LOYALIST TOWNSHIP

GEOTECHNICAL AND HYDROGEOLOGICAL INVESTIGATION AMHERSTVIEW SECONDARY PLAN KINGSTON, ONTARIO

OCTOBER 15, 2021 (UPDATED) CONFIDENTIAL





GEOTECHNICAL AND HYDROGEOLOGICAL INVESTIGATION

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CONFIDENTIAL

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October 15, 2021

CONFIDENTIAL

Loyalist Township Economic Growth &Community Development Services P.O. Box 70, 18 Manitou Crescent West, Amherstview, ON K7N 1S3

Attention: Bohdan Wynnyckyj, RPP

Subject: Geotechnical and Hydrogeological Investigation, Amerherstview Secondary

Plan, Kingston, Ontario

Dear Sir/Madam:

We are pleased to submit our Geotechnical and Hydrogeological Investigation Report to provide subsurface information as input to the design of the Amherstview Secondary Plan, Kingston, Ontario.

The report is based on information obtained from WSP's borehole investigation, well monitoring and laboratory testing programs completed in July 2021. A summary of our completed field and laboratory work, subsurface findings, recommendations and construction considerations is included herein.

We trust that this report meets your present requirements. Please contact us if you have any questions.

Yours truly,

Steve Clark, M.Sc., P.Eng.

Team Lead, Geotechnical/Northeast

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WSP ref.: 211-01353-00



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1 INTRODUCTION

WSP Canada Inc. (WSP) was retained by the Loyalist Township (the Client) to complete a geotechnical and hydrogeological investigation for the proposed Amherstview Secondary Plan (the Site) at Kingston, Ontario. The location of the Site is shown on Figure 1.

The Site generally consists of open agricultural fields and forested areas with a residential street (Parrot's Bay Road) running north to south near the west side of the Site. It is crossed by a few small water courses with associated wetlands. The Site is bounded by Taylor Kidd Boulevard to the north, County Road 6 to the east, Bath Road (Highway 33) to the south and a wetlands and water course to the west.

A total of fifteen (15) borehole locations were staked in late May 2021. Twelve (12) boreholes were advanced across the Site from June 1st to 3rd, 2021 at various locations to provide information on subsurface conditions at the Site, including surficial soil, shallow bedrock and groundwater conditions. Three (3) borehole locations that were staked were not accessed due to objections from local residents when the drill rig was on site. Eight (8) of the twelve (12) boreholes that were advanced were further developed as monitoring wells. WSP also conducted a ground penetrating radar (GPR) survey in the vicinity of the boreholes to provide additional information beyond the immediate location of the boreholes in order to develop a sense of potential overburden thickness. WSP attended the Site on June 15, 2021 to develop the wells and measure groundwater conditions. Based on the investigation findings, WSP has provided recommendations for consideration during the layout and preliminary design of the Site.

2 SITE DESCRIPTION

2.1 PHYSIOGRAPHY

The Site is located in the Napanee Plain Physiographic Region (Chapman and Putnam, 1984), which is comprised of shallow overburden overlying limestone bedrock. A map of the regional physiography is shown in Figure 3.

2.2 TOPOGRAPHY AND DRAINAGE

The topography of the Site is generally flat to undulating, sloping gently towards the south and towards a surface water feature that bisects the Site and drains southerly towards Parrott's Bay on the north shore of Lake Ontario immediately west of Kingston. Elevations at the Site range between 95 meters above sea level (masl) in the central area of the Site to about 80 masl to the south and west (Figure 1). The normal water level of Lake Ontario immediately south of the site is approximately 75 masl

Drainage is generally good with moderately-sized open areas of agricultural land, primarily used for cattle grazing and small-scale farming activities. Numerous treed areas are present and several small seasonal water courses cross the Site, particularly in the south and west portion of the Site. Local shallow depressions are seasonally wet.

3 GEOLOGY AND HYDROGEOLOGY

The geological and hydrogeological properties of the subsurface were investigated using the following publicly available resources, in addition to boreholes installed across the Site and the GPR survey previously mentioned. The following publicly available resources were used to develop the information immediately below. The boreholes and GPR data are discussed in a following section.

- Existing geological mapping.
- Well records from the MECP Water Well Information System (WWIS).
- Records from the MECP PTTW and EASR databases.
- Drinking water source protection policy areas.

This information is discussed in the following sections.

3.1 EXISTING GEOLOGICAL MAPPING

3.1.1 SURFICIAL GEOLOGY

The surficial geology in the vicinity of the Site consists of generally flat-lying Paleozoic limestone bedrock, with a thin layer of overburden consisting of topsoil and fine-textured glaciolacustrine deposits consisting of silt and clay, minor sand and gravel pockets throughout the Site as shown in **Figure 4**. One borehole intersected approximately 12m of glaciolacustrine material in a potential karst. The GPR data indicates that deposits greater than 1 m thick will be rare.

3.1.2 BEDROCK GEOLOGY

The bedrock underlying the Site consists primarily of lithographic to fine-crystalline limestone, silty dolostone, shale and fine-grained calcareous quartz sandstone of the Gull River Formation (Ontario Geological Survey, 1999) (**Figure 5**). The bedrock is typically found within 1 m of surface, as shown in **Figure 5**. Outcrops of limestone are found throughout the Site.

3.2 WATER WELL RECORDS

One-hundred and twelve (112) records were found in the Ministry of the Environment, Conservation and Parks (MECP) water well database for wells within 500 m of the Site (**Figure 6**). Among all the records, there are:

- Twenty-seven (27) records listed as water supply wells, of which:
 - Eighty-two (82) are used for domestic purposes;
 - Four (4) are used for municipal purposes; and
 - Five (5) is used for livestock;
- One (1) record was listed as observation well;
- One (1) record was listed as unknown;
- Seventeen (17) record was listed as an abandonment record; and
- Two records had no data.

The soil materials described in the well records generally indicate shallow topsoil, clay, sand, gravel, stones or fill overlying shale and/or limestone bedrock. This is consistent with the regional understanding and observations from the fieldwork. Well depths ranged between 48.4 m below ground surface (mbgs) to 95.1 mbgs, water found ranged between 0.5 mbgs to 53.3 mbgs and static water levels ranged between 0.9 mbgs to 41.1 mbgs. The water well locations are shown on **Figure 6**. A tabulated summary of the well records is provided in **Appendix C**.

3.3 MECP PTTW AND EASR DATABASES

No active permits were identified in the MECP Permit to Take Water (PTTW) database within a 500 m radius of the Site, except for one construction dewatering PTTW for Leighton Lands, located east of the Site. The PTTW has maximum of 3,270,240 L per day. No active Environmental Activity and Sector Registry (EASR) for construction dewatering were identified in the MECP Access Environment web portal within 500 m for takings between 50,000 and 400,000 L/day.

