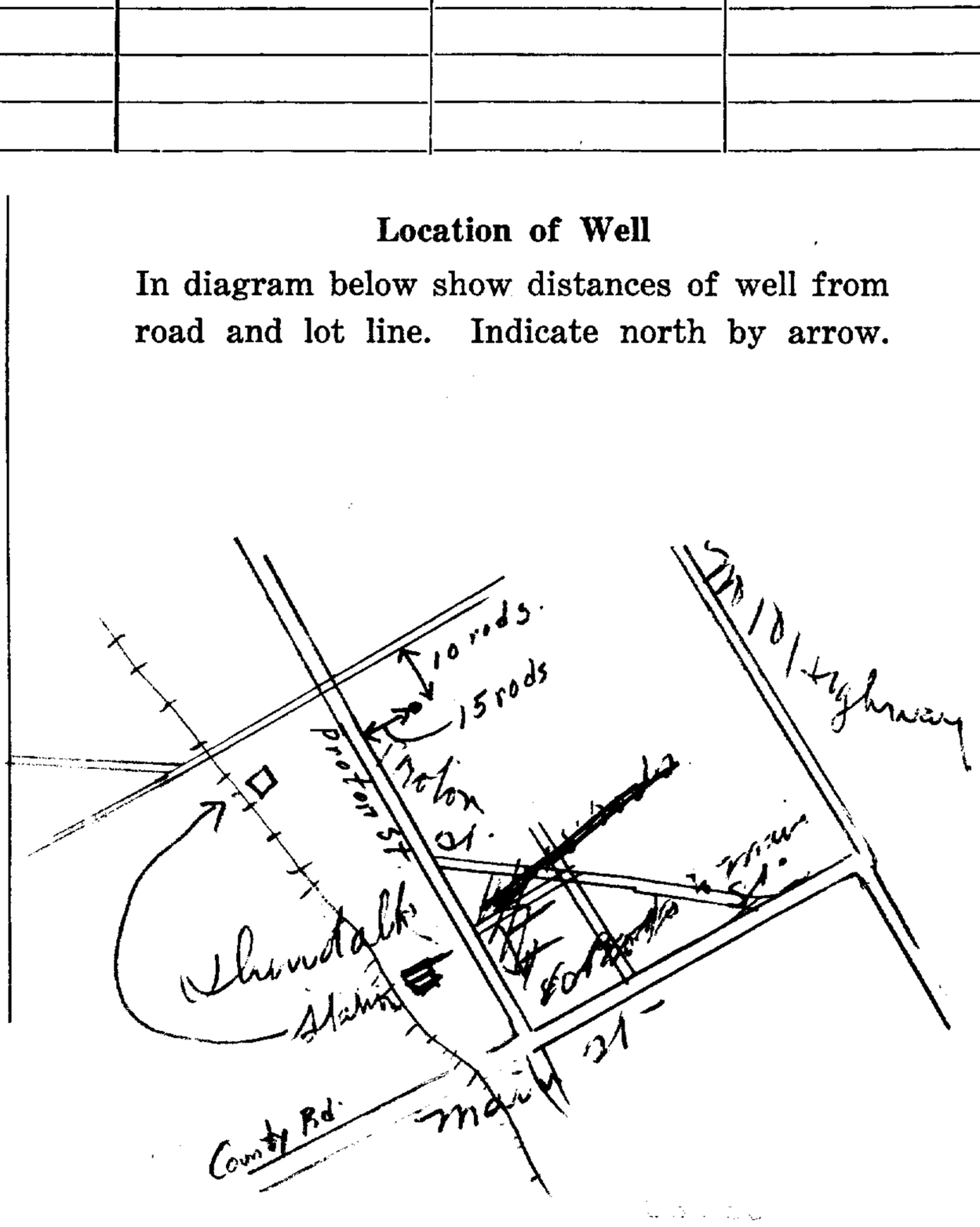
Licence Number 48

I certify that the foregoing statements of fact are true.

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

Location of Well

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



Form 5

41 A/11 e

UTM | 17 | Z | 5 4 7 9 9 0 | E
| 9 | R | 4 8 9 0 5 2 5 | N
Elev. | 9 | R | 1 7 0 1 0 |
Basin | 2 3 | | | |

ONTARIO

The Water-well Drillers Act, 1954
Department of Mines

25 No 888

GROUND WATER BRANCH
APR 17 1957
ONTARIO WATER RESOURCES COMMISSION

Water-Well Record

COEY Township, Village, ~~Town or City~~ Dundalk

[redacted] Village, Town or City)

[redacted] ddress

Date completed 1 (day) May (month) 1956 (year)

Pipe and Casing Record

Casing diameter(s) 3 5/8
Length(s) 102
Type of screen
Length of screen

Pumping Test

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

Well Log

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

Water Record

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

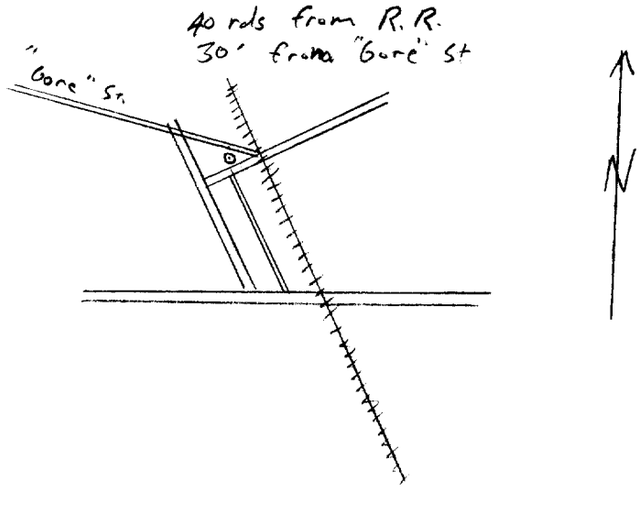
Licence Number 98

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.



Form 5

41 A/1 ~~8~~

UTM 17 Z 548140 E

9 R 4890700 N

Elev. 9 R 1704

Basin 23

25 №. 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 1 Date completed 5 (day) May (month) 1960 (year)

Owner Village of Dundalk (print in block letters) Address Dundalk, Ont.

Casing and Screen Record — Village well #2 — **Pumping Test**

Casing and Screen Record		Pumping Test	
Inside diameter of casing	10"	Static level	23
Total length of casing	99'-10"	Test-pumping rate	45 G.P.M.
Type of screen	—	Pumping level	153'
Length of screen	—	Duration of test pumping	20 hrs.
Depth to top of screen	—	Water clear or cloudy at end of test	clear
Diameter of finished hole	10"	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)
Fill	0	2			
Sand & gravel	2	12			
hardpan, stoney	12	54			
Sand & Clay	54	62			
Sand & gravel	62	98			
Limestone, light brown, hard	98	102			
" , Buff, hard	102	152	104'	81'	Fresh
" , brown, hard	152	195	195	172'	Fresh
" white, hard	195	208			
" Light brown, hard	208	218			
" Buff, hard	218	228	228	205'	Fresh
" Brown, hard	228	248	248	225'	Fresh
" dark Brown, med hard	248	273	—		

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

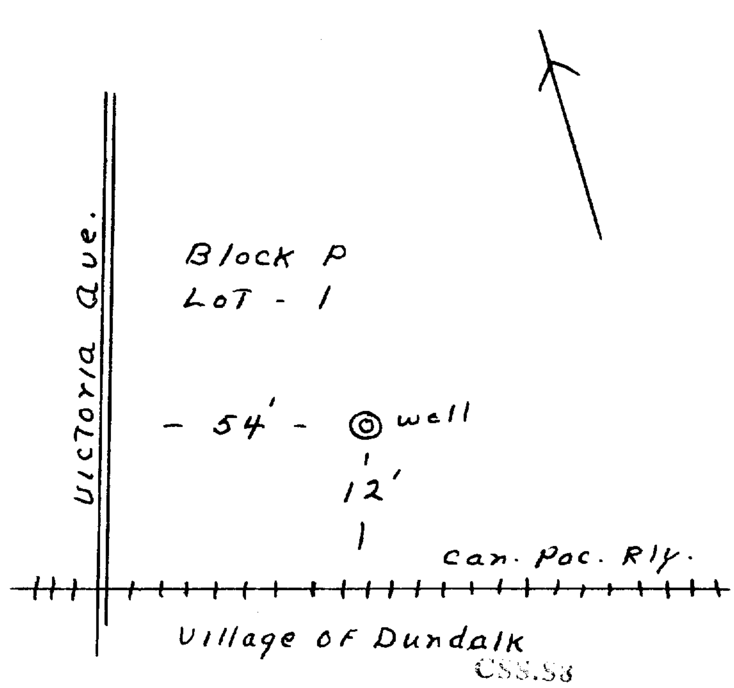
Address Wingham

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.



CSS.58

G.D. 41A/1 ~~Est~~

UTM 1 7 Z 5 4 7 9 7 5 E

1 9 R 4 8 9 0 8 5 0 N

Elev. 1 9 R 1 7 0 4

Basin 2 3

The Ontario Water Resources Commission Act

WATER WELL RECORD

County or District ~~Grey~~ Township, Village, Town or City ~~Proton~~ DUNDALK

Con. Lot Date completed 9 (day) June (month) 1965 (year)

[redacted] ress Dundalk.

Casing and Screen Record

Inside diameter of casing	4"
Total length of casing	114'
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	From ft.	To ft.	Depth(s) at which water(s) found	Kind of water (fresh, salty, sulphur)
Hard Pan & Boulders	0	114		
Gravel	114	117	115 to 117	Fresh

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 Durham Drilling Enterprises Ltd

Address Box 299. Durham

Licence Number 1767

Name of Driller or Borer David Watson

Address Priceville

Date June 10. 1965

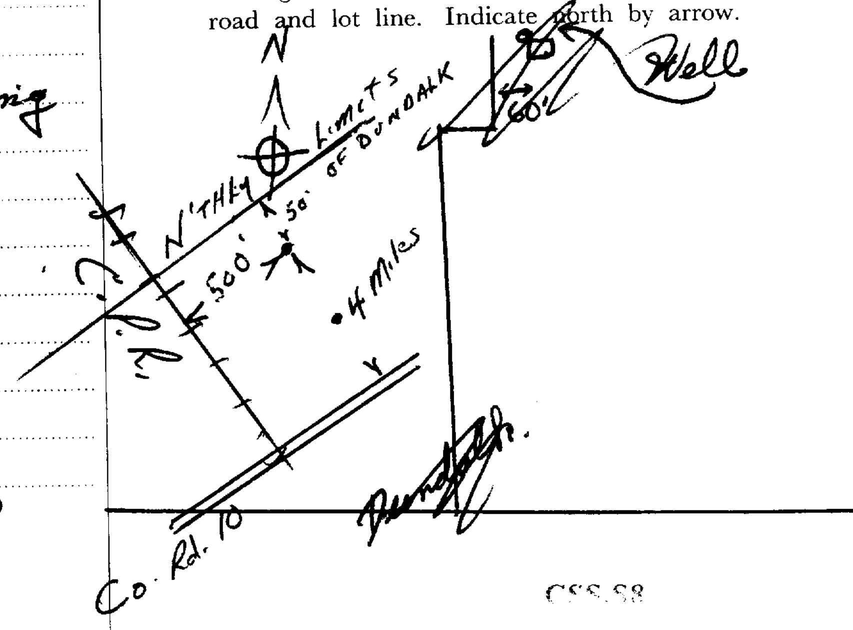
Percy Johnston
(Signature of Licensed Drilling or Boring Contractor)

Form 7 15M-60-4138

OWRC COPY

Location of Well

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



CSS.58

Ontario (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: 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

41A1W
C

The Ontario Water Resources Commission Act

WATER WELL RECORD

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	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
GREY	PROTON	1 ~~SWTSR~~ ~~WTSR~~ WSR	~~220~~ ~~221,222~~ 221

[redacted] UNDALK

DATE COMPLETED 07 — DAY 01 MO ~~July~~ YR. 70

[redacted] 92900 | RC. 4 | ELEVATION 1725 | RC. 5 | BASIN CODE 23

17

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

GENERAL COLOUR	MOST COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	DEPTH – FEET FROM	DEPTH – FEET 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 | 0002802 13 | 0030205 13 | 0060205 12 | 0100209 05 | 0120605 13 | 0130626

32

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0125	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
0130	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	DEPTH – FEET TO
~~4~~ 04	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ ~~OPEN HOLE~~	4	0 / 120	0120 / ~~130~~
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE			0130
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

MATERIAL AND TYPE	DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☒ BAILER
PUMPING RATE: 0015 GPM.
DURATION OF PUMPING: 02 HOURS 20 MINS.

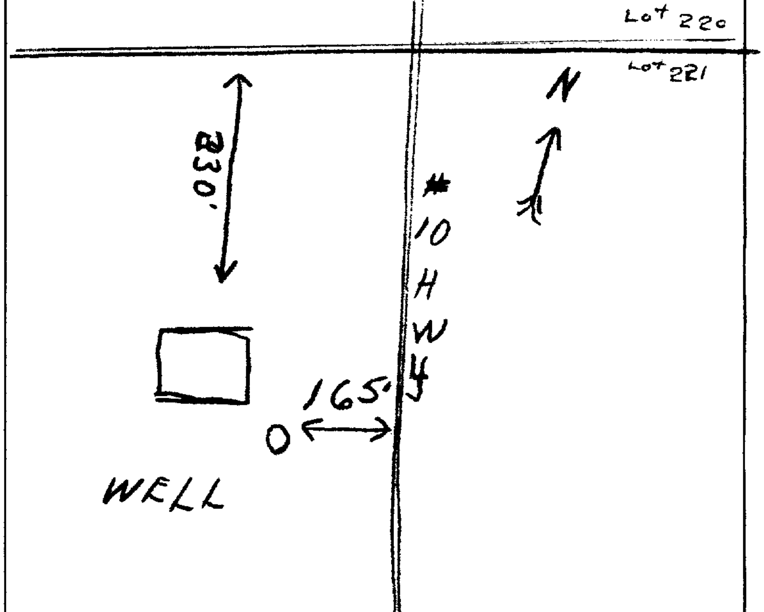
STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
017 FEET	017 FEET	017 FEET	017 FEET	017 FEET	017 FEET

WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY

IF FLOWING, GIVE RATE: X GPM.
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.
030.0 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

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



DRILLERS REMARKS:

FINAL STATUS OF WELL

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

WATER USE 12

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

METHOD OF DRILLING

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

CONTRACTOR

NAME OF WELL CONTRACTOR: DURHAM DRILLING & ENT LTD — LICENCE NUMBER 1804
ADDRESS: DURHAM ONT BOX 299
NAME OF DRILLER OR BORER: ED HOTCHKISS — LICENCE NUMBER
SIGNATURE OF CONTRACTOR: P E Johnston
SUBMISSION DATE: DAY 1 MO July YR. 70

OFFICE USE ONLY

DATA SOURCE: 1 | CONTRACTOR: 1804 | DATE RECEIVED: 060770
DATE OF INSPECTION: 21/6/71 | INSPECTOR: PK
REMARKS:

OWRC COPY

41A 1W

The Ontario Water Resources Commission Act

WATER WELL RECORD

Water management in Ontario

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

11 | 2503216 | MUNICIP. 25702 | CON.