4 WORK PROGRAM

4.1 FIELD INVESTIGATION

WSP geotechnical staff attended the Site in mid-May 2021 to stake borehole locations. Ontario One Call and a private locate service were used to identify potential underground utilities at each proposed borehole location. No utility conflicts were identified.

A drilling program was carried out at the Site from June 1st to 3rd, 2021, with twelve (12) boreholes, designated as BH21-01 to BH21-15, being advanced to the depths ranging from 5.0 to 6.6 m below ground surface (mBGS). Three (3) boreholes (BH21-05, BH21-10 and BH21-13) were not drilled due to complaints from local residents. Monitoring wells were installed in eight (8) of the boreholes. WSP field personnel supervised the drilling operations and recorded the subsurface conditions encountered in the boreholes. The boreholes were advanced using a tracked drill rig equipped with a down-the-hole hammer. Representative samples of rock cuttings were recovered from the boreholes and placed in moisture proof bags and transported to our CCIL-certified laboratory for subsequent review by the project team. Bedrock cores were obtained with a diamond core bit at three (3) locations to recover undisturbed samples of the bedrock. The boreholes were checked for groundwater seepage and general stability prior to backfilling.

GPR was used to evaluate the depth of overburden at various locations about the Site and specifically in the vicinity of the boreholes. The objective of the GPR investigation was to expand on the pin point data from the boreholes in order to develop a better sense of the potential for karsts in the area.

Groundwater monitoring was undertaken on June 4th and 15th to provide initial data for the assessment of the hydrogeological parameters of the Site. Of the eight (8) wells installed, four (4) were dry during the two monitoring events and one (1) was not accessible on June 15th as the well (BH21-12) had been locked and a No Trespassing sign installed. The other three (3) wells were measured and a slug test was performed on each well.

4.2 LABORATORY TESTING

4.2.1 PHYSICAL EXAMINATION

Upon completion of drilling, recovered soil and rock samples were transported to the WSP geotechnical laboratory for more detailed visual examination and engineering classifications by the Project Team. The rock chips and core samples were examined by a geological engineer.

The borehole logs are included in **Appendix A**.

4.2.2 ANALYTICAL LABORATORY TESTING

Analytical laboratory testing (chemical analysis) was performed on samples from the three (3) wells which contained a sufficient volume of groundwater. The environmental laboratory results are provided in **Appendix D.**

5 SUBSURFACE FINDINGS

Based on the data collected during field investigations, borehole information, the subsurface profile at the Site generally consists of a thin layer of overburden overlying limestone bedrock. The layers encountered in the boreholes are described as follows.

5.1 TOPSOIL

Topsoil was encountered at the surface at most borehole locations. The topsoil was described as organic-rich, brown, and moist at the time of the investigation. The topsoil thickness ranged from 0.0 m to 0.9 m with a typical thickness of 0.6 m. GPR was used to assess overburden thickness in the vicinity of the boreholes and at other select locations and yielded broadly similar results with most areas < 1m thick. Broadly speaking, the GPR data indicates the overburden is marginally thicker in the northeast quadrant when compared to the northwest, central and southwest areas.

5.2 SILTY CLAY

A 0.6 m thick layer of silty clay was identified in BH21-02 between the topsoil and top of limestone. The silty clay was brown, moist, and About the Plastic Limit (APL) at the time of the inspection.

BH21-03 intersected a 2.5 m thick unit of silty clay that was brown to brownish grey from about 0.6 mBGS to 3.1 mBGS. The silty clay was described as moist. The silty clay transitioned into a clayey silt at about 3.1 mBGS.

Two particle size distribution analyses were completed on the silty clay in these two boreholes. The two plots are presented in **Appendix B**.

5.3 CLAYEY SILT

BH21-03 intersected a layer of brownish grey clayey silt underlying the silty clay from about 3.1 mBGS to bedrock at about 5.0 mBGS. The silty clay was described as wet. The clayey silt was resting directly on limestone bedrock, which was confirmed by coring from 5.0 mBGS to 6.1 mBGS in BH21-03.

One particle size distribution analysis was completed on the clayey silt. The plot is presented in Appendix B.

5.4 LIMESTONE

Bedrock was intersected in all boreholes, typically within 0.6 m of the surface, with the exception of BH21-03, which likely intersected a karst feature with limestone at 5.0 mBGS.

The bedrock is typically flat-lying, gray, lithographic to fine-crystalline limestone with thin shaley laminations. The rock is strong with occasional fractures and only slightly weathered. The rock is typical of the Gull River Formation and may contain silty dolostone, shale and fine-grained calcareous quartz sandstone.

5.5 GROUNDWATER

Eight (8) monitoring wells were installed on Site and only four (4) contained a measurable quantity of groundwater. Groundwater levels were measured manually from each monitoring well on two occasions, June 4 and June 15, 2021. Eight wells were installed at the site and four of the wells were dry on both monitoring occasions. BH21-12 was only measured on June 4, 2021 as the property owner had locked the well and placed a Do Not Trespass sign up prior to the June 15, 2021 event. Groundwater levels the remaining three wells ranged between 0.9 mBGS to below 2.0 mBGS in the wells. This corresponds to a range in elevations of 78.9 masl to 91.4 masl. Water levels are shown in Table 4-2 below. A summary of water levels and well construction details is provided in **Appendix C**.

Given the large property size and limited of wells with a measurable quantity of groundwater, preparation of groundwater flow direction maps is problematic. The competent limestone bedrock has a very low hydraulic conductivity and groundwater flow will be largely dependent on fractures and potentially shally bedding planes, neither of which were identified in any significant quantity in the core samples.

Table 5-1 Manual Water Measurements

			WATER LEVELS											
LOCATION	ELEVATION GROUND	ELEVATION OF TOP OF	June -	4, 2021	June 15, 2021									
	(MASL)	PIPE (MASL)	m bgs	mASL	m bgs	mASL								
BH21-03	92.87	93.48	1.42	91.4	1.44	91.4								
BH21-09	90.74	91.76	2.01	88.7	1.43	89.3								
BH21-11	80.17	80.98	0.89	79.3	1.27	78.9								
BH21-12	96.78	97.62	6.37	90.4										

Note: --- the water level was not obtained during this visit.