COUNTY OR DISTRICT: GREY | TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE: PROTON DUNDALK | CON., BLOCK, TRACT, SURVEY, ETC. | LOT

[redacted]

DUNDALK ONT.

DATE COMPLETED 06-53: DAY 26 MO ~~JUNE~~ YR 70

81200 | RC. 4 | ELEVATION 1720 | 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	DEPTH – FEET TO
BLACK	TOPSOIL			0	2
BROWN	HARD PAN & STONES.			2	103
BROWN	HARD ROCK			103	123

31 | 0002802 | 0103614/12 | 0123626

32

41 WATER RECORD

WATER FOUND AT – FEET	KIND OF WATER
0115	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
~~70~~	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
~~123~~	1 ☒ ~~FRESH~~ 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH – FEET FROM	DEPTH – FEET TO
04*	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	1/4"	0	0103 ~~103~~
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ ~~OPEN HOLE~~		103 ~~123~~	0123
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD: 1 ☐ PUMP 2 ☒ BAILER

PUMPING RATE: 0010 GPM. | DURATION OF PUMPING: 02 HOURS 20 MINS.

STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY			
		15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
042* FEET	045 FEET	045 FEET	045 FEET	045 FEET	045 FEET

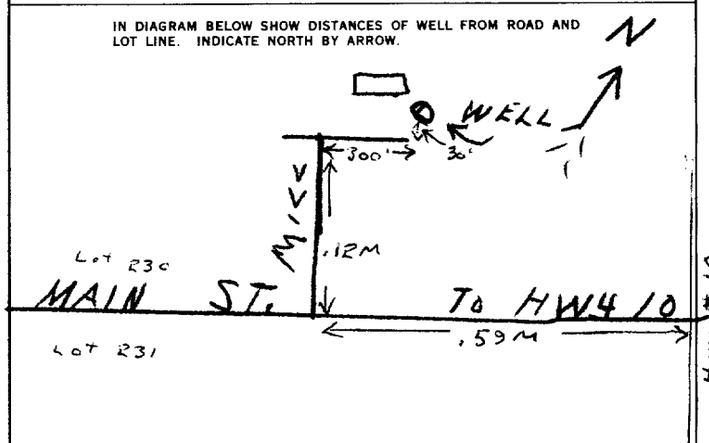
IF FLOWING, GIVE RATE: GPM. | PUMP INTAKE SET AT: FEET | WATER AT END OF TEST: 1 ☐ CLEAR 2 ☒ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP | RECOMMENDED PUMP SETTING: 080' FEET | RECOMMENDED PUMPING RATE: 0008 GPM.

003.3 GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

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



FINAL STATUS OF WELL

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

WATER USE 12

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

METHOD OF DRILLING

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

DRILLERS REMARKS:

CONTRACTOR

NAME OF WELL CONTRACTOR: DURHAM DRILLING ENT. LTD | LICENCE NUMBER: 1804

ADDRESS: BOX 299 DURHAM.

NAME OF DRILLER OR BORER: David Watson | LICENCE NUMBER: 1804

SIGNATURE OF CONTRACTOR: P.E. 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/E

REMARKS:

OWRC COPY

Ontario

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

41 A/1W

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

11 | 2505795 | MUNICIP 25012 | CON SR W | 01

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Grey	Proton	1 S. Rd W	A229

[redacted] 11 St. Dundalk

DATE COMPLETED: DAY 17 MO 08 YR 76

UTM ZONE | EASTING 291360 | RC 5 | NORTHING 1715 | 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	DEPTH - FEET 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 | 0067614138 | 0074214 | 0104614 | 0112215 | 0119315 | 1

32 | 0132211517723

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0128	1 ☒ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
04"	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	205	0	0106
04"	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		1060	132
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

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

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: 1 ☒ PUMPING 2 ☐ RECOVERY	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
060 FEET	090 FEET		090 FEET	090 FEET	090 FEET	090 FEET

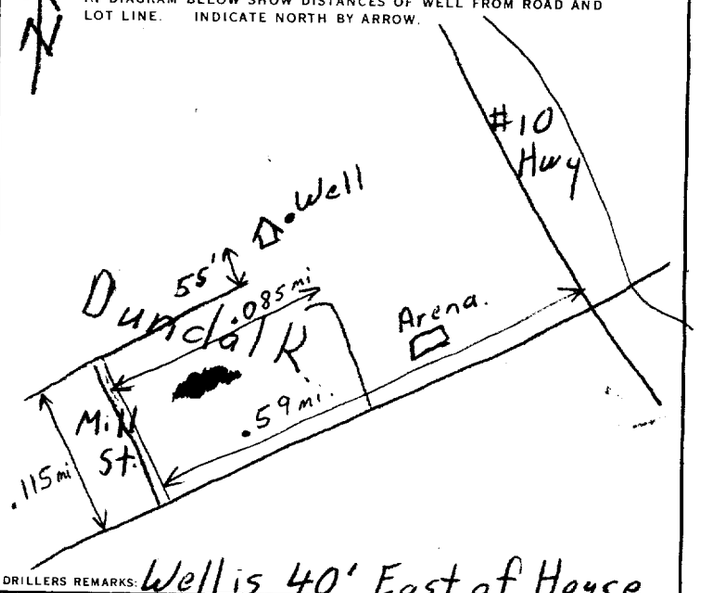
IF FLOWING, GIVE RATE: GPM | PUMP INTAKE SET AT: 90 FEET | WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP | RECOMMENDED PUMP SETTING: 090 FEET | RECOMMENDED PUMPING RATE: 0005 GPM

GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

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



DRILLERS REMARKS: Well is 40' East of House.

FINAL STATUS OF WELL 54: 1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 5 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED

WATER USE 55-56 01: 1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

METHOD OF DRILLING 57 2: 1 ☐ CABLE TOOL 2 ☒ ROTARY (CONVENTIONAL) 3 ☐ ROTARY (REVERSE) 4 ☐ ROTARY (AIR) 5 ☐ AIR PERCUSSION 6 ☐ BORING 7 ☐ DIAMOND 8 ☐ JETTING 9 ☐ DRIVING

CONTRACTOR

NAME OF WELL CONTRACTOR: 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 | SUBMISSION DATE: DAY ____ MO. ____ YR. ____

OFFICE USE ONLY

DATA SOURCE 58: 1 | CONTRACTOR 59-62: 4856 | DATE RECEIVED 63-68: 220976 | 80

DATE OF INSPECTION: June 16/77 | INSPECTOR: J

REMARKS: P/B.S. WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 MOE 07-091

Ontario

MINISTRY OF THE ENVIRONMENT
The Ontario Water Resources Act

WATER WELL RECORD

S.P.M. 41A/1W

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

(11) 2506029 MUNICIP. 25012 CON. SR W 01

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
Grey	Proton	1st ~~Range~~ S.Rd. w. SWTSR.	229

OWNER (SURNAME FIRST) [redacted] ADDRESS 1 Melrose ST. Dundalk.

DATE COMPLETED DAY 15 MO. 04 YR. 77

[redacted] NORTHING 891150 RC. 5 ELEVATION 1705 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			0	1
Brown	Sandy Clay	Gravel		1	27
Brown	Hardpan	Gravel, Boulders.		27	100
Grey	Limestone	Brown Shale.		100	109

(31) 0001802 0027605 1181 0100614 1113 0109 2 15 17

32

(41) WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
007	1 ☒ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL
	1 ☐ FRESH 3 ☐ SULPHUR 2 ☐ SALTY 4 ☐ MINERAL

(51) CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	TO
04"	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	205	0	0102
04"	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		102	0109
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

SIZE(S) 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 FROM	TO	MATERIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)

(71) 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	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
038 FEET	060 FEET	060 FEET	060 FEET	060 FEET	060 FEET

WATER LEVELS DURING: 1 ☒ PUMPING 2 ☐ RECOVERY

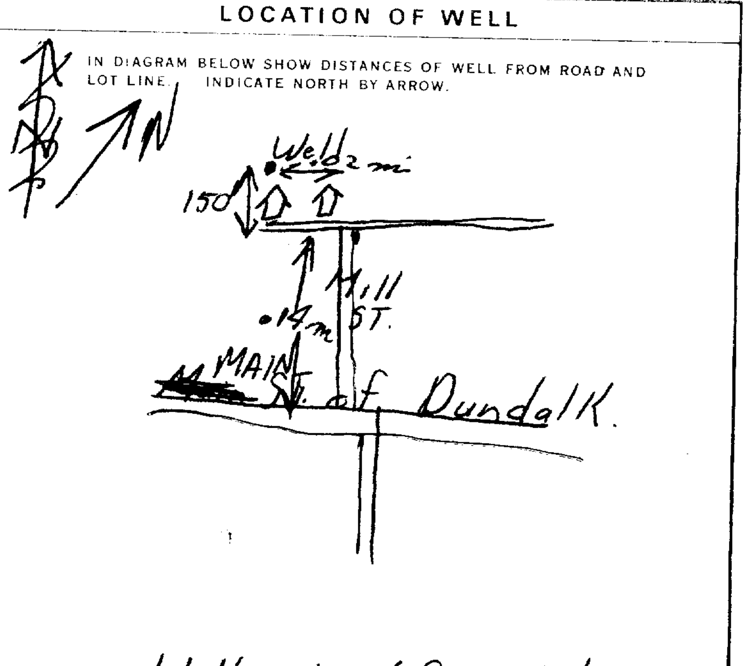
IF FLOWING, GIVE RATE ___ GPM — PUMP INTAKE SET AT 60 FEET — WATER AT END OF TEST: 1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE: ☐ SHALLOW ☒ DEEP — RECOMMENDED PUMP SETTING 060 FEET — RECOMMENDED PUMPING RATE 0007 GPM

GPM./FT. SPECIFIC CAPACITY

LOCATION OF WELL

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



DRILLERS REMARKS: Wellis 150' from Rd.

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

WATER USE 01
1 ☒ DOMESTIC 2 ☐ STOCK 3 ☐ IRRIGATION 4 ☐ INDUSTRIAL ☐ OTHER 5 ☐ COMMERCIAL 6 ☐ MUNICIPAL 7 ☐ PUBLIC SUPPLY 8 ☐ COOLING OR AIR CONDITIONING 9 ☐ NOT USED

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

CONTRACTOR

NAME OF WELL CONTRACTOR: 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 — SUBMISSION DATE DAY ___ MO. ___ YR. ___

OFFICE USE ONLY

DATA SOURCE 1 — CONTRACTOR 4856 — DATE RECEIVED 020577
DATE OF INSPECTION 12/6/78 — INSPECTOR
REMARKS
P
WI

MINISTRY OF THE ENVIRONMENT COPY

FORM 7 MOE 07-091

Ministry of the Environment

Ontario

The Ontario Water Resources Act

WATER WELL RECORD

41/A/1 W

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

11 2506475 MUNICIP. 25012 CON. SR W 02

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
GREY	DROTON	II 2 S-Rd W.	~~225~~ 224

[redacted] RR2 Dundalk. DATE COMPLETED DAY 29 MO 04 YR 78

UTM 90800 5 ELEVATION 1700 5 BASIN CODE 22

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

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

31 0002 02 0048 0581 0074 11 0093 3615

32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
0093	1 ☑ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL
	1 ☐ FRESH 2 ☐ SALTY 3 ☐ SULPHUR 4 ☐ MINERAL

51 CASING & OPEN HOLE RECORD

INSIDE DIAM. INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
06 1/4	1 ☑ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE	188	0	0074
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE		74	0093
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE			

SCREEN

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

MATERIAL AND TYPE | DEPTH TO TOP OF SCREEN FEET

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☑ PUMP 2 ☐ BAILER	0020 GPM	04 HOURS 00 MINS

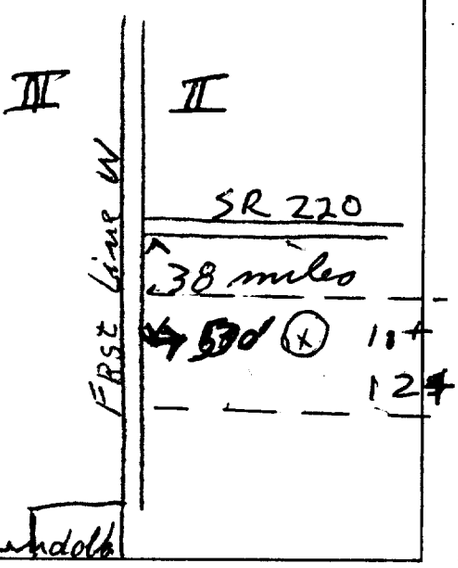
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
012 FEET	~~025~~ 030 FEET	1 ☐ PUMPING 2 ☐ RECOVERY	030 FEET	030 FEET	030 FEET	030 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	FEET	1 ☑ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☑ DEEP	060 FEET	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 54 — 1

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

WATER USE 55-56 — 01

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

METHOD OF DRILLING 57 — 1

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

CONTRACTOR

NAME OF WELL CONTRACTOR	LICENCE NUMBER
IMBRO BREBRIC	1458

ADDRESS: Box 382, Dundalk, Ont.

NAME OF DRILLER OR BORER | LICENCE NUMBER

SIGNATURE OF CONTRACTOR: Imbro Brebric | SUBMISSION DATE: DAY 29 MO 4 YR 78

OFFICE USE ONLY

DATA SOURCE 58	CONTRACTOR 59-62	DATE RECEIVED 63-68
1	1458	170778

DATE OF INSPECTION: 11, 6, 79 | INSPECTOR

REMARKS:

P LL
WI LL

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506—4—77

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

41A/1W

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

11 — 2509109 — MUNICIP 250.12 — CON CON 01

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT	DATE COMPLETED
Grey	Proton	I. GVR	229	DAY 15 MO 9 YR 87
[redacted]	Dundalk			
	TWNG 89/1/25	RC ELEVATION 1700	RC BASIN CODE	

LOG OF OVERBURDEN AND BEDROCK MATERIALS (SEE INSTRUCTIONS)

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

31
32

41 WATER RECORD

WATER FOUND AT - FEET	KIND OF WATER
183	1 ☒ FRESH 2 ☐ SALTY — 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY — 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY — 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY — 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS
	1 ☐ FRESH 2 ☐ SALTY — 3 ☐ SULPHUR 4 ☐ MINERALS 6 ☐ GAS

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6"	1 ☒ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☒ OPEN HOLE 5 ☐ PLASTIC	.188	0	107
			107	183
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			
	1 ☐ STEEL 2 ☐ GALVANIZED 3 ☐ CONCRETE 4 ☐ OPEN HOLE 5 ☐ PLASTIC			

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
1 ☐ PUMP 2 ☒ BAILER — Compr.	6 GPM	0 HOURS ___ MINS

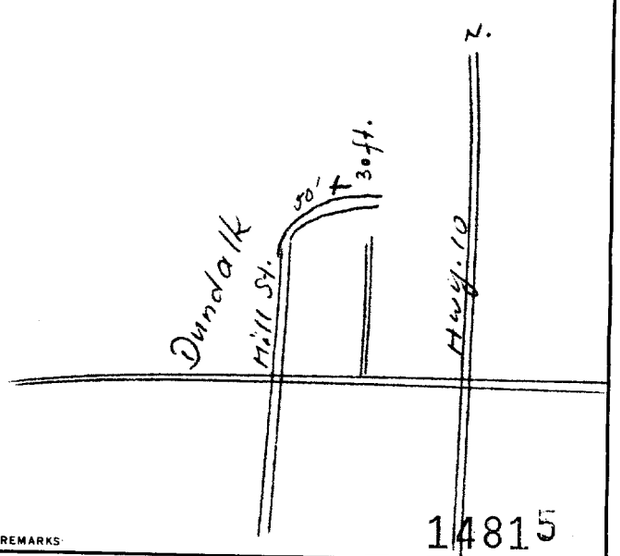
STATIC LEVEL	WATER LEVEL END OF PUMPING	WATER LEVELS DURING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
54 FEET	128 FEET	1 ☐ PUMPING 2 ☒ RECOVERY	93 FEET	128 FEET	128 FEET	128 FEET

IF FLOWING, GIVE RATE	PUMP INTAKE SET AT	WATER AT END OF TEST
GPM	150 FEET	1 ☒ CLEAR 2 ☐ CLOUDY

RECOMMENDED PUMP TYPE	RECOMMENDED PUMP SETTING	RECOMMENDED PUMPING RATE
☐ SHALLOW ☐ DEEP	150 FEET	6 GPM

LOCATION OF WELL

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



DRILLERS REMARKS: 14815

FINAL STATUS OF WELL

1 ☒ WATER SUPPLY 2 ☐ OBSERVATION WELL 3 ☐ TEST HOLE 4 ☐ RECHARGE WELL 8 ☐ ABANDONED, INSUFFICIENT SUPPLY 6 ☐ ABANDONED, POOR QUALITY 7 ☐ UNFINISHED 9 ☐ DEWATERING

WATER USE

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

METHOD OF CONSTRUCTION

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

3813

CONTRACTOR

NAME OF WELL CONTRACTOR: S. Neumann — WELL CONTRACTOR'S LICENCE NUMBER: 3813

ADDRESS: R.R.4 Dundalk Ont.

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 — CONTRACTOR — DATE RECEIVED: OCT 06 1987

DATE OF INSPECTION: 11/9/88 — INSPECTOR

REMARKS: Pitless

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506 (11/86) FORM 9

Ministry of the Environment
Ontario

The Ontario Water Resources Act

WATER WELL RECORD

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

11 | 2512639 | MUNICIP 25012 | CON. SR W | 01

COUNTY OR DISTRICT	TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	CON., BLOCK, TRACT, SURVEY, ETC.	LOT
[redacted]	Proton	Con 1 TSW	229

[redacted] RR# 1 Proton Station N0C 1L0 — DATE COMPLETED: DAY 30 MO 8 YR 94

NG | 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	DEPTH - FEET TO
	Topsoil			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
109	☒ FRESH
133	☒ FRESH

51 CASING & OPEN HOLE RECORD

INSIDE DIAM INCHES	MATERIAL	WALL THICKNESS INCHES	DEPTH - FEET FROM	DEPTH - FEET TO
6	☒ STEEL	.188	+1	104
6	☒ OPEN HOLE		104	138

SCREEN

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

61 PLUGGING & SEALING RECORD

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

71 PUMPING TEST

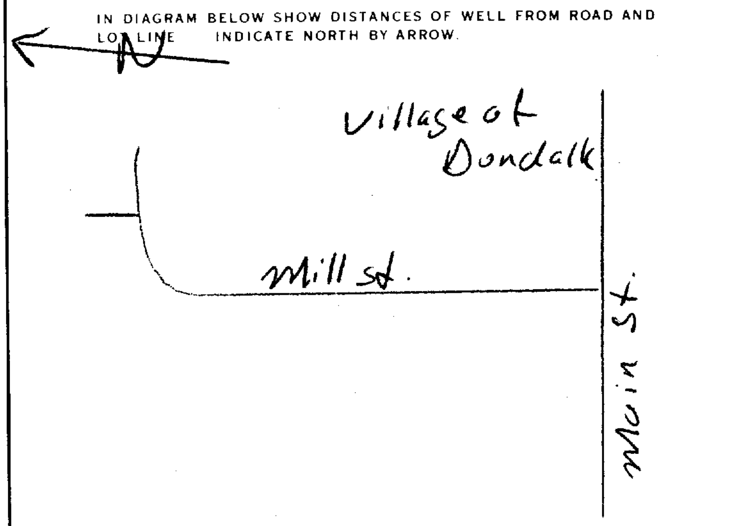
PUMPING TEST METHOD	PUMPING RATE	DURATION OF PUMPING
AIR	7 GPM	1 HOURS

STATIC LEVEL	WATER LEVEL END OF PUMPING	15 MINUTES	30 MINUTES	45 MINUTES	60 MINUTES
56 FEET	FEET	FEET	FEET	FEET	FEET

IF FLOWING, GIVE RATE: GPM
PUMP INTAKE SET AT: FEET
WATER AT END OF TEST: ☒ CLEAR ☐ CLOUDY
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.



131050

DRILLERS REMARKS

FINAL STATUS OF WELL

☒ WATER SUPPLY

WATER USE

☒ DOMESTIC

METHOD OF CONSTRUCTION

☒ ROTARY (AIR)

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: T2130
SIGNATURE OF TECHNICIAN/CONTRACTOR: [signature]
SUBMISSION DATE: DAY 6 MO. 9 YR. 94

OFFICE USE ONLY

DATA SOURCE | CONTRACTOR 2576 | DATE RECEIVED SEP 12 1994
DATE OF INSPECTION | INSPECTOR
REMARKS: CSS.ES

MINISTRY OF THE ENVIRONMENT COPY

FORM NO. 0506 (11/86) FORM 9

Ontario Ministry of the Environment 02-13

The Ontario Water Resources Act
WATER WELL RECORD

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

11 — 2515004 — Municipality 25702 — Con.

County or District	Township/Borough/City/Town/Village	Con	block	tract	survey, etc.	Lot
GREY	TOWN OF DUNDALK/ANTON TWP	CONC	1	SWTSR		230

Owner's surname	First Name	Address	Date completed (day / month / year)
TOWNSHIP OF	SOUTHGATE	RR 1, DUNDALK, ON, N0C 1B0	25 / 03 / 02

21 — UTM: 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	Depth - feet 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

41 WATER RECORD

Water found at - feet	Kind of water
125 / 155	1 Fresh 2 Salty 3 Sulphur 4 Minerals 6 Gas — NOT TESTED
215 / 260	1 Fresh 2 Salty 3 Sulphur 4 Minerals 6 Gas
300 / 310	1 Fresh 2 Salty 3 Sulphur 4 Minerals 6 Gas
25-28	1 Fresh 2 Salty 3 Sulphur 4 Minerals 6 Gas
30-33	1 Fresh 2 Salty 3 Sulphur 4 Minerals 6 Gas

60

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6 1/4	1 [x] Steel 2 Galvanized 3 Concrete 4 Open hole 5 Plastic	.188	+2	105
	1 Steel 2 Galvanized 3 Concrete 4 Open hole 5 Plastic		105	330
	1 Steel 2 Galvanized 3 Concrete 4 Open hole 5 Plastic			

SCREEN

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

61 PLUGGING & SEALING RECORD

[x] Annular space ☐ Abandonment

Depth set at - feet From	Depth set at - feet To	Material and type (Cement grout, bentonite, etc.)
0	105	BENTONITE
18-21	22-25	
26-29	30-33	

71 PUMPING TEST

Pumping test method: 1 ☐ Pump 2 ☐ Bailer — Pumping rate: GPM — Duration of pumping: Hours Mins

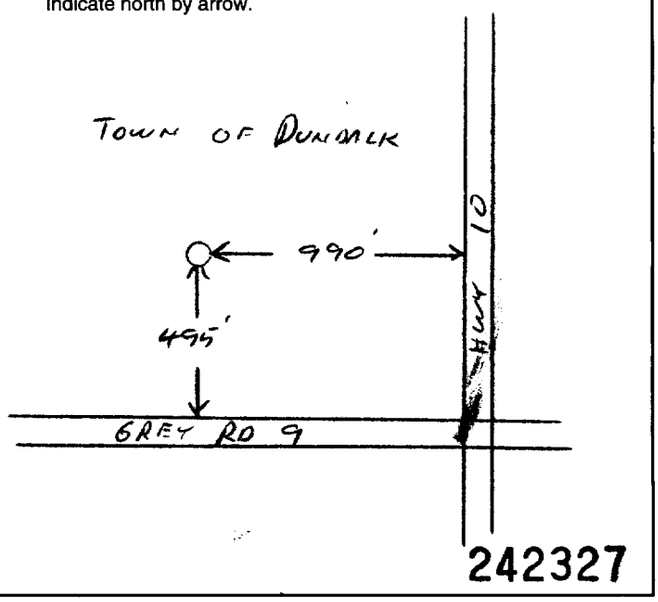
Static level	Water level end of pumping	Water levels during: 1 ☐ Pumping 2 ☐ Recovery			
feet	TESTING BY	15 minutes feet	30 minutes OTHERS feet	45 minutes feet	60 minutes feet

If flowing give rate: GPM — Pump intake set at: feet — Water at end of test: ☐ Clear ☐ Cloudy

Recommended pump type: ☐ Shallow ☐ Deep — Recommended pump setting: feet — Recommended pump rate: GPM

LOCATION OF WELL

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



242327

FINAL STATUS OF WELL

1 [x] Water supply 2 ☐ Observation well 3 [x] Test hole 4 ☐ Recharge well 5 ☐ Abandoned, insufficient supply 6 ☐ Abandoned, poor quality 7 ☐ Abandoned (Other) 8 ☐ Dewatering 9 ☐ Unfinished 10 ☐ Replacement well

WATER USE

1 ☐ Domestic 2 ☐ Stock 3 ☐ Irrigation 4 ☐ Industrial 5 ☐ Commercial 6 [x] Municipal 7 ☐ Public supply 8 ☐ Cooling & air conditioning 9 ☐ Not use 10 ☐ Other

METHOD OF CONSTRUCTION

1 ☐ Cable tool 2 [x] Rotary (conventional) 3 ☐ Rotary (reverse) 4 ☐ Rotary (air) 5 ☐ Air percussion 6 ☐ Boring 7 ☐ Diamond 8 ☐ Jetting 9 ☐ Driving 10 ☐ Digging 11 ☐ Other

Name of Well Contractor	Well Contractor's Licence No.
MEADOWBANK DRILLING SERVICES	6865
Address: RR 1 ELORA ONT N0B 1S0	
Name of Well Technician: Jim BROADFOOT	Well Technician's Licence No.: T0370
Signature of Technician/Contractor	Submission date: day mo yr

MINISTRY USE ONLY

Data source — Contractor: 6865 — Date received: JUN 10 2002

Date of inspection — Inspector

Remarks: CSS.ES2

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0506 (07/00) Front Form 9

Ontario — Ministry of the Environment

02-18

The Ontario Water Resources Act
WATER WELL RECORD

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

11 — 2515005 — Municipality 25702 — Con.