5.6 GROUNDWATER QUALITY SAMPLING

Three (3) of the installed wells (BH21-03, BH21-09 and BH21-11) were accessible and contained a sufficient volume of water for sampling. The monitoring wells were purged of a minimum of three well volumes using dedicated Waterra® tubing and inertial lift foot valves on June 4, 2021. Samples were obtained and collected on June 15 and 16, 2021 and placed into laboratory-supplied bottles (with chemical preservatives as required) and stored according to chain of custody procedures until received at the laboratory. Groundwater samples were submitted for analysis of general chemistry parameters, including metals and inorganics and were compared to the Provincial Water Quality Objectives (PWQO), as indicated in **Table 2**. The Laboratory Certificates of Analysis for the groundwater samples are provided in **Appendix D**.

Laboratory analysis indicated that all samples analyzed met the PWQOS, except Boron, Cobalt, Copper, Iron, Nickel, Selenium, Silver, Thallium, Uranium, Vanadium, Zinc and Zirconium. The exceedances are summarized in **Table 5-2**.

Table 5-2 PWQO Exceedences

PARAMETER	PWQO	UNITS	BH21-03	BH21-09	BH21-116
Boron	0.2	mg/L	0.236	1.66	0.229
Cobalt	0.0009	mg/L	0.354	0.0123	0.013
Copper	0.005	mg/L	0.8	0.039	0.028
Iron	0.3	mg/L	920	34.9	29.1
Nickel	0.025	mg/L	0.862	0.041	0.041
Selenium	0.1	mg/L	0.111	-	-
Silver	0.0001	mg/L	0.0019	0.0023	-
Thallium	0.0003	mg/L	0.0087	0.0014	0.0021

PARAMETER	PWQO	UNITS	BH21-03	BH21-09	BH21-116
Uranium	0.005	mg/L	0.019	-	-
Vanadium	0.006	mg/L	1.32	0.043	0.036
Zinc	0.030	mg/L	2.17	0.157	0.045
Zirconium	0.004	mg/L	0.088	-	0.007

Bold text indicates an exceedance of the PWQO. Dash means parameter was within the PWQOs.

It is noted that the groundwater samples had high turbidity and that at least some of the elevated parameters may be related to elevated total suspended solids in the samples. It is inferred that during dewatering, if the quantity of sediment is reduced, then these parameters will also be reduced.

5.7 HYDRAULIC TESTING

Single well hydraulic tests (slug tests) were completed for the three monitoring wells with water (BH21-03, BH21-09, and BH21-11) on this site on June 15, 2021. Wells were purged of three well volumes using Waterra® tubing and foot valves and allowed to recover. Water level recovery measurements were obtained through manual readings. Electronic dataloggers were used on two of the wells. Tests were analyzed using the Hvorslev method for slug test recovery. Hydraulic conductivity (K) estimates ranged between 2.0×10^{-7} and 3.8×10^{-8} m/s, which is within the expected range of results for fractured limestone (Freeze and Cherry, 1978). The overburden rates may be slightly high for the types of material that have been encountered at the Site, while the values for fractured bedrock may be within the literature expected values. The results are provided in Table 5-3 and Slug Test calculations are provided in **Appendix G**.

Table 5-3 Hydraulic Conductivity Estimates from Hydraulic Testing

WELL	ANALYSIS	MATERIAL SCREENED	ESTIMATED HYDRAULIC CONDUCTIVITY (m/s)
BH21-03	Hvorslev	Clayey Silt to Silty Clay	2.5x10 ⁻⁷
BH21-09	Hvorslev	Limestone	3.8x10 ⁻⁸
BH21-11	Hvorslev	Limestone	2.0x10 ⁻⁷

5.8 GROUND PENETRATING RADAR

The GPR survey was conducted on April 5th and 6th, 2021 in the general vicinity of the boreholes and for selected areas beyond the limit of the boreholes. Approximately 25% of the entire site was scanned and with approximately 18km of profile data being generated.

Data from the GPR work indicates the overburden thickness averages less than 0.75 m thick and ranges up to 1.75 m thick with a few relatively small pockets of thicker overburden. These results correlate well with the borehole data which suggests overburden thickness from 0.3 m to 0.9m, with the exception of BH21-03 where the unconsolidated overburden is 5 m thick.

The data indicate the south and west half of the Site has generally less overburden than the north and east half. There are a few areas in the northeast quadrant of the Site that suggest potential karst development. Most notably, analysis of the data indicates a potential 5 m wide dipping feature trending generally east to west in the vicinity of BH21-02 and BH21-04. The data could indicate a karst feature although it is not certain. No other major features were identified within the coverage area. The GPR report is attached as **Appendix F.**

6 RECOMMENDATIONS

Overburden thickness at the Site is typically < 1 m with a few deeper pockets that will be encountered during construction activities. Topsoil is generally 0.3- 0.6 m thick with the balance of the unconsolidated material consisting of glaciolacustrine silty clay or clayey silt. Topsoil may be stripped and stockpiled for later reuse. The silty clay and clayey silt is not suitable for reuse as structural or trench backfill due to the high percentage of fine material, but could potentially be used for backfill of landscaped areas. Limestone bedrock encountered in all boreholes is competent rock and will present a challenge during construction. Bedrock removal by mechanical methods or blasting will be required for all below grade work.

While we believe our findings are fairly representative, conditions may differ beyond the investigated location. If significant differences in subsurface conditions are found at a later time, particularly during construction or as more information becomes available, WSP should be contacted immediately to revise our findings and recommendations, if necessary.

Recommendations are intended for Designers and are not intended as instructions to Contractors, who should perform their own investigations to confirm any conditions that may affect them. Recommendations in this Report must not be used by third parties without the express written consent of WSP.

6.1 EXCAVATIONS AND DEWATERING

It is expected that most of the infrastructure and building work will require rock excavation. Excavations should be constructed in accordance with the most recent version (O. Reg. 123/08) of the Occupational Health and Safety Act (OHSA). In general, the Site soils are thin and consist predominantly of silty clay or clayey silt.

It is expected that most of the bedrock excavations will be relatively shallow and that stable vertical or near vertical walls can be readily achieved within the limestone. Based on the recovered core, it is expected that the shallow limestone can be removed by a large excavator equipped with a toothed bucket. Deeper or more competent bedrock can likely be removed with a hydraulic rock breaker although blasting may be required. It is recommended that once the design is advanced to the point where road and utility trench alignments have been determined, that test excavations be completed to determine the most cost-effective way to remove the rock. Having this knowledge prior to final design and tendering will allow for a better cost estimate to be made.