County or District	Township/Borough/City/Town/Village	Con	block	tract	survey, etc.	Lot
GREY	TOWN OF DUNDALK	CON 1	SW	TSR		PART 230

Owner's surname	First Name	Address	Date completed (day / month / year)
TOWNSHIP OF SOUTHGATE		RR 1, DUNDALK, ON, N0C 1B0	22 / 04 / 02

21 — UTM — 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	Depth - feet 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

41 WATER RECORD

Water found at - feet	Kind of water
109 / 125	1 [X] Fresh 2 [ ] Salty 3 [ ] Sulphur 4 [ ] Minerals 6 [ ] Gas
154 / 215	1 [X] Fresh 2 [ ] Salty 3 [ ] Sulphur 4 [ ] Minerals 6 [ ] Gas
260 / 300	1 [X] Fresh 2 [ ] Salty 3 [ ] Sulphur 4 [ ] Minerals 6 [ ] Gas
310	1 [X] Fresh 2 [ ] Salty 3 [ ] Sulphur 4 [ ] Minerals 6 [ ] Gas
	1 [ ] Fresh 2 [ ] Salty 3 [ ] Sulphur 4 [ ] Minerals 6 [ ] Gas

60

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
10 1/4	1 [X] Steel 2 [ ] Galvanized 3 [ ] Concrete 4 [ ] Open hole 5 [ ] Plastic	.250	+2	105
9 7/8	1 [ ] Steel 2 [ ] Galvanized 3 [ ] Concrete 4 [X] Open hole 5 [ ] Plastic		105	330
	1 [ ] Steel 2 [ ] Galvanized 3 [ ] Concrete 4 [ ] Open hole 5 [ ] Plastic			

SCREEN

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

Material and type	Depth at top of screen (feet)

61 PLUGGING & SEALING RECORD

[X] Annular space [ ] Abandonment

Depth set at - feet From	Depth set at - feet To	Material and type (Cement grout, bentonite, etc.)
0	105	BENTONITE

71 PUMPING TEST

Pumping test method: 1 [ ] Pump 2 [ ] Bailer — Pumping rate (GPM) — Duration of pumping (Hours / Mins)

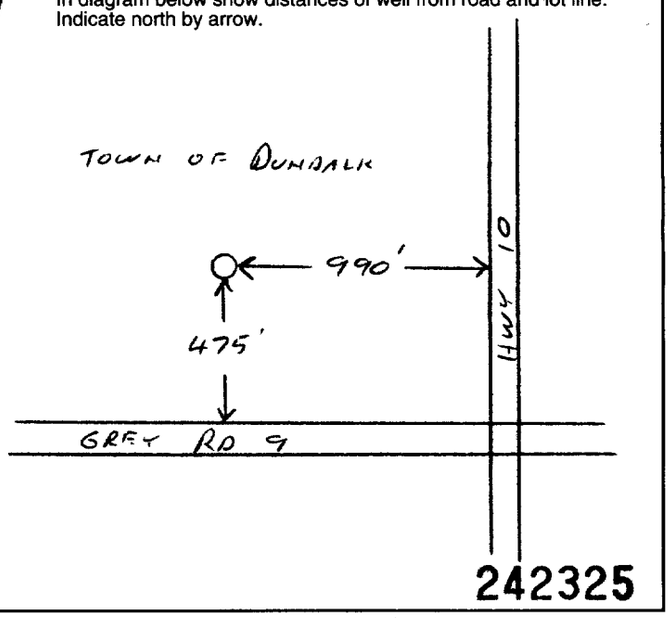
Static level (feet)	Water level end of pumping (feet)	Water levels during: 1 [ ] Pumping 2 [ ] Recovery	15 minutes (feet)	30 minutes (feet)	45 minutes (feet)	60 minutes (feet)

If flowing give rate (GPM) — Pump intake set at (feet) — Water at end of test: [ ] Clear [ ] Cloudy

Recommended pump type: [ ] Shallow [ ] Deep — Recommended pump setting (feet) — Recommended pump rate (GPM)

LOCATION OF WELL

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



242325

FINAL STATUS OF WELL

1 [X] Water supply 2 [ ] Observation well 3 [X] Test hole 4 [ ] Recharge well 5 [ ] Abandoned, insufficient supply 6 [ ] Abandoned, poor quality 7 [ ] Abandoned (Other) 8 [ ] Dewatering 9 [ ] Unfinished 10 [ ] Replacement well

WATER USE

1 [ ] Domestic 2 [ ] Stock 3 [ ] Irrigation 4 [ ] Industrial 5 [ ] Commercial 6 [X] Municipal 7 [ ] Public supply 8 [ ] Cooling & air conditioning 9 [ ] Not use 10 [ ] Other

METHOD OF CONSTRUCTION

1 [ ] Cable tool 2 [X] Rotary (conventional) 3 [ ] Rotary (reverse) 4 [ ] Rotary (air) 5 [ ] Air percussion 6 [ ] Boring 7 [ ] Diamond 8 [ ] Jetting 9 [ ] Driving 10 [ ] Digging 11 [ ] Other

Name of Well Contractor	Well Contractor's Licence No.
MEADOWBANK DRILLING SERVICES	6865
Address: RR 1, EZORA, ON, N0B 1S0	
Name of Well Technician	Well Technician's Licence No.
JIM BRADFOOT	T0370
Signature of Technician/Contractor	Submission date (day / mo / yr)
JB Bradfoot	

MINISTRY USE ONLY

Data source	Contractor	Date received
	6865	JUN 10 2002

Date of inspection	Inspector

Remarks: CSS.ES2

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0506 (07/00) Front Form 9

Ontario **Ministry of the Environment**

The Ontario Water Resources Act
WATER WELL RECORD

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

11 — 2515188 — Municipality 25012 — Con. SR W — 01

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
GREY	PROTON	CON 1 SRW	228

[redacted]

Address

Date completed: 25 (day) 9 (month) 02 (year)

21 — UTM — 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	Depth - feet To
	TOPSOIL			0	1
BRN	CLAY	STONES, GRAVEL		1	97
GREY	LIMESTONE			97	150
BRN	LIMESTONE			150	241

31

32

41 WATER RECORD

Water found at - feet	Kind of water
210	1 [X] Fresh 2 [ ] Salty 3 [ ] Sulphur 4 [ ] Minerals 5 [ ] Gas
230	1 [ ] Fresh 2 [ ] Salty 3 [ ] Sulphur 4 [ ] Minerals 5 [ ] Gas
	1 [ ] Fresh 2 [ ] Salty 3 [ ] Sulphur 4 [ ] Minerals 5 [ ] Gas
	1 [ ] Fresh 2 [ ] Salty 3 [ ] Sulphur 4 [ ] Minerals 5 [ ] Gas
	1 [ ] Fresh 2 [ ] Salty 3 [ ] Sulphur 4 [ ] Minerals 5 [ ] Gas

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	Depth - feet To
6 1/4	1 [X] Steel 2 [ ] Galvanized 3 [ ] Concrete 4 [ ] Open hole 5 [ ] Plastic	.188	+2	99
6	1 [ ] Steel 2 [ ] Galvanized 3 [ ] Concrete 4 [X] Open hole 5 [ ] Plastic		99	241
	1 [ ] Steel 2 [ ] Galvanized 3 [ ] Concrete 4 [ ] Open hole 5 [ ] Plastic			

SCREEN

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

Material and type — Depth at top of screen feet

61 PLUGGING & SEALING RECORD

[X] Annular space [ ] Abandonment

Depth set at - feet From	Depth set at - feet To	Material and type (Cement grout, bentonite, etc.)
0	50	Bentonite Grout

PUMPING TEST

71 — Pumping test method: 1 [ ] Pump 2 [ ] Bailer — A+R

Pumping rate: 5 GPM — Duration of pumping: 1 Hours ... Mins

25 — Water levels during: 1 [X] Pumping 2 [ ] Recovery

Static level	Water level end of pumping	15 minutes	30 minutes	45 minutes	60 minutes
92 feet	173 feet	173 feet	173 feet	173 feet	173 feet

If flowing give rate: ... GPM

Pump intake set at: ... feet

Water at end of test: [X] Clear [ ] Cloudy

Recommended pump type: [ ] Shallow [X] Deep

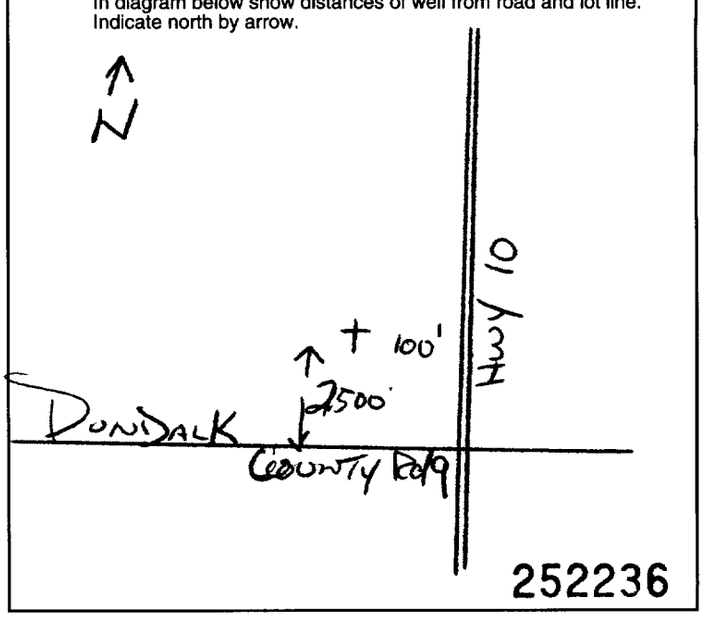
Recommended pump setting: 220 feet

Recommended pump rate: 5 GPM

50-53

LOCATION OF WELL

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



252236

FINAL STATUS OF WELL 54

1 [X] Water supply
2 [ ] Observation well
3 [ ] Test hole
4 [ ] Recharge well
5 [ ] Abandoned, insufficient supply
6 [ ] Abandoned, poor quality
7 [ ] Abandoned (Other)
8 [ ] Dewatering
9 [ ] Unfinished
10 [ ] Replacement well

WATER USE 55-56

1 [X] Domestic
2 [ ] Stock
3 [ ] Irrigation
4 [ ] Industrial
5 [ ] Commercial
6 [ ] Municipal
7 [ ] Public supply
8 [ ] Cooling & air conditioning
9 [ ] Not use
10 [ ] Other

METHOD OF CONSTRUCTION 57

1 [ ] Cable tool
2 [X] Rotary (conventional)
3 [ ] Rotary (reverse)
4 [ ] Rotary (air)
5 [X] Air percussion
6 [ ] Boring
7 [ ] Diamond
8 [ ] Jetting
9 [ ] Driving
10 [ ] Digging
11 [ ] Other

Name of Well Contractor	Well Contractor's Licence No.
NEUMANN WELL DRILLING	7015
Address: RR#4 DUNDALK	
Name of Well Technician: TOM GILLIES	Well Technician's Licence No.: T-1958
Signature of Technician/Contractor	Submission date: day mo yr

MINISTRY USE ONLY

Data source 58	Contractor 59-62	Date received 63-68
	7015	OCT 28 2002
Date of inspection	Inspector	
Remarks		

0506 (07/00) Front Form 9

2 - MINISTRY OF THE ENVIRONMENT COPY

Ontario — Ministry of Environment and Energy

The Ontario Water Resources Act

WATER WELL RECORD

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

11 2515624

Municipality 25012 Con. SR W 02

County or District	Township/Borough/City/Town/Village	Con block tract survey, etc.	Lot
[redacted]	PROTON	Con 2 SRW	227
	Address of Well Location	Date completed	4 day 6 month 03 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
	TOPSOIL			0	1
BRN	CLAY	HARDPAN, STONES		1	116
	LIMESTONE			116	142

31

32

41 WATER RECORD

Water found at - feet	Kind of water
121	[x] Fresh
133	

51 CASING & OPEN HOLE RECORD

Inside diam inches	Material	Wall thickness inches	Depth - feet From	To
6 1/4	[x] Steel	.188	+2	118
6	[x] Open hole		118	142

SCREEN

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

61 PLUGGING & SEALING RECORD

[x] Annular space ☐ Abandonment

Depth set at - feet From	To	Material and type (Cement grout, bentonite, etc.)
0	35	Bentonite GROUT

AIR LIFT 25 GPM

71 PUMPING TEST

Pumping test method: [x] Pump ☐ Bailer
Pumping rate: 12 GPM
Duration of pumping: 2 Hours Mins

Water levels during: [x] Pumping ☐ Recovery

Static level	Water level end of pumping	15 minutes	30 minutes	45 minutes	60 minutes
27 feet	31 feet	31 feet	31 feet	31 feet	31 feet

If flowing give rate GPM | Pump intake set at feet | Water at end of test: [x] Clear ☐ Cloudy

Recommended pump type: ☐ Shallow [x] Deep | Recommended pump setting 60 feet | Recommended pump rate 10-12 GPM

FINAL STATUS OF WELL

[x] Water supply
☐ Observation well
☐ Test hole
☐ Recharge well
☐ Abandoned, insufficient supply
☐ Abandoned, poor quality
☐ Abandoned (Other)
☐ Dewatering
☐ Unfinished
☐ Replacement well

WATER USE

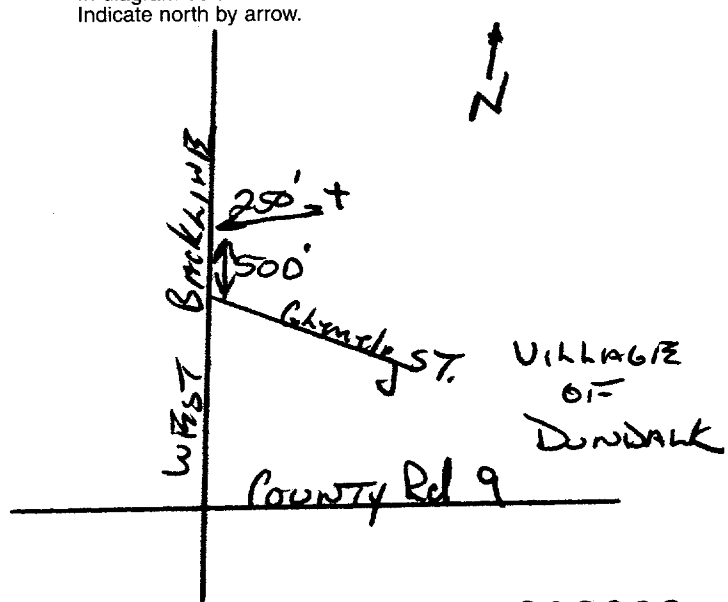
[x] Domestic
☐ Stock
☐ Irrigation
☐ Industrial
☐ Commercial
☐ Municipal
☐ Public supply
☐ Cooling & air conditioning
☐ Not use
☐ Other

METHOD OF CONSTRUCTION

☐ Cable tool
[x] Rotary (conventional)
☐ Rotary (reverse)
☐ Rotary (air)
[x] Air percussion
☐ Boring
☐ Diamond
☐ Jetting
☐ Driving
☐ Digging
☐ Other

LOCATION OF WELL

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



262208

Name of Well Contractor: NEUMANN WELL DRILLING
Well Contractor's Licence No.: 7015
Address: RR#4 DUNDALK
Name of Well Technician: Tom GILLIES
Well Technician's Licence No.: T-1958
Signature of Technician/Contractor: [signature]
Submission date: day mo yr

MINISTRY USE ONLY
Data source | Contractor 7015 | Date received JUL 16 2003
Date of inspection | Inspector
Remarks: CSS.ES3

2 - MINISTRY OF ENVIRONMENT AND ENERGY COPY

0506 (06/02) Front Form 9

Ontario Ministry of the Environment

Well Tag Number (Place Sticker and/or Print Number below) A027686

Amec # 050626 June 8/05

Well Record

Regulation 903 Ontario Water Resources Act

[redacted]

page ___ of ___

Instructions for Completing Form

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- **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

Well Owner's Information and Location of Well Information

[redacted]

Address of Well Location (County/District/Municipality) | Township | Lot | Concession

RR#/Street Number/Name: 185 Proton St. W. | City/Town/Village: Dundalk | Site/Compartment/Block/Tract etc.

GPS Reading: NAD 83 | Zone 17 | Easting 548212 | Northing 4890953 | Unit Make/Model: Magellan | Mode of Operation: ☐ Undifferentiated ☑ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

General Colour	Most common material	Other Materials	General Description	Depth From	Depth To (Metres)
Grey	gravel			0	.11
brown	sand	gravel		.11	.9
brown	sand	silt		.9	2.1
light brown	silt	sand	Rocky	2.1	6

Hole Diameter

Depth From	Depth To (Metres)	Diameter (Centimetres)
0	6.	21

Water Record

Water found at ___ Metres / Kind of Water

1.5 m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other: ___

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

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

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

Chlorinated ☐ Yes ☐ No

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Depth To (Metres)
Casing				
5	☐ Steel ☐ Fibreglass ☑ Plastic ☐ Concrete ☐ Galvanized	.7	0	1.2
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam 6.4	☐ Steel ☐ Fibreglass ☑ Plastic ☐ Concrete ☐ Galvanized	Slot No. 10	1.2	6
No Casing or Screen				
	☐ Open hole			

Test of Well Yield

Pumping test method	Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery 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. ☐ Shallow ☐ Deep	4		4	
Recommended pump depth. ___metres	5		5	
Recommended pump rate. (litres/min)	10		10	
	15		15	
If flowing give rate - (litres/min)	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	Depth set at - Metres To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0	.15	Concrete	
.15	1.1	bentonite	

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: Geo-Environmental Drilling | Well Contractor's Licence No.: 6607

Business Address (street name, number, city etc.): 340 Market Dr. Milton

Name of Well Technician (last name, first name): Hails, Ryan | Well Technician's Licence No.: T3212

Signature of Technician/Contractor: X [signature] | Date Submitted: 2005 06 09

Location of Well

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

see map

Audit No. Z 28263 | Date Well Completed: 2005 06 09

Was the well owner's information package delivered? ☐ Yes ☐ No | Date Delivered

Ministry Use Only

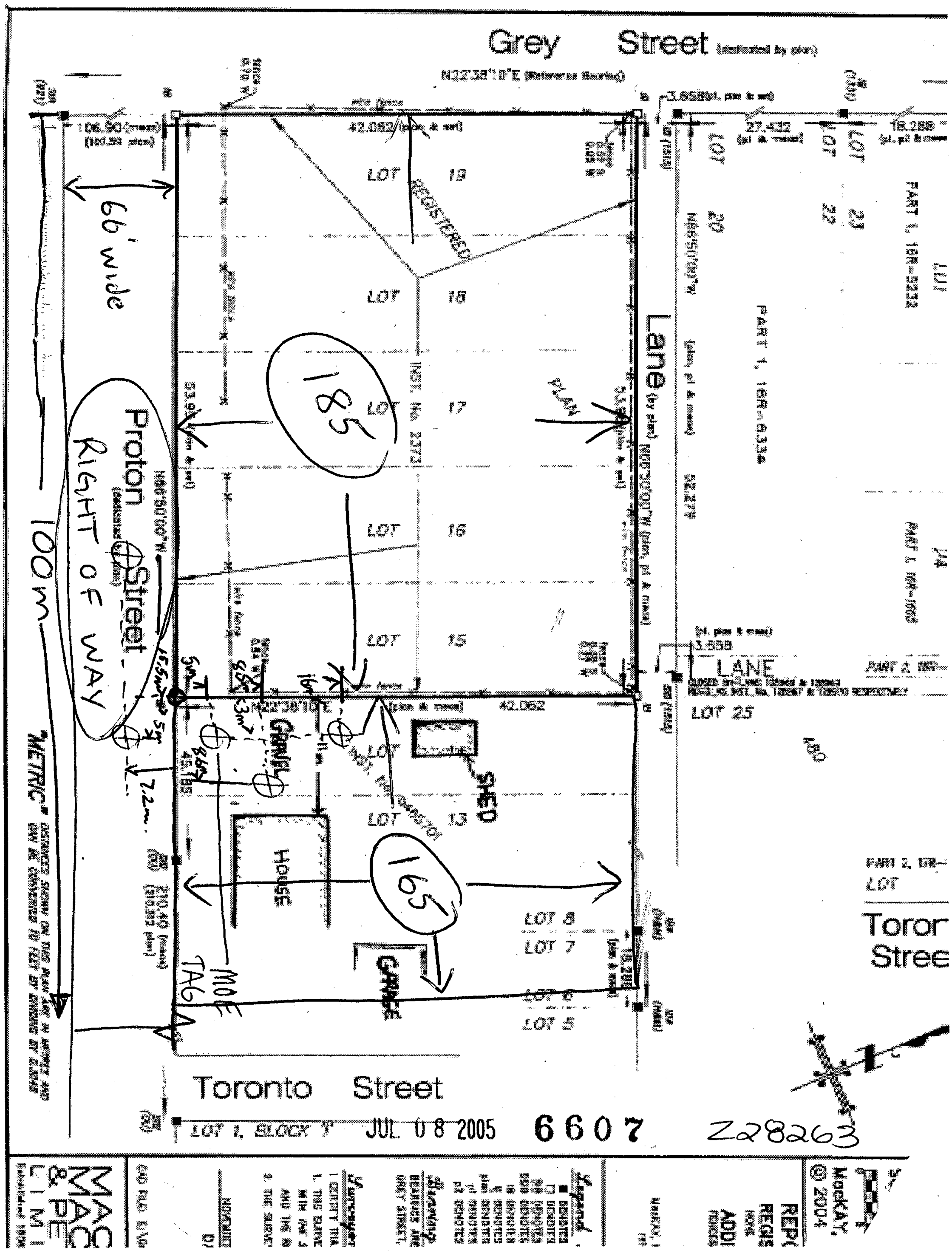
Data Source | Contractor 6607

Date Received JUL 08 2005 | Date of Inspection

Remarks | Well Record Number

0506E (09/03) Contractor's Copy ☐ Ministry's Copy ☐ Well Owner's Copy ☐

Cette formule est disponible en français


Grey Street (dedicated by plan)
N22°38'10"E (Reference Bearing)
42.062 (plan & set)
LOT 19
LOT 18
LOT 17
LOT 16
LOT 15
LOT 13
LOT 8
LOT 7
LOT 6
LOT 5
LOT 25
REGISTERED PLAN
INST. No. 2373
185
165
66' wide
Proton Street (dedicated by plan)
RIGHT OF WAY
100m
N66°50'00"W
Lane (by plan)
N66°50'00"W (plan, pl & meas)
LANE
3.658
27.432
18.288
PART 1, 16R-6334
PART 1, 16R-5232
LOT 20
LOT 21
LOT 22
LOT 23
N22°38'10"E (plan & meas) 42.062
GARAGE
SHED
HOUSE
GARAGE
MOE TAG
7.2m
"METRIC" DISTANCES SHOWN ON THIS PLAN ARE IN METRES AND CAN BE CONVERTED TO FEET BY DIVIDING BY 0.3048
Toronto Street
LOT 1, BLOCK 'F'
JUL 0 8 2005
6607
Z28263
MacKAY, © 2004

Ontario Ministry of the Environment

Well Tag (Number below) A 005365

A 005365

Well Record

Regulation 903 Ontario Water Resources Act

page 1 of 1

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- Please print clearly in blue or black ink only.

Ministry Use Only

MUN | CON | LOT

Well Owner's Information and Location of Well Information

[redacted]

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

Township: DUNDALK

Lot | Concession

RR#/Street Number/Name

City/Town/Village: TOWNSHIP SOUTHGATE

Site/Compartment/Block/Tract etc.: COUNTY OF GREY

GPS Reading | NAD: 83 | Zone: 17 | Easting: 548228 | Northing: 4690907

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	Depth To (Metres)
Black	topsoil	sand	Loose	0	.3
Brown	silt	Cobbles, Sand	Dense	.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:
- ___ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:

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

Chlorinated ☐ Yes ☐ No

Construction Record

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Depth To (Metres)
Casing				
.5	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	SCH40	0	1.52.
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
Screen				
Outside diam		Slot No.		
.6	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized	10	4.57	1.52
No Casing or Screen				
	☐ Open hole			

Test of Well Yield

Pumping test method	Draw Down Time min	Draw Down Water Level Metres	Recovery Time min	Recovery 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. ☐ Shallow ☐ 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	.3	Cement	
.3	1.0	Bentonite Chips	

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.

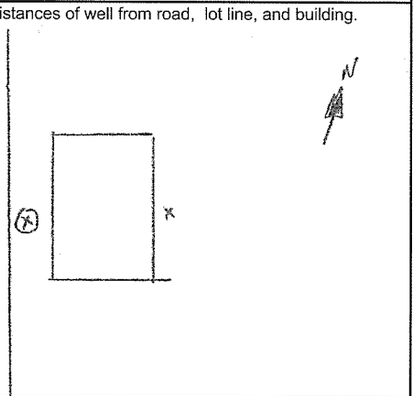
Business Address (street name, number, city etc.): 2160 HWY #7 CONCORD

Name of Well Technician (last name, first name): MONETTE CHRIS | Well Technician's Licence No.: T685

Signature of Technician/Contractor: X [signature] | Date Submitted: YYYY 2006 MM 11 DD 30

Location of Well

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



Audit No. Z 46561

Date Well Completed: YYYY 2006 MM 11 DD 30

Was the well owner's information package delivered? ☐ Yes ☒ No

Date Delivered: YYYY MM DD

Ministry Use Only

Data Source | Contractor: 6032

Date Received: YYYY MM DD: FEB 26 2007 | Date of Inspection: YYYY MM DD

Remarks | Well Record Number

0506E (09/03)

Contractor's Copy ☐ Ministry's Copy ☒ Well Owner's Copy ☐

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Ontario Ministry of the Environment

Well Tag Number (Place sticker and print number below)
A 047429
A047429

Well Record
Regulation 903 Ontario Water Resources Act

page 1 of 1

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- Please print clearly in blue or black ink only.

Ministry Use Only
MUN | CON | LOT

Well Owner's Information and Location of Well Information

First Name	Last Name	Mailing Address (Street Number/Name, RR, Lot, Concession)
IMPERIAL	OIL	90 WYNFORD DRIVE

County/District/Municipality	Township/City/Town/Village	Province	Postal Code	Telephone Number (include area code)
	TORONTO	Ontario		416441-7866

Address of Well Location (County/District/Municipality)	Township	Lot	Concession

RR#/Street Number/Name	City/Town/Village	Site/Compartment/Block/Tract etc.
185 PROTON ST	DUNDALK	

GPS Reading: NAD 83 | Zone 17 | Easting 0548236 | Northing 4890905 | Unit Make/Model GARMIN eTREX | Mode of Operation: ☒ Undifferentiated ☐ Averaged ☐ Differentiated, specify

Log of Overburden and Bedrock Materials (see instructions)

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

Hole Diameter

Depth From	Depth To (Metres)	Diameter (Centimetres)
0	4.3M	20.32cm

Water Record

Water found at ___ Metres / Kind of Water

- ___ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:
- ___ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:
- ___ m ☐ Fresh ☐ Sulphur ☐ Gas ☐ Salty ☐ Minerals ☐ Other:

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

Chlorinated ☐ Yes ☐ No

Construction Record

Casing

Inside diam centimetres	Material	Wall thickness centimetres	Depth From	Depth To (Metres)
5.1cm	☐ Steel ☐ Fibreglass ☒ Plastic ☐ Concrete ☐ Galvanized	0.48cm	0	1.2m
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			
	☐ Steel ☐ Fibreglass ☐ Plastic ☐ Concrete ☐ Galvanized			

Screen

Outside diam	Material	Slot No.	Depth From	Depth To (Metres)
6.0cm	☐ Steel ☐ Fibreglass ☒ Plastic ☐ Concrete ☐ Galvanized	10	1.2m	4.3M

No Casing or Screen

☐ Open hole

Test of Well Yield

Pumping test method	Draw Down Time (min)	Draw Down Water Level (Metres)	Recovery Time (min)	Recovery 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. ☐ Shallow ☐ Deep	4		4	
Recommended pump depth. ___metres	5		5	
Recommended pump rate. (litres/min)	10		10	
	15		15	
If flowing give rate - (litres/min)	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	Depth set at - Metres To	Material and type (bentonite slurry, neat cement slurry) etc.	Volume Placed (cubic metres)
0	1	HOLE PLUG	0.02976

Method of Construction

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

Water Use

☐ Domestic ☐ Industrial ☐ Public Supply ☒ Other TESTING
☐ 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	Well Contractor's Licence No.
KODIAK ENVIRONMENTAL	6988

Business Address (street name, number, city etc.): 871 EQUESTRIAN CT. OAKVILLE, ON.