The native site soils, above the groundwater table, may be considered a Type 2 soil, and excavation sidewalls should be sloped at a maximum of 1H:1V to within 1.2 m of the base of the excavation;

The existing fill soils, above the groundwater table, may be considered a Type 3 soil, and excavation sidewalls should be sloped at a maximum of 1H:1V to the base of the excavation; and

Any soils below the groundwater tables should be considered a Type 4 soil, and excavation sidewalls should be sloped at a maximum of 3H:1V to the base of the excavation.

Excavations should be protected from exposure to precipitation and associated ground surface runoff, and should be inspected regularly for signs of instability. If localized instability is noted during excavation, or if wet conditions are encountered, side slopes should be flattened as required to maintain safe working conditions. If excavation side slopes cannot be achieved due to site confinement, shoring should be designed and installed.

Relatively minor seepage into open cut excavations above the groundwater table may be controlled using filtered sumps and pumps. Surface water inflow can also be controlled in this manner, but preferably it should be directed away from the excavations. For service trenches, to minimize potential problems, backfilling operations should follow closely after excavation and pipe installation so that only minimal lengths of trench are exposed at any given time.

It is expected that the majority of dewatering activities can be completed using filtered sumps, however depending on final installation depth, advance dewatering systems may be required when excavations extend below the groundwater table. All dewatering shall be completed according to OPSS 518 and shall be completed using submersible pumps and sumps, well points or diversions as required.

Trench dimensions (length, width and depths) as well as dewatering methods and techniques can greatly affect the volume of dewatering that will be required for excavation operations. Based on the hydraulic conductivity calculations completed to date, it is not expected that significant dewatering due to groundwater infiltration will be required. If dewatering activities exceed 50,000 L/day, the project would either need to be registered under the ESAR program by the MOECC for up to 400,000 L/day or require a PTTW if anticipated volume exceeds 400,000 L/day. Both an EASR or a PTTW application should be done in advance of construction, by a Qualified Person, and consider the pumping rates, drawdown, water quality for discharge, ground effects, and monitoring requirements.

6.2 MATERIAL REUSE, BACKFILL AND COMPACTION

The native soils contain significant amounts of fine grained material which limit where this material can be reused. It is anticipated that the relatively small volume of native soil will be reused for landscaping and not placed as structural or trench backfill where freeze-thaw and insufficient compaction would be a concern.

Material used as trench backfill should be free of all deleterious matter (e.g. topsoil, organic matter, etc.). Materials used for trench backfill should be placed in 150 mm maximum loose lifts and compacted to 98 percent of the Standard Proctor Maximum Dry Density (SPMDD) beneath roadways and structural components, and 95 percent of the SPMDD in general fill areas. Compaction operations should be completed using a self-propelled vibratory compactor or jumping-jack plate tamper where access is limited. Backfill loose lift thicknesses may need to be reduced to achieve the above noted compaction values based on compaction equipment utilized.

Special considerations should be made for backfill and compaction operations during cold weather conditions. Reused native soils and granular soils (Granular A and B) tend not to achieve adequate compaction in below freezing temperatures and thus other backfill materials such as 19 mm Clear Stone Bedding or High-Performance Bedding Stone (HPBS) wrapped in a geotextile (Terrafix 270R or approved equivalent) may need to be utilized.

If soils are to be exported from the site, confirmatory field screening and chemical soil analyses should be completed at the time of export to verify acceptance for the receiving Site.

6.3 BEDDING AND COVER MATERIAL

It is likely that all buried infrastructure will be installed in excavated bedrock trenches. A normal Class B bedding is recommended for all underground services. Bedding materials can be well graded, granular fill, such as Granular A (OPSS MUNI 1010), 19 mm crushed Clear Stone Bedding (OPSS MUNI 1010) or HPBS (OPSS MUNI 1010) with a minimum compacted thickness of 150 mm. Pipe bedding and cover materials should be compacted to at least 98 percent of SPMDD for Granular Materials.

6.4 FROST PENETRATION DEPTH

Based on professional experience, soil types, and proposed structures, the proposed services should be provided with at least 1.5 m of earth cover for frost protection, or an equivalent thickness of insulation installed according to manufacturer's specifications. Municipal and/or Ontario Parks standards may supersede this recommended minimal frost penetration depth.

6.5 LIFT STATION

It is assumed that an underground lift station will require an excavation to at least 4 m below existing grade. This will require the excavation of limestone.

The excavation for the construction of the lift station should be carried out in a manner that limits peripheral damage to the surrounding bedrock in order to maintain the integrity of the rock and avoid opening up fractures or other conduits that could increase dewatering requirements.

Upon approval of the exposed base by the Geotechnical engineer, and removal of any standing water that may accumulate as of result of seepage and infiltration, a geotextile fabric (such as Terrafix 360R, or equivalent) (if required) and high

performance bedding stone may be placed on the base of the excavation if required to facilitate the work. Subject to the conditions in the excavation at the time of construction, bedding thickness should be at least 300 mm. Groundwater seepage control may be required to place bedding.

Backfilling materials and methods should be carried out in accordance with the Manufacturer's Specifications, or as directed by the Engineer. The lift station shall be designed for sufficient uplift resistance to maintain stability and prevent flotation under all operating conditions.

6.6 DESIGN COMMENTS

Geotechnical inspection and review of excavations and compaction procedures during construction must be carried out by a qualified geotechnical engineer, or qualified technician working under the direct supervision of a geotechnical engineer, to ensure compliance with our recommendations.

Recommendations for design and construction are based on the borehole information provided above. While we believe our findings are fairly representative, conditions may vary between and beyond the investigated locations. If significant differences in the subsurface conditions described above are found at a later time, WSP should be contacted immediately to revise our findings and recommendations, as necessary.

Recommendations are intended for Designers and are not intended as instructions to Contractors, who should perform their own investigations to confirm any conditions that may affect them. Recommendations in this report must not be used by third parties without the express written consent of WSP.

7 INSPECTIONS, MATERIAL TESTING AND LIMITATIONS OF REPORT

The data, conclusions and recommendations which are presented in this geotechnical report, and the quality thereof, are based on the scope of work authorized by the Client. While we believe the information to be representative of site conditions, subsurface conditions between and beyond the test locations may vary. If significant differences in the subsurface conditions described above are found, we should be contacted immediately to revise our findings and recommendations, if necessary.

The design recommendations provided in this report are intended for designers and should not be construed as providing instructions to contractors, who should form their own opinions about site conditions for tendering, construction procedures and general planning. WSP accepts no liability for use of or reliance on the report information by third parties, without express written consent. WSP should be contacted to review and comment on the pavement details and overall design to confirm that the geotechnical requirements stated in this report are addressed. If WSP is not given the opportunity to review the design prior to commencing of work of the above recommendations we cannot be held liable for any misinterpretation of the recommendations.

During construction, qualified personnel working under the direct supervision of the Geotechnical Engineer should be contacted to complete inspections of the bedrock excavations, subgrade, granular fill compaction and to oversee all phases of infrastructure construction. Geotechnical inspections are critical during construction operations for quality control and assurance (QA/QC). Inspection and testing services should include verification of subgrade soil conditions below placed granular fills, monitoring of the placement of engineered fill, and general testing of geotechnical materials including compaction testing of engineered fill and asphalt.

APPENDIX

A BOREHOLE LOGS



CLIENT: Township of Loyalist Method: solid stem ENCL NO.: 1

PROJECT LOCATION: Diameter: 160mm O.D
DATUM: Geodetic Date: Jun-01-2021

BH LO	OCATION: N 44.222354 E -76.671411							l e	TA NID A I	ח חבו	IETD A	TION TO	ет	1						
	SOIL PROFILE			SAMPL	.ES	<u>ر</u>		RESI	STANC	E PLOT		TION TE -	:51	PLAST	C NATI	URAL	LIQUID		ΛΤ	REMARKS
(m)						GROUND WATER CONDITIONS		2	.0 4	10 6	80	80 1	00	LIMIT	C NATI MOIS CON	TENT	LIMIT	POCKET PEN. (Cu) (kPa)	NIT (AND GRAIN SIZE
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101.5		12.5						-												
- 0.6	LIMESTONE and SHALE Grey, competent bedrock		1					_												
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CLIENT: Township of Loyalist Method: solid stem ENCL NO.: 2

PROJECT LOCATION: Diameter: 160mm O.D
DATUM: Geodetic Date: Jun-01-2021

	OCATION: N 44.22436 E -76.672758									1-202											
	SOIL PROFILE		s	AMPL	ES			ST RESI	ANDAF	RD PEN E PLOT	ETRAT	ION TE	ST		NATI	ΙΡΛΙ			L	REMAF	oks.
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(m)		STRATA PLOT			SΙΕ	WA.	Z			RENG	TH (kF	 ⊃a)		W _P	V	V	$\mathbf{W}_{\!L}$	POCKET PEN. (Cu) (kPa)	NL UN	GRAIN S	
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CLIENT: Township of Loyalist Method: solid stem ENCL NO.: 3

PROJECT LOCATION: Diameter: 160mm O.D
DATUM: Geodetic Date: Jun-01-2021

BH LOCATION: N 4898527 E 366206

BH LC	OCATION: N 4898527 E 366206					1		91	ΔΝΠΔΕ	D DEN	IETRA	TION TE	:ST							
	SOIL PROFILE		S	AMPL	.ES	œ.		RESI	STANC	E PLO		FION TE	.01	PLAST	IC NAT	URAL	LIQUID		WT	REMARKS
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DEPTH		RAT	NUMBER	TYPE		SOUN	EVA	• Q	JICK TE	RIAXIAI	- ×	LAB V	ANE	WA	TER CO	ONTEN	IT (%)	9	NA T	(%)
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_ 0.6	SILTY CLAY Brown to greyish brown, moist	\mathcal{X}																		
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CLIENT: Township of Loyalist Method: solid stem ENCL NO.: 4

PROJECT LOCATION: Diameter: 160mm O.D
DATUM: Geodetic Date: Jun-01-2021

BH LO	OCATION: N 44.224896 E -76.676717					1 1		ST.	ΔΝΠΔΕ	D DEN	IETRΔ	TION T	FST	_						
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ENCL NO.: 5

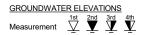


PROJECT: Loyalist Secondary Plan REF. NO.: 211-01353-00

CLIENT: Township of Loyalist Method: solid stem

PROJECT LOCATION: Diameter: 160mm O.D
DATUM: Geodetic Date: Jun-01-2021

	OCATION: N 44.220927 E -76.677255							Date.	ouii o	1-202										
DITE	SOIL PROFILE		S	SAMPL	ES			ST	ANDAF	RD PEN E PLOT	ETRAT	ION TE	ST	l						
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ELEV DEPTH	DESCRIPTION	STRATA PLOT	띘		BLOWS 0.3 m	D T	ELEVATION		NCONF	RENG' INED	ı⊓ (Kl +	Pa) FIELD V & Sensit	ANE	-			—	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	DISTRIBUTION (%)
		IRA.	NUMBER	TYPE		NC OND	EV/	● QI	JICK TF	RIAXIAL	×	LAB V	ANE	1	TER CC		. ,	Δ.	M	
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O ^{8=3%} Strain at Failure

ENCL NO.: 6



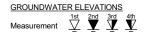
PROJECT: Loyalist Secondary Plan REF. NO.: 211-01353-00

CLIENT: Township of Loyalist Method: solid stem

PROJECT LOCATION: Diameter: 160mm O.D

DATUM: Geodetic Date: May-31-2021

Composition Content of the conte	BH L	OCATION: N 44.217885 E -76.674102																			
96.2 1 AS 1 AS 2 CORE 2 CORE 3 CORE		SOIL PROFILE		S	SAMPL	ES	_		ST RESIS	ANDAF STANCI	RD PEN E PLOT	IETRAT	TON TE	ST	DI ASTI	ıc NATI	URAL	HOHID		Л	REMARKS
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90.4 90.4 90.4 6.4 Borehole terminated at 6.4 mBGS in	- - - - <u>4</u> - -			4	CORE			93	-												
6.4 Borehole terminated at 6.4 mBGS in	- - - - <u>5</u> - -							92	-												
6.4 Borehole terminated at 6.4 mBGS in				5	CORE			91	-												
		Borehole terminated at 6.4 mBGS in							-												



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CLIENT: Township of Loyalist Method: solid stem ENCL NO.: 7

PROJECT LOCATION: Diameter: 160mm O.D DATUM: Geodetic Date: May-31-2021

BH L	OCATION: N 44.214942 E -76.669737							07	ANDA	DD DEA	ICTO AT	ION TO	O.T.							
	SOIL PROFILE		S	AMPL	ES.	<u>_</u>		RESI	STANC	E PLOT		ION TE	SI	PLASTI	NATI	URAL	LIQUID		Т	REMARKS
(m)		=				GROUND WATER CONDITIONS		2	0 4	10 6	0 8	30 1	00	LIMIT	C NATI MOIS CON	TENT	LIMIT	POCKET PEN. (Cu) (kPa)	NIT V	AND GRAIN SIZE
ELEV	DESCRIPTION	STRATA PLOT	~		BLOWS 0.3 m	M OI	ELEVATION			RENG	TH (kl	Pa)	ΔNE	W _P	`	w >	W _L	KET KET KET	RAL ((kN/m	DISTRIBUTION
DEPTH	DESCRIPTION	₹AT	NUMBER	й	<u> </u>	NDO	:VAT		NCONF		+ - ×	FIELD V & Sensit LAB V	ivity	WA ⁻	TER CC	NTEN	T (%)	g _O	NATU.	(%)
91.7	Ground Surface	STF	Ž	TYPE	ż	GR O	EE						00	1	0 2	20 3	30			GR SA SI CL
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-	Brown, moist, some organics	<u> </u>	4					-												
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6.3	Borehole terminated at 6.3 mBGS in LIMESTONE bedrock																			
PLOT-120 :	LINES I SIVE BOUIOUK																			
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	JDWATER ELEVATIONS					<u>GRAPH</u>	. 3	V3. I	Number	s refer	_	8 =3%	. .							