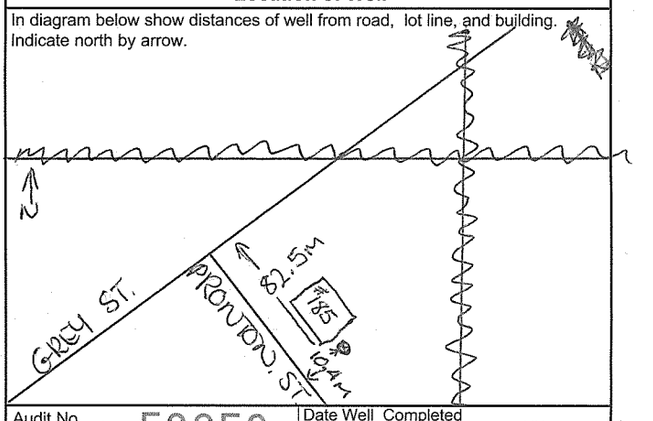
Name of Well Technician (last name, first name)	Well Technician's Licence No.
RITCEY DOUG	T-2656

Signature of Technician/Contractor: X

Date Submitted: 2007 / 10 / 24 (YYYY MM DD)

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: 2007 / 04 / 07 (YYYY MM DD)

Was the well owner's information package delivered? ☐ Yes ☒ No

Date Delivered (YYYY MM DD)

Ministry Use Only

Data Source | Contractor 6988

Date Received: SEP 10 2007 (YYYY MM DD) | Date of Inspection (YYYY MM DD)

Remarks | Well Record Number

0506E (09/03) Contractor's Copy ☐ Ministry's Copy ☒ Well Owner's Copy ☐

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Ontario — Ministry of the Environment

Well Tag No. *(Place Sticker and/or Print Below)*
DECOMMISSION
NO TAG PRESENT

Well Record

Regulation 903 Ontario Water Resources Act

Measurements recorded in: [X] Metric [ ] Imperial

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	
	IMPERIAL OIL		[ ] Well Constructed by Well Owner

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
111 ST. CLAIR AVENUE W.	TORONTO	ONTARIO	M5W1K3	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
165 PROTON STREET NORTH	PROTON	229	RANGE 2W

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

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	548200	4890909		

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
			- 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) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
0.0	0.2	CONCRETE	
0.2	6.1	BENSEAL	
	6.1	EOM	

Method of Construction

[ ] Cable Tool [ ] Diamond
[ ] Rotary (Conventional) [ ] Jetting
[ ] Rotary (Reverse) [ ] Driving
[ ] Boring [ ] Digging
[ ] Air percussion
[ ] Other, *specify*

Well Use

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

Construction Record - Casing

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
5.0	PVC		0.0	6.0

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	Depth (m/ft) To
6.3	PVC		5.0	6.1

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
[X] Abandoned, other, *specify*
[ ] Other, *specify*

Water Details

Water found at Depth (m/ft)	Gas	Kind of Water	Other, specify
1.2	[ ]	[X] Fresh [ ] Untested	
	[ ]	[ ] Fresh [ ] Untested	
	[ ]	[ ] Fresh [ ] Untested	

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)

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)*

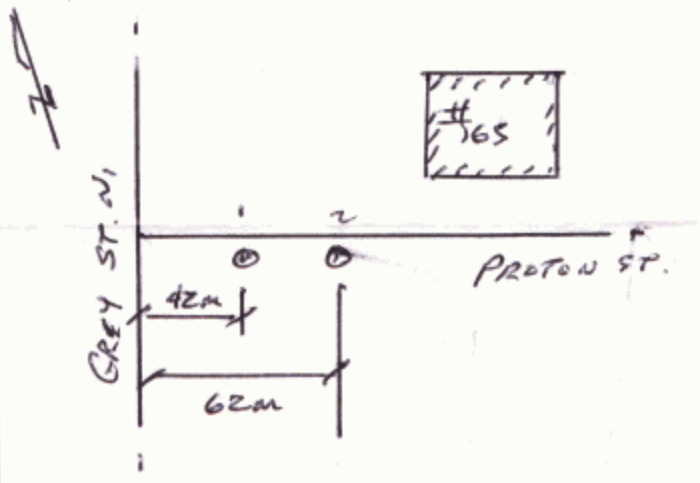
Well production *(l/min / GPM)*

Disinfected? [ ] Yes [ ] No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
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	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:
MAP ATTACHED

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
SONIC SOIL SAMPLING INC.	7147

Business Address (Street Number/Name)	Municipality
668 MILLWAY AVENUE	YORK

Province	Postal Code	Business E-mail Address
ONTARIO	L4K 3V2	sonic@sonicsoil.com

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
9056600501	ARCHIBALD, ALAN

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
2881	per Sec	2008/12/05

Well owner's information package delivered	Date Package Delivered	Date Work Completed
[ ] Yes [X] No		2008/12/25

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Audit No. Z 85200
DEC 17 2008
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Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. *(Place Sticker and/or Print Below)*: NO TAG FOUND

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	Imperial Oil Ltd		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
90 Wynford Drive	Toronto	Ont	M3C1K5	4164417862

Well Location

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

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

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	543260	4890289		

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
Hole No	EASTING	NORTHING	SEALANT		
1	17/543260	4890289	Bentonite	0'	15'
2	17/543263	4890285	Bentonite	0'	15'

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☐ Air percussion ☐ Other, *specify*

Well Use

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

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

Construction Record - Screen

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

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*

Water Details

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

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)

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)

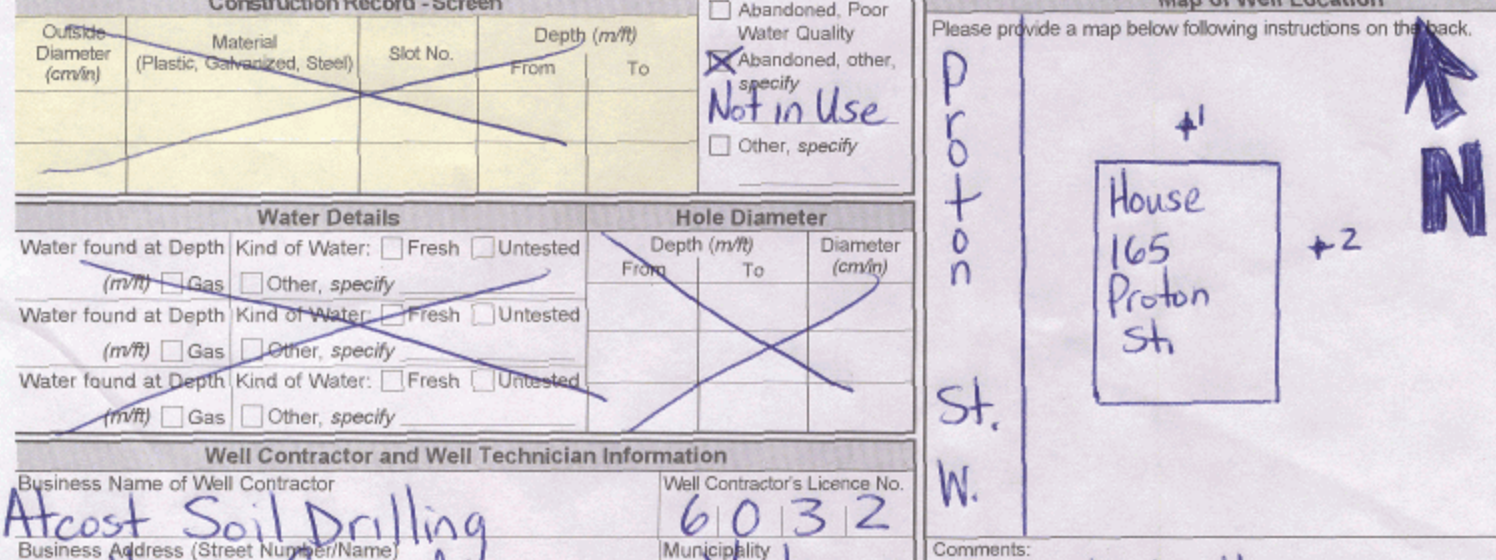
Well production (l/min / GPM)

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
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	

Map of Well Location

Please provide a map below following instructions on the back.



Comments: Consultant Hazco

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
Atcost Soil Drilling	6032

Business Address (Street Number/Name)	Municipality
2160 Hwy 7 Concord	York

Province	Postal Code	Business E-mail Address
Ont	L4K1W6	

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
9056691253	Green Wayne

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
	Wayne Green	2010/11/09

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☒ No		2010/09/02

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Audit No. z121173

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Measurements recorded in: ☐ Metric ☑ Imperial

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

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
	IMPERIAL OIL LTD		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
90 WYNFORD DR	TORONTO	ONT	M3C1K5	4164417862

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
165 PROTON ST. W.	GREY		

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

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	543264	4890283		

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
		1) DECOM			
(1)			PULL 2 INNER PLASTIC PIPES, CHLORINATE, BACK FILL 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	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
		BENTONITE CHIPS (5) DECOM	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify*

DECOM

Well Use

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

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
	DECOM			

Construction Record - Screen

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

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 USED
☐ Other, *specify*

Water Details

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

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)

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)

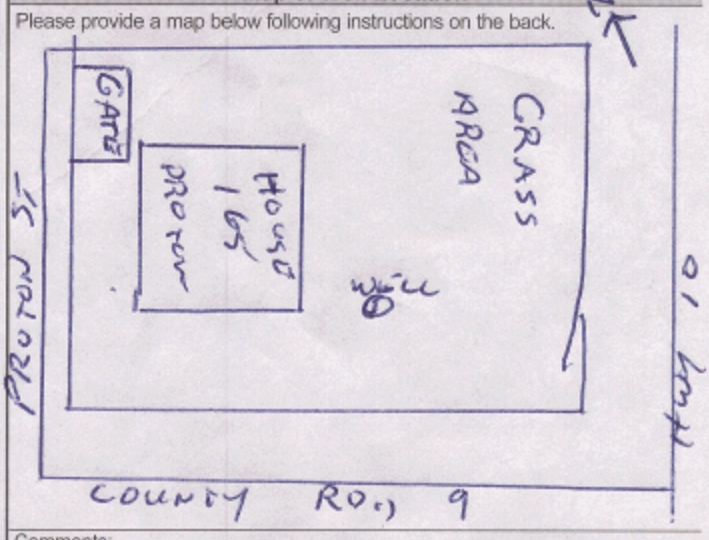
Well production (l/min / GPM)

Disinfected? ☑ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
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	

Map of Well Location

Please provide a map below following instructions on the back.



Comments: HARCO 10A 202

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
ATCOST DRILLING	6032

Business Address (Street Number/Name)	Municipality
2160 HWY 7 CONCORD	VAUGHAN

Province	Postal Code	Business E-mail Address
ONT	L4K1W6	info@atcostdrilling.com

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)
9056691253	TRUSCOTT ORLA

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
7394	O. Truscott	20100920

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☑ No		20100920

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Audit No. Z108898

DEC 03 2010

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A117947

Well Record

Regulation 903 Ontario Water Resources Act

Measurements recorded in: ☐ Metric ☐ Imperial

Well Tag No. *(Place Sticker and)* A 117947

Page ____ of ____

Well Owner's Information

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

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. *(inc. area code)*
90 Wynford Drive	Toronto	Ont	M3C 1K5	

Well Location

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

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

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	561586	4830612		

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	Fill	Sandy	moist	0	8
Brown	Cobble	Till	dry	8	15

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
15	8	Sand	
8	1	Bentonite	
1	0	Sand / Flushmount / Concrete	

Method of Construction

☐ Cable Tool ☐ Diamond
☑ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify*

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☑ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

Construction Record - Casing

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
2	Plastic	40	10	0

Construction Record - Screen

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

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*

Water Details

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

Hole Diameter

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

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)

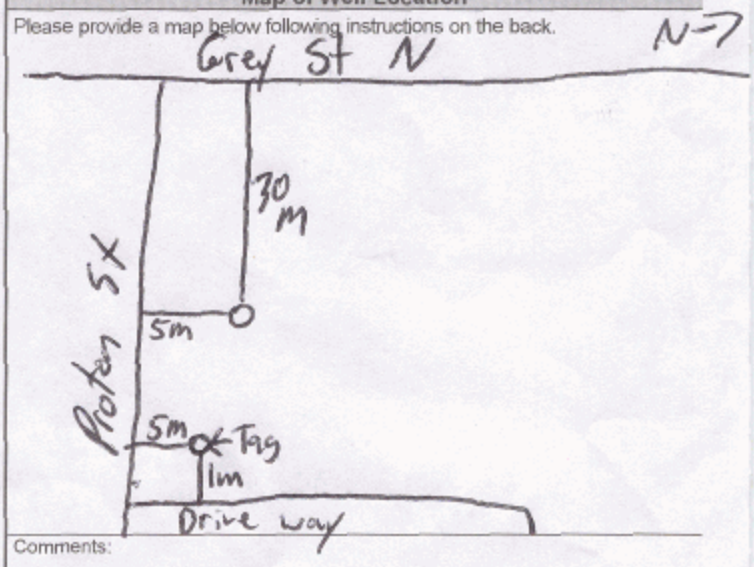
Well production (l/min / GPM)

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
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	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

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

Business Address (Street Number/Name)	Municipality	Province	Postal Code	Business E-mail Address
6525 Northam Drive	Mississauga	ON	L4V 1J2	Jason@Profiledrilling.com

Bus. Telephone No. *(inc. area code)*	Name of Well Technician (Last Name, First Name)	Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
4166506444	Slocki, Jason	2978		2011 07 29

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☐ No	Y Y Y Y M M D D	2011 06 29

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Audit No. z133646

Received AUG 09 2011

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Measurements recorded in: ☒ Metric ☐ Imperial

Well Tag No. **A 089996**

A089996

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
772418	PROTON	220	1

County/District/Municipality	City/Town/Village	Province	Postal Code
GREY	DUNDALK	Ontario	N0C1B0

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	547578	4892878		

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
	TOP SOIL			0	.3
BROWN	CLAY	STONES & ROCKS		.3	15.9
GREY	CLAY	STONES		15.9	29.6
GREY/BROWN	LIMESTONE		INTERMIXED	29.6	32.3

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
0	13	BENTONITE SLURRY	.3

Method of Construction

☐ Cable Tool ☐ Diamond ☒ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☐ Air percussion ☐ Other, *specify*

Well Use

☐ Public ☐ Commercial ☐ Not used ☒ Domestic ☐ Municipal ☐ Dewatering ☒ Livestock ☐ Test Hole ☐ Monitoring ☐ Irrigation ☐ Cooling & Air Conditioning ☐ Industrial ☐ Other, *specify*

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
16.0	STEEL	.5	+.8	30.7
			30.7	32.3

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*

Construction Record - Screen

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

Water Details

Water found at Depth (m/ft)	Kind of Water	
32	☐ Fresh ☒ Untested	☐ Gas ☐ Other, *specify*
	☐ Fresh ☐ Untested	☐ Gas ☐ Other, *specify*
	☐ Fresh ☐ Untested	☐ Gas ☐ Other, *specify*

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	6.4	25.0
6.4	30.7	20.0
30.7	32.3	15.6

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) 12.2

Pumping rate (l/min / GPM) 45

Duration of pumping 1 hrs + 0 min

Final water level end of pumping (m/ft) 9.16

If flowing give rate (l/min / GPM)

Recommended pump depth (m/ft) 12.2 m (40')

Recommended pump rate (l/min / GPM) 40L (10GPM)

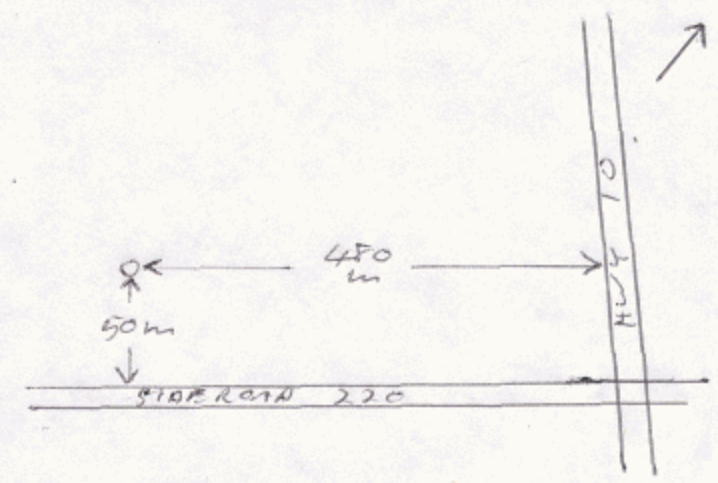
Well production (l/min / GPM)