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CLIENT: Township of Loyalist Method: solid stem ENCL NO.: 8

PROJECT LOCATION: Diameter: 160mm O.D DATUM: Geodetic Date: May-31-2021

BH L	OCATION: N 44.214117 E -76.673795							l c	TANDAI	חם חבי	ICTO AT	TIONI TO	-CT							
	SOIL PROFILE		5	SAMPL	.ES	<u>_</u>		RESI	ISTANC	E PLO		TION TE	:51	PLAST	IC NAT MOIS CON	URAL	LIQUID		Ψ	REMARKS
(m) ELEV DEPTH	DESCRIPTION	STRATA PLOT	NUMBER	Ę,	BLOWS 0.3 m	GROUND WATER CONDITIONS	ELEVATION	SHEA	AR ST NCONF	RENG INED	TH (k	Pa) FIELD V & Sensit LAB V	ANE tivity	W _P ⊢	TER CO	w 0	LIMIT W IT (%)	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (kN/m³)	AND GRAIN SIZE DISTRIBUTION (%)
90.7	Ground Surface		Ž	TYPE	ż	8 8							00	·	10 2	20	30			GR SA SI CL
0.0	Brown, moist, some organics	1/2 1/2	1	AS				- - - -												
0.6			2	CORE			90	- - - - -												
- - - - <u>2</u> -							89	- - - - - -												
- - - - - - - -			3	CORE			88	- - - -												Water level at 2.45 mBTOP measured on June 15, 2021
- - - - - - - 4			4	CORE			87	-												3.03 mBTOP measured on June 4, 2021
- - - - - <u>5</u> - -				COR			86	-												
- - - - - - - - - - - - - - - - - - -			5	CORE			85	- - - -												
Web 90L Ldd-abstant M.Gr.120 21-titlas-to enclose	LIMESTONE bedrock					GRAPH				rs refer				at Failu						

GRAPH NOTES + ³, × ³: Numbers refer to Sensitivity O $^{8=3\%}$ Strain at Failure

ENCL NO.: 9



PROJECT: Loyalist Secondary Plan REF. NO.: 211-01353-00

CLIENT: Township of Loyalist

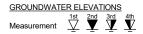
Method: solid stem

PROJECT LOCATION:

Diameter: 160mm O.D

PROJECT LOCATION: Diameter: 160mm O.0
DATUM: Geodetic Date: Jun-03-2021

	OCATION: N 44.216944 E -76.683888							Date.	Jun-c	JJ-202	. •									
БПС	SOIL PROFILE		5	SAMPL	ES			ST	FANDAF	RD PEN	ETRAT	TON TE	ST						1	
	OGIET ROTIEE	Π	HÌ			GROUND WATER CONDITIONS								PLAST	C NATI MOIS CON	URAL	LIQUID LIMIT W _L T (%)	z	TWT	REMARKS AND
(m)		STRATA PLOT			ଥାଦ	WAT	z					30 1	1	W _P	CON	N IENI	WL	ET PE (kPa)	NO (GRAIN SIZE
ELEV DEPTH	DESCRIPTION	IA P	NUMBER		BLOWS 0.3 m	P E	ELEVATION		NCONF		TH (kl +	FIELD V. & Sensiti	ANE	-		o	—	(Cu)	P. P. A. S.	DISTRIBUTION (%)
		L L	JMB	TYPE	M -	ROU	EK				- ×	LAB VA	ANE		TER CC	ONTEN	T (%)	₾.	ž	(70)
80.2 0.0	Ground Surface TOPSOIL	,7,1,1/V	Ž	Ĺ	<u>-</u>	ֿט ט	<u> </u>	2	20 4	0 6	30 E	30 10	00	1	0 2	20 3	30	Ш		GR SA SI CL
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79.6		12. 5						-												
_ 0.6	LIMESTONE and SHALE Grey, competent bedrock		1																	
-	Grey, competent actions		1					-												
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-			 	COIL				ŀ												
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			1					-												Water level at
-								-												1.7 mBTOP measured on
-			1					-												June 4, 2021
-			ł				78													Water level at 2.08 mBTOP
			1																	measured on
-			1					-												June 15, 2021
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6.4	Borehole terminated at 6.4 mBGS in LIMESTONE and SHALE bedrock																			
4																				
8			1																	
n h			<u> </u>																	
						GRAPH	3	3 1	Mumbar	o rofor		e-20/								



 $\frac{\text{GRAPH}}{\text{NOTES}} \quad +^{\,3}, \times^{\,3} \colon \stackrel{\text{Numbers refer}}{\text{to Sensitivity}}$

ENCL NO.: 10



PROJECT: Loyalist Secondary Plan REF. NO.: 211-01353-00

CLIENT: Township of Loyalist Method: solid stem

PROJECT LOCATION: Diameter: 160mm O.D DATUM: Geodetic Date: Jun-03-2021

BH LOCATION: N 44.22611 E -76.683333

BH LC	OCATION: N 44.22611 E -76.683333						_	67		DD DEN	ETDAT	ION TE	СТ	_						
	SOIL PROFILE		8	SAMPL	ES.	<u>_</u> _		RESI	STANC	RD PEN E PLOT		ION IE	:51	PLASTI	C NATI	URAL	LIQUID		∀	REMARKS
(m)		5				GROUND WATER CONDITIONS		2	20 4	0 6	0 8	30 1	00				LIQUID LIMIT	PEN.	NATURAL UNIT WT (kN/m³)	AND GRAIN SIZE
ELEV	DESCRIPTION	STRATA PLOT	œ		BLOWS 0.3 m	N O E	ELEVATION			RENG	TH (kl	Pa)	ANF	W _P		N >	W _L	SKET (K	RAL (kN/m	DISTRIBUTION
DEPTH	BESSIAI TISIN	ZAT/	NUMBER	Щ		NO LIG	I K		NCONF UICK TE	INED RIAXIAL	+ ×	FIELD V & Sensit LAB V	ivity ANE	WA	TER CC	NTEN	IT (%)	90	NATU	(%)
96.8	Ground Surface		Ž	TYPE	ż	8 8	"						00	1	0 2	20	30			GR SA SI CL
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	Brown, moist, some organics	\(\frac{1}{\gamma}\) \(\frac{1}{\gamma}\)	1				\$	L												
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90.4							1	ŀ												
6.4	Borehole terminated at 6.4 mBGS in					 	t							t					Н	
7 P.O.	SHALE bedrock					1	1													
8																				
THOSE ASS																				
->4	Continued Next Page		•			OD 4 DU	. 3					8 =3%		•						

GROUNDWATER ELEVATIONS

Measurement $\stackrel{\text{1st}}{\underline{V}}$ $\stackrel{\text{2nd}}{\underline{V}}$ $\stackrel{\text{3rd}}{\underline{V}}$ $\stackrel{\text{4th}}{\underline{V}}$







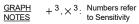


CLIENT: Township of Loyalist Method: solid stem ENCL NO.: 10

PROJECT LOCATION: Diameter: 160mm O.D DATUM: Geodetic Date: Jun-03-2021

BH L	OCATION: N 44.22611 E -76.683333					0.7				1011 7	-0-									
	SOIL PROFILE		S	AMPL	ES	~		RESI	STANC	RD PEN E PLOT		ION IE	:51	PLASTI	C NATU	JRAL	LIQUID		Þ	REMARKS
(m)		ТО			(0)	GROUND WATER CONDITIONS		2	0 4	0 6	0 8	30 1	00	PLASTI LIMIT W _P	CON	TENT	LIMIT W _L	POCKET PEN. (Cu) (kPa)	NATURAL UNIT WT (KN/m³)	AND GRAIN SIZE
ELEV DEPTH	DESCRIPTION	A PL	띪		BLOWS 0.3 m	M D M	NOIT	SHEA	AR STI	RENG	TH (k	Pa) FIELD V & Sensit	ANE	- WP		<u> </u>		Cu) (x	(kN/n	DISTRIBUTION
DEPTH		STRATA PLOT	NUMBER	TYPE		ROUN	ELEVATION	● QI	JICK TE	RIAXIAL	. ×	LAB V	ANE		TER CC			1	¥	(%)
	Continued	ST	ž		, Z	<u>2</u> 0	П	2	0 4	0 6	0 8	80 1	00	1	0 2	0	30			GR SA SI CL
																				Water level at 7.21 mBTOP
																				measured on
																				June 4, 2021
25.7-19																				
353-00 BH																				
-120 215.0																				
B-SPT PLCS																				
01105-20																				
86 M																				
	NIDMATER ELEVATIONS				(<u>GRAPH</u>	. 3	3 1	dumhar	s refer	_	R=3%		at Eailur						







CLIENT: Township of Loyalist Method: solid stem ENCL NO.: 11

PROJECT LOCATION: Diameter: 160mm O.D
DATUM: Geodetic Date: Jun-03-2021

BH LOCATION: N 44.215 E -76.66583

BH LC	OCATION: N 44.215 E -76.66583					1		l st	ANDAF	RD PEN	IFTRAT	TION TE	ST	1						
	SOIL PROFILE	_	5	AMPL	ES	Ľ.		RESI	STANC	E PLOT	\geq	TION TE		PLASTI LIMIT	C NATI	URAL	LIQUID LIMIT		MT	REMARKS
(m)		þ			ωl_	VATE	7	2		1	1	30 1	1	LIMIT W _P	CON	TENT	LIMIT W _L	POCKET PEN. (Cu) (kPa)	UNIT (°E	AND GRAIN SIZE
ELEV DEPTH	DESCRIPTION	P.	띪		BLOWS 0.3 m	V DN TION	TION	SHEA	NR STI	RENG INED	TH (kl	Pa) FIELD V & Sensit	ANE	<u>-</u>			<u> </u>	OCKE (Cu) (I	(kN/	DISTRIBUTION
DEI 111		STRATA PLOT	NUMBER	TYPE	"N"	GROUND WATER CONDITIONS	ELEVATION	● QI	JICK IF	RIAXIAL	. ×	LAB VA	ANE		TER CC		IT (%)	ď	₩	
0.0	Ground Surface TOPSOIL	7/ 1 ^N	ž	Ĺ	-	ชิ ठ	Ш	2	0 4	0 6	0 8	30 1	00	1	0 2	20	30			GR SA SI CL
0.0	Brown, moist, some organics	1/ 7/																		
-		<u>\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ </u>	1	AS																
-		12:3																		
0.6	LIMESTONE and SHALE																			
-	Grey, competent bedrock																			
1		Н																		Water level at
ŧ l]	0000																6.4 mBTOP
-		H	-	CORE																measured on June 4, 2021
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ENCL NO.: 12



PROJECT: Loyalist Secondary Plan REF. NO.: 211-01353-00

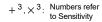
CLIENT: Township of Loyalist Method: solid stem

PROJECT LOCATION: Diameter: 160mm O.D
DATUM: Geodetic Date: Jun-03-2021

BH LOCATION: N 44.218333 E -76.668055

BHL	OCATION: N 44.218333 E -76.668055 SOIL PROFILE		S	SAMPL	FS			ST	ANDAF	RD PEN	ETRAT	TION TE	ST							
	OOIL I KOI ILL	Ι.		, L		GROUND WATER CONDITIONS		2				30 1		PLASTI LIMIT	C NATU	URAL TURE	LIQUID LIMIT	z	NATURAL UNIT WT (kN/m³)	REMARKS AND
(m)		STRATA PLOT			NS u	WAT	z	SHEA			TH /kl	L Pa\	l	W _P	V	N	W_{L}	POCKET PEN. (Cu) (kPa)	(L UNI	GRAIN SIZE
ELEV DEPTH	DESCRIPTION	TAF	3ER		BLOWS 0.3 m	JND DITIC	ATIC	O UN	NCONF	INED	+	FIELD V & Sensit LAB V	ANE		(ŠŠ.	TURA (K)	DISTRIBUTION (%)
		TRA	NUMBER	TYPE	"Z	SROC	ELEVATION	● Ql 2		RIAXIAL 0 6	. X 60 8	LAB VA	ANE 00		TER CC		I (%) 30		₹	
0.0	Ground Surface TOPSOIL	7/ 1/4.	É	-	=	0 0			-				1	<u> </u>			-			GR SA SI CL
	Brown, moist, some organics	1/2 1/2 1/2 1/2 1/2 1/2																		
-		10	1	AS																
-		<u> </u>																		
0.6		F · ÷																		
-	Grey, moderate fractures, slightly weathered, medium strong																			
1	weathered, medium strong																			
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6.6	Borehole terminated at 6.6 mBGS in LIMESTONE and SHALE bedrock																			
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GRAPH NOTES +