Disinfected? ☒ Yes ☐ No

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
Static Level	7.28		9.16
1	8.18	1	8.18
2	8.36	2	8.08
3	8.46	3	8.02
4	8.56	4	7.95
5	8.62	5	7.92
10	8.79	10	7.75
15	8.89	15	7.68
20	8.96	20	7.62
25	8.99	25	7.57
30	9.02	30	7.53
40	9.10	40	7.49
50	9.12	50	7.46
60	9.16	60	7.44

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
WELL INITIATIVES	7221

Business Address (Street Number/Name)	Municipality
15 TOWNLINE	ORANGEVILLE

Province	Postal Code	Business E-mail Address
ONT	N0B1S0	

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
5198468289	BROADFOOT JIM

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
0370	Jim Broadfoot	2011 07 12

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered: Y Y Y Y M M D D

Date Work Completed: 2011 07 20

Ministry Use Only

Audit No. z118780

Received AUG 19 2011

0506E (2007/12)

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

Tag #: A166231

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

Measurements recorded in: ☐ Metric ☒ Imperial

Well Owner's Information

First Name	Last Name / Organization	E-ma[redacted]
WHITE ROSE PARK DIV C/O 2127107 ONTARIO INC		[redacted]

Mailing Address (Street Number/Name)	Municipality	Provi[redacted]
138 KALE CRESCENT	MAPLE	[redacted]

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
~~LOT 227~~, TSHP of SOUTHGATE, former tshp of PROTON		227	RANGE 2W

County/District/Municipality	City/Town/Village	Province	Postal Code
COUNTY of GREY	DUNDALK	Ontario	N0C 1B0

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 83	17	~~544418~~	~~4887450~~	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	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	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
20	8	Sand	
8	0	Bentonite	

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

Draw Down Time (min)	Water Level (m/ft)	Recovery Time (min)	Water Level (m/ft)
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	

Method of Construction

☐ Cable Tool ☐ Diamond
☒ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify*

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☒ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

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
2	Plastic		+2.5	10

Construction Record - Screen

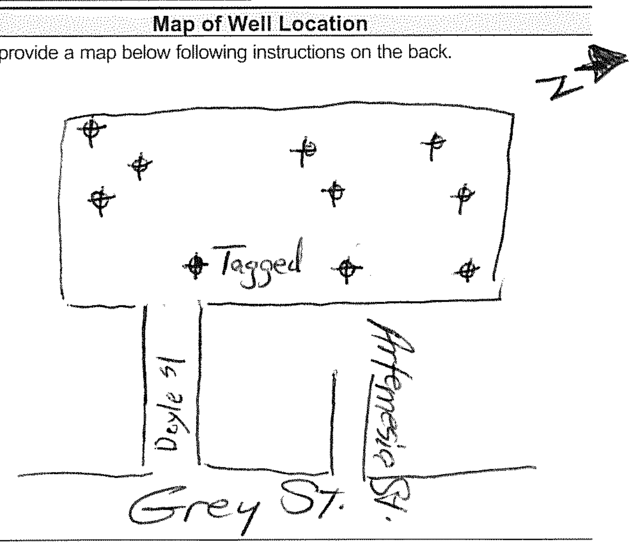
Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
2	Plastic		10	20

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*

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Water Details

Water found at Depth	Kind of Water
5 (m/ft) ☐ Gas	☒ Fresh ☐ Untested ☐ Other, *specify*
(m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*
(m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	20	6

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
LONDON SOIL TEST LTD	7190

Business Address (Street Number/Name)	Municipality
R.R. 6	DUNDALK

Province	Postal Code	Business E-mail Address
ON	N0C 1B0	info@londonsoil.com

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
5194555777	Ross Ryan

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
3576	[signature]	2014/12/15

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered: Y Y Y Y M M D D

Date Work Completed: 2014/12/03

Ministry Use Only

Audit No. Z186058

Received FEB 09 2015

Ministry's Copy

Ontario (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: 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

Ontario (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: 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

Ontario (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: 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

Ontario

Ministry of the Environment and Climate Change

Well Tag No. (Place Sticker and/or Print Below)
Tag#: A 213692
TAG # A213692

Well Record

Regulation 903 Ontario Water Resources Act

Measurements recorded in: ☐ Metric ☐ Imperial

Page _____ of _____

Well Owner's Information

First Name	Last Name / Organization	E-mail Address	☐ Well Constructed by Well Owner
J.T.	EXCAVATING		

Mailing Address (Street Number/Name)	Municipality	Province	Postal Code	Telephone No. (inc. area code)
DURHAM		ONTARIO	N0G1R0	

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
231 GLENELG STREET	PROTON		

County/District/Municipality	City/Town/Village	Province	Postal Code
	DUNDALK	Ontario	N0C1B0

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 8 3	17	514791 25	4819017 411		

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
	Sealed off 5 INCH WELL 35 FEET Deep				

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
35	-12FT	3/8 Holeplug	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify* _____

Well Use

☐ Public ☐ Commercial ☑ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* _____

Construction Record - Casing

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

Construction Record - Screen

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

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 USED
☐ Other, *specify*

Water Details

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

Hole Diameter

Depth (m/ft) From	Depth (m/ft) To	Diameter (cm/in)

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)

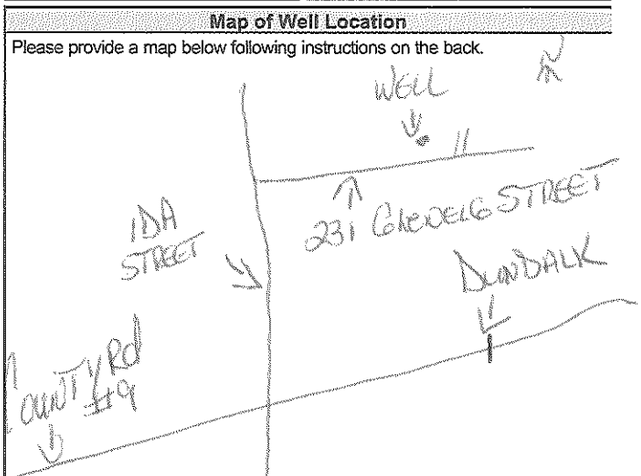
Well production (l/min / GPM)

Disinfected? ☐ Yes ☐ No

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
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	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
KAUFMAN INVESTMENTS LTD	6613

Business Address (Street Number/Name)	Municipality
314023 HWY #6 RR#1 DURHAM	WESTGREY

Province	Postal Code	Business E-mail Address
ONTARIO	N0G1R0	

Bus. Telephone No. (inc. area code)	Name of Well Technician (Last Name, First Name)
519 369 3344	KAUFMAN, PAUL

Well Technician's Licence No.	Signature of Technician and/or Contractor	Date Submitted
1912	Paul Kaufman	2018/02/13

Well owner's information package delivered	Date Package Delivered	Date Work Completed
☐ Yes ☑ No	2017/03/07	2017/03/07

Ministry Use Only
Audit No. Z243696
Received FEB 13 2018

0506E (2014/11)

Ministry's Copy

7331881

Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: ☐ Metric ☒ Imperial

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

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

[redacted]

Well Location

Address of Well Location (Street Number/Name)	Township	Lot	Concession
END OF BRADLEY ST		PT LOT 221	2 SWTSR
County/District/Municipality	**City/Town/Village**	**Province**	**Postal Code**
Grey County	DUNDALK	Ontario	
UTM Coordinates NAD 8 3 — Zone 17 — Easting 548151 — Northing 4891468	**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
Black	Peat	Some Silt	Saturated, Swampy	0	1
Grey	Silt	Some Sand	Saturated, Water bearing	1	15

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
15	8	SILICA SAND	
8	0	HYDRATED Bentonite	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify* AUGER

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☑ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

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
2"	PVC	3/10	10	+3
4X4	Steel	1/8"	-1	+3

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
2"	PVC	.010	15	10

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*

Water Details

Water found at Depth (m/ft)	Gas	Kind of Water	
2	☐	☐ Fresh ☐ Untested ☐ Other, *specify*	
	☐	☐ Fresh ☐ Untested ☐ Other, *specify*	
	☐	☐ Fresh ☐ Untested ☐ Other, *specify*	

Hole Diameter

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

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

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	2"		
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	

Map of Well Location

Please provide a map below following instructions on the back.

SEE ATTACHED MAP

Comments: STEEL STICK UP CASING

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. 7190

Municipality

Bus.Telephone No. *(inc. area code)*

Name of Well Technician (Last Name, First Name) WATTS MIKE

Well Technician's Licence No. 7190

Signature of Technician and/or Contractor

Date Submitted 2019/04/05

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered

Date Work Completed 2019/04/05

Ministry Use Only

Audit No. Z305990

Received APR 23 2019

0506E (2014/11) Ministry's Copy


A264297
Z305990
Legend
MW
EMRB - RECEIVED
APR 23 2019
A264297
A264296
A264295
A264294
A264293
A264292
Wilson Crescent
Highpoint St
Pine Ct
Bradley St
Grey St N
Google Earth
© 2018 Google
Image © 2019 DigitalGlobe
200 m
N

7331882

Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. *(Place Sticker and/or Print Below)* A264292

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

[redacted]

2570970 ONTARIO INC.

Address of Well Location (Street Number/Name)	Township	Lot	Concession
Vacant property - End of Bradley St.		PT LOT 227	2 SWTSR
County/District/Municipality	**City/Town/Village**	**Province**	**Postal Code**
Grey County		Ontario	
UTM Coordinates Zone / Easting / Northing	**Municipal Plan and Sublot Number**	**Other**	
NAD 8 3 | 17 | 480152 | 4891270		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
Brown	Silt	Some Sand	Soft	0	10
Brown	Silt	Gravel & Sand	very Dense	10	20

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m^3/ft^3)
20	8	SILICA SAND	
8	0	HYDRATED Bentonite	

Method of Construction

☐ Cable Tool ☐ Diamond ☐ Rotary (Conventional) ☐ Jetting ☐ Rotary (Reverse) ☐ Driving ☐ Boring ☐ Digging ☐ Air percussion ☒ Other, *specify* Auger

Well Use

☐ Public ☐ Commercial ☐ Not used ☐ Domestic ☐ Municipal ☐ Dewatering ☐ Livestock ☐ Test Hole ☒ Monitoring ☐ Irrigation ☐ Cooling & Air Conditioning ☐ Industrial ☐ Other, *specify*

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
2"	PVC	3/16"	10	+3
4x4	Steel	1/8"	-1	+3

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*

Construction Record - Screen

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

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

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
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	

Water Details

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

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	20'	8"

Map of Well Location

Please provide a map below following instructions on the back.

SEE ATTACHED MAP.

Comments: STEEL STICK UP CASING

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. 7190

Municipality

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

Well Technician's Licence No. [redacted] | Signature of Technician and/or Contractor | Date Submitted: 2019/04/25

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered

Date Work Completed 2019/04/25

Ministry Use Only

Audit No. Z305986

Received APR 23 2019

0506E (2014/11) Ministry's Copy


A264292
Z305986
EMRB - RECEIVED
APR 23 2019
Legend
MW
A264297
A264296
A264295
A264294
A264293
A264292
Wilson Crescent
Highpoint St
Pine Ct
Bradley St
Grey St N
N
200 m
Google Earth
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7331883

Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: ☐ Metric ☒ Imperial

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

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

[redacted]

2570970 ONTARIO INC.

Address of Well Location (Street Number/Name)	Township	Lot	Concession
END OF BRADLEY ST		PT LOT 221	2 SWTSR
County/District/Municipality	**City/Town/Village**	**Province**	**Postal Code**
Grey County.	DUNDALK	Ontario	
UTM Coordinates Zone	Easting	Northing	**Municipal Plan and Sublot Number**	**Other**
NAD 8 3	17 548 040	4 891 347		

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		Very Silty Soil	0	5
Brown	silt	Gravel & Sand	water bearing gravel material	5	15

Annular Space

Depth Set at (m/ft) From	To	Type of Sealant Used (Material and Type)	Volume Placed (m³/ft³)
15	8	SILICA SAND	
8	0	HYDRATED Bentonite	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☒ Other, *specify* AUGER

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☑ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

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
2"	PVC	3/16"	10	+3

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*

Construction Record - Screen

Outside Diameter (cm/in)	Material (Plastic, Galvanized, Steel)	Slot No.	Depth (m/ft) From	To
2"	PVC	.010	15	10

Water Details

Water found at Depth (m/ft)	Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, *specify*
7.	☐	
	☐	
	☐	

Hole Diameter

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

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

	Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level		7		
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	

Map of Well Location

Please provide a map below following instructions on the back.

SEE ATTACHED MAP.

Comments:

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. 7190

Municipality

il Address

Bus. Telephone No. *(inc. area code)*

Name of Well Technician (Last Name, First Name) WATTS MIKE

Well Technician's Licence No. 1671

Signature of Technician and/or Contractor

Date Submitted 2019/04/05

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered

Date Work Completed 2019/04/05

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Wilson Crescent
Highpoint St
Pine Ct
Bradley St
Grey St N
N
200 m
Google Earth
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7331884

Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: ☐ Metric ☒ Imperial

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

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

2570970 ONTARIO INC.

Address of Well Location (Street Number/Name)	Township	Lot	Concession
END OF BAILEY ST	SOUTHGATE	PT LOT 27	2 SWTSR

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

UTM Coordinates Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 8 3	17 519809	4891433		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	Soft Topsoil Soil type	0	3
Brown	Gravel	Silt & Sand	Compact Water Bearing	3	20

Annular Space

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

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☒ Other, *specify* AUGER

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☒ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

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
2"	PVC	3/16"	+0	13

Construction Record - Screen

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

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*

Water Details

Water found at Depth (m/ft)	Kind of Water	Hole Diameter Depth From	To	Diameter *(cm/in)*
7 ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*	0	20	8"
(m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*			
(m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ 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

	Draw Down Time *(min)*	Draw Down Water Level (m/ft)	Recovery Time *(min)*	Recovery Water Level *(m/ft)*
Static Level		7'		
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	

Map of Well Location

Please provide a map below following instructions on the back.

SEE ATTACHED MAP.

Comments:

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. 7190

Municipality

il Address

Bus. Telephone No. *(inc. area code)*

Name of Well Technician (Last Name, First Name) WATTS Mike

Well Technician's Licence No. 1196

Signature of Technician and/or Contractor

Date Submitted 2019/04/15

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered

Date Work Completed 2019/04/05

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Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. *(Place Sticker and/or Print Below)* A264295

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
End of BRADLEY ST.		PT LOT 22	2 SWTSR
County/District/Municipality	**City/Town/Village**	**Province**	**Postal Code**
Grey County	DUNDALK	Ontario	
UTM Coordinates Zone	Easting	Northing	**Municipal Plan and Sublot Number**	**Other**
NAD 8 3	17 548 15	7489 13 59		

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) From	To	Type of Sealant Used *(Material and Type)*	Volume Placed *(m³/ft³)*
20	8	SILICA SAND	
8	0	HYDRATED Bentonite	

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☐ Other, *specify* Auger

Well Use

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

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
2"	PVC	3/110"	20	+3

Construction Record - Screen

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

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*

Water Details

Water found at Depth (m/ft)	Kind of Water	Hole Diameter Depth From	To	Diameter *(cm/in)*
7 (m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*	0	20	8"
(m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ Other, *specify*			
(m/ft) ☐ Gas	☐ Fresh ☐ Untested ☐ 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

	Draw Down Time *(min)*	Draw Down Water Level (m/ft)	Recovery Time *(min)*	Recovery Water Level *(m/ft)*
Static Level		7'		
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	

Map of Well Location

Please provide a map below following instructions on the back.

SEE ATTACHED MAP.

Comments:

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. 7190

Municipality

Email Address

Bus. Telephone No. *(inc. area code)*

Name of Well Technician (Last Name, First Name) WATTS, Mike

Well Technician's Licence No. 1079

Signature of Technician and/or Contractor

Date Submitted 2019/04/15

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered

Date Work Completed 2019/04/05

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Bradley St
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Ontario — Ministry of the Environment and Climate Change

Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. *(Place Sticker and/or Print Below)* A264293

Well Record

Regulation 903 Ontario Water Resources Act

Page 1 of 1

2570970 ONTARIO INC.

Address of Well Location (Street Number/Name)	Township	Lot	Concession
End of BRADLEY ST.		PT LOT 22	2 SWTSR

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

UTM Coordinates	Zone	Easting	Northing	Municipal Plan and Sublot Number	Other
NAD 8 3	17	547960	4891287		420709000505206

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/Grey	Gravel	Silt & Sand	Perched water	4	10
Brown	Silt	Some Gravel, Sand	Very Compact	10	20

Annular Space

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

Method of Construction

☐ Cable Tool ☐ Diamond
☐ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☐ Air percussion
☒ Other, *specify* AUGER.

Well Use

☐ Public ☐ Commercial ☐ Not used
☐ Domestic ☐ Municipal ☐ Dewatering
☐ Livestock ☐ Test Hole ☒ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify*

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
2"	PVC	3/10"	10	+3

Construction Record - Screen

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

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*

Water Details

Water found at Depth (m/ft)	☐ Gas	Kind of Water: ☐ Fresh ☐ Untested ☐ Other, *specify*
4		

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)
0	20	8"

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

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	2.1		
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	

Map of Well Location

Please provide a map below following instructions on the back.

SEE ATTACHED MAP.

Comments:

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. 7119 16

Municipality

il Address

Bus.Telephone No. *(inc. area code)*

Name of Well Technician (Last Name, First Name) WATT, Mike

Well Technician's Licence No. 1071

Signature of Technician and/or Contractor

Date Submitted 2019/04/15

Well owner's information package delivered ☐ Yes ☐ No

Date Package Delivered

Date Work Completed 2019/04/05

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Ontario

Ministry of the Environment and Climate Change

Measurements recorded in: ☐ Metric ☒ Imperial

Well Tag No. *(Place Sticker and/or Print Below)* A258125

Tag#:A258125

Well Record

Regulation 903 Ontario Water Resources Act

Page ____ of ____

[redacted]

Address of Well Location (Street Number/Name)	Township	Lot	Concession
159155 HWY 10	MELANCTHON	223	1SRE
County/District/Municipality	**City/Town/Village**	**Province**	**Postal Code**
DUFFERIN		Ontario	
UTM Coordinates NAD 83 Zone 17 Easting 548395 Northing 4893013	**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	Depth (m/ft) 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 (m^3/ft^3)
0	+60'	Bentonite Grout	.5 m^3

Method of Construction

☐ Cable Tool ☐ Diamond
☒ Rotary (Conventional) ☐ Jetting
☐ Rotary (Reverse) ☐ Driving
☐ Boring ☐ Digging
☒ Air percussion
☐ Other, *specify* _____

Well Use

☐ Public ☐ Commercial ☐ Not used
☒ Domestic ☐ Municipal ☐ Dewatering
☒ Livestock ☐ Test Hole ☐ Monitoring
☐ Irrigation ☐ Cooling & Air Conditioning
☐ Industrial
☐ Other, *specify* _____

Construction Record - Casing

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
6 1/4	STEEL	.188	+3	84
6"	OPEN HOLE		84	102

Construction Record - Screen

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

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* _____

Water Details

Water found at Depth (m/ft)		Kind of Water	
99	☐ Gas	☑ Fresh ☐ Untested	☐ Other, *specify* _____
	☐ Gas	☐ Fresh ☐ Untested	☐ Other, *specify* _____
	☐ Gas	☐ Fresh ☐ Untested	☐ Other, *specify* _____

Hole Diameter

Depth (m/ft) From	To	Diameter (cm/in)

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)* 15 GPM

Duration of pumping 2 hrs + _____ min

Final water level end of pumping *(m/ft)* 9

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

Recommended pump depth *(m/ft)* 45 FT

Recommended pump rate *(l/min / GPM)* 10-15 GPM

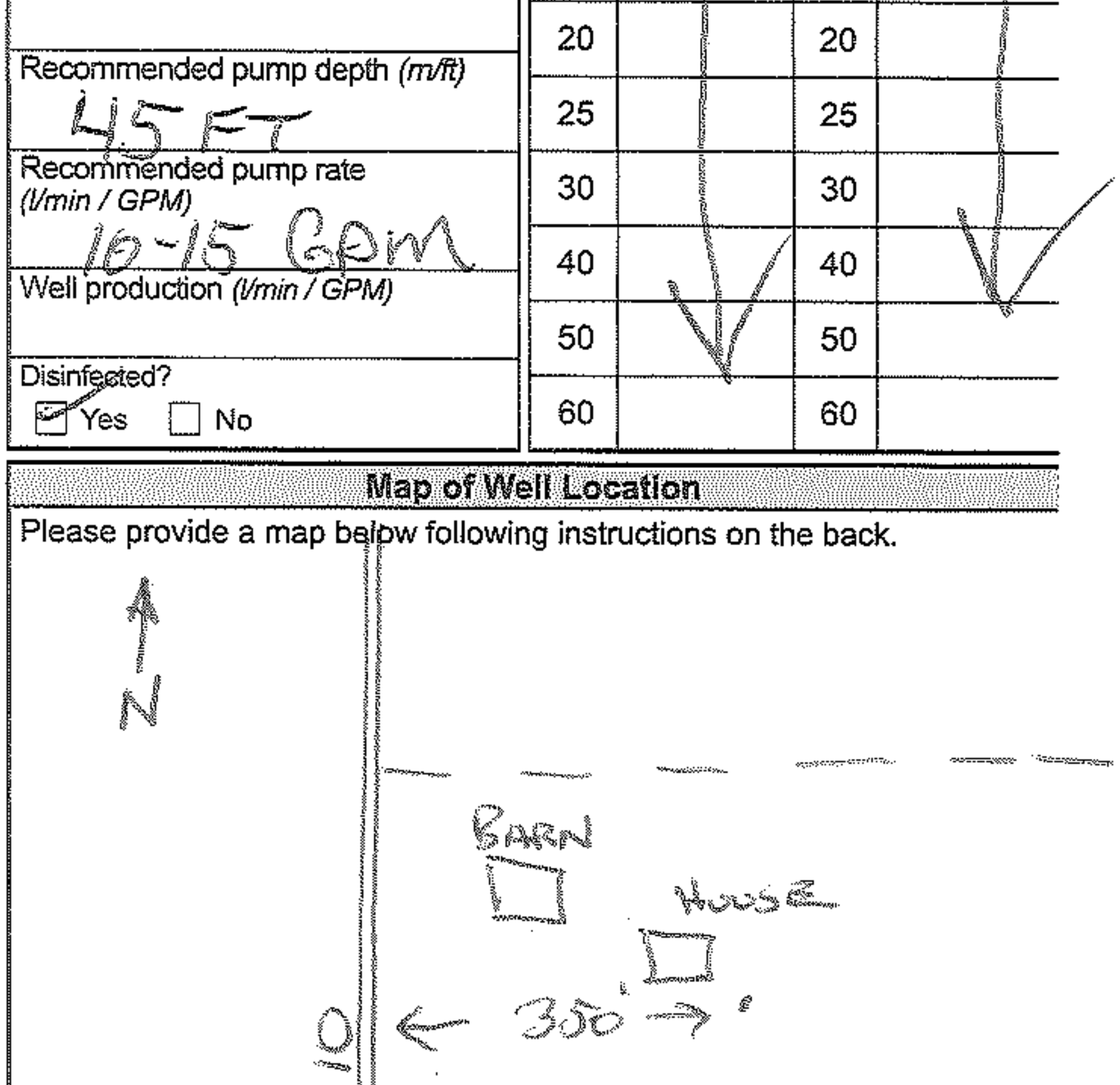
Well production *(l/min / GPM)*

Disinfected? ☑ Yes ☐ No

Draw Down Time (min)	Draw Down Water Level (m/ft)	Recovery Time (min)	Recovery Water Level (m/ft)
Static Level	8		9
1	9	1	8
2	9	2	8
3	9	3	8
4	9	4	8
5	9	5	8
10	9	10	8
15		15	
20		20	
25		25	
30		30	
40		40	
50		50	
60		60	

Map of Well Location

Please provide a map below following instructions on the back.



Comments:

AIRLIFT 40 GPM.

Well Contractor and Well Technician Information

Business Name of Well Contractor	Well Contractor's Licence No.
NEUMANN WELL DRILLING LTD	7015
Business Address (Street Number/Name)	**Municipality**
453022 GREY Rd 2 BOX 180	DUNDALK
Province	**Postal Code**	**Business E-mail Address**
ONT	N0C 1B0	
Bus. Telephone No. (inc. area code)	**Name of Well Technician (Last Name, First Name)**
519 923 3203	GILLIES TOM
Well Technician's Licence No.	**Signature of Technician and/or Contractor**	**Date Submitted**
1958	Tom Gillies	[redacted]

Well owner's information package delivered ☑ Yes ☐ No

Date Package Delivered [redacted]

Date Work Completed 20190507

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Ontario (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

Ontario

Ministry of the Environment, Conservation and Parks

Well Record - Regulation 903

Ontario Water Resources Act

Notice of Collection of Personal Information

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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]	
Organization	**Email Address**
Southgate Meadows Inc.	[redacted]

Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village
		[redacted]	

Country	Province	Postal Code	Telephone Number
Canada	Ontario	[redacted]	

2. Well Location

Address of Well Location

Unit Number	Street Number *	Street Name *	Township
	231	Glenelg 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 *		Municipal Plan and Sublot Number
NAD 83	17	547333	4891206	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?
				☐ Yes ☑ 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	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
☐ Yes ☑ No		2021/03/17

Comments
MW1 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 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: Date: 2021-04-14 14:42:01 Foxit PhantomPDF Version: 9.4.1	2021/04/14

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Audit Number
UKPZ BS7B

Ontario

Ministry of the Environment, Conservation and Parks

Well Record - Regulation 903

Ontario Water Resources Act

Notice of Collection of Personal Information

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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]	
Organization: Southgate Meadows Inc.	Email Address: [redacted]

Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village
		[redacted]	

Country	Province	Postal Code	Telephone Number
Canada	Ontario	[redacted]	

2. Well Location

Address of Well Location

Unit Number	Street Number *	Street Name *	Township
	231	Glenelg 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 *		Municipal Plan and Sublot Number
NAD 83	17	547746	4891026	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?
				☐ Yes ☑ 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	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
☐ Yes ☑ No		2021/03/17

Comments
MW2 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
Alan Archibald
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:
Date: 2021-04-14 14:41:00
Foxit PhantomPDF Version: 9.4.1

Date Submitted (yyyy/mm/dd)
2021/04/14

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Ontario

Ministry of the Environment, Conservation and Parks

Well Record - Regulation 903

Ontario Water Resources Act

Notice of Collection of Personal Information

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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]	
Organization	**Email Address**
Southgate Meadows Inc.	[redacted]

Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village
		[redacted]	

Country	Province	Postal Code	Telephone Number
Canada	Ontario	[redacted]	

2. Well Location

Address of Well Location

Unit Number	Street Number *	Street Name *	Township
	231	Glenelg 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 *		Municipal Plan and Sublot Number
NAD 83	17	548027	4890884	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?
				☐ Yes ☑ 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	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
☐ Yes ☑ No		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 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: Date: 2021-04-14 14:41:28 Foxit PhantomPDF Version: 9.4.1	2021/04/14

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Audit Number
L36G H336

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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]	
Organization	Email Address
Southgate Meadows Inc.	[redacted]

Current Address

Unit Number	Street Number *	Street Name *	City/Town/Village
		[redacted]	

Country	Province	Postal Code	Telephone Number
Canada	Ontario	[redacted]	

2. Well Location

Address of Well Location

Unit Number	Street Number *	Street Name *	Township
	231	Glenelg 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 *		Municipal Plan and Sublot Number
NAD 83	17	547965	4890795	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?
				☐ Yes ☑ 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	Date Package Delivered (yyyy/mm/dd)	Date Work Completed (yyyy/mm/dd) *
☐ Yes ☑ No		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
Alan Archibald
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:
Date: 2021-04-14 14:41:44
Foxit PhantomPDF Version: 9.4.1

Date Submitted (yyyy/mm/dd)
2021/04/14

17. Ministry Use Only

Audit Number
6CW4 L4DH

Ontario (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: 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