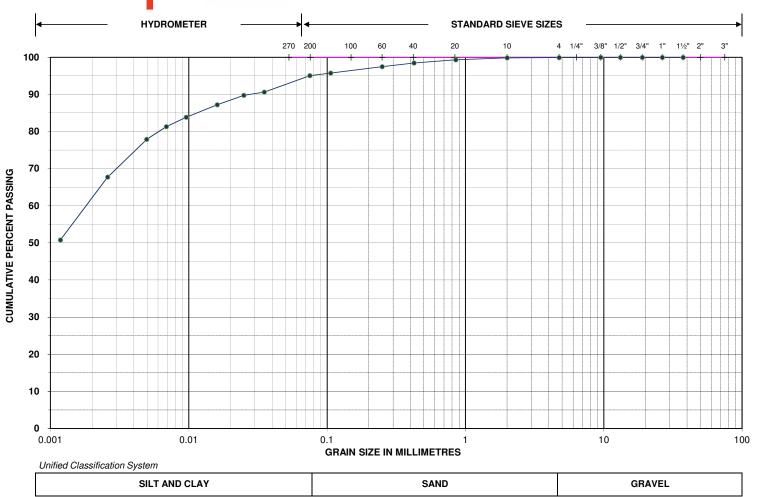


APPENDIX

B PHYSICAL LABORATORY DATA



PARTICLE SIZE DISTRIBUTION ASTM D422



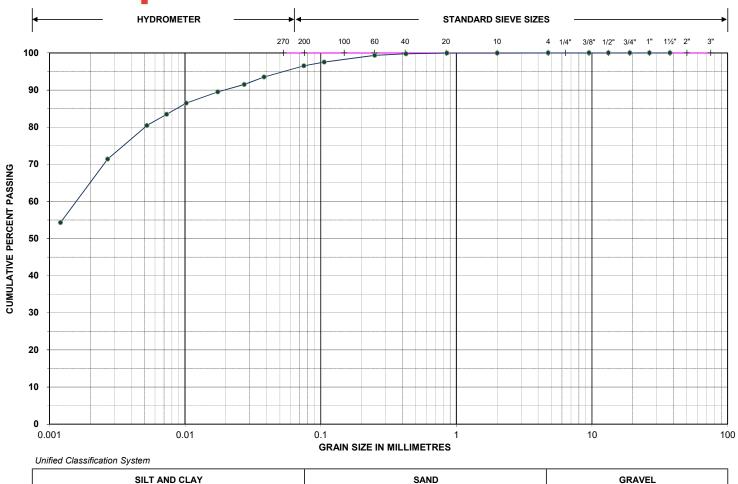
Project Name:Loyalist Secondary PlanProject No.:211-01353-00

Location ID.: BH21-2 Sample No./Depth: AS2

Sieve Size	% Passing Coarse	Sieve Size	% Passing Fine	Hydrometer (mm)	% Passing
37.5 mm	100.0	2.00 mm	99.9	0.035	90.6
26.5 mm	100.0	0.850 mm	99.3	0.016	87.2
19.0 mm	100.0	0.425 mm	98.5	0.007	81.3
13.2 mm	100.0	0.250 mm	97.5	0.003	67.8
9.50 mm	100.0	0.106 mm	95.7	0.001	50.8
4.75 mm	99.9	0.075 mm	95.1		







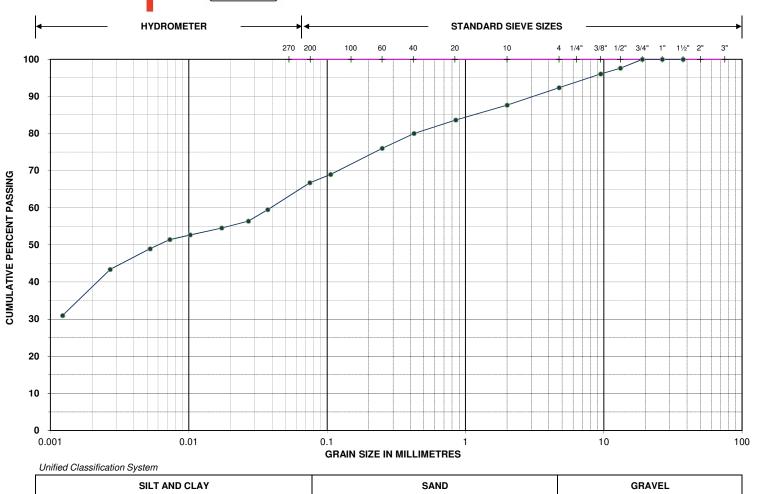
Project Name: Loyalist Secondary Plan Project No.: 211-01353-00

BH21-03 Location ID.: Sample No./Depth: AS2 & AS3

Sieve Size	% Passing Coarse	Sieve Size	% Passing Fine	Hydrometer (mm)	% Passing
37.5 mm	100.0	2.00 mm	100.0	0.038	93.5
26.5 mm	100.0	0.850 mm	100.0	0.017	89.5
19.0 mm	100.0	0.425 mm	99.8	0.007	83.5
13.2 mm	100.0	0.250 mm	99.4	0.003	71.4
9.50 mm	100.0	0.106 mm	97.5	0.001	54.3
4.75 mm	100.0	0.075 mm	96.5		



PARTICLE SIZE DISTRIBUTION ASTM D422



Project Name:Loyalist Secondary PlanProject No.:211-01353-00

Location ID.: BH21-03 Sample No./Depth: AS4

Sieve Size	% Passing Coarse	Sieve Size	% Passing Fine	Hydrometer (mm)	% Passing
37.5 mm	100.0	2.00 mm	87.7	0.037	59.5
26.5 mm	100.0	0.850 mm	83.7	0.017	54.5
19.0 mm	100.0	0.425 mm	80.0	0.007	51.4
13.2 mm	97.6	0.250 mm	76.0	0.003	43.4
9.50 mm	96.1	0.106 mm	69.0	0.001	31.0
4.75 mm	92.4	0.075 mm	66.7		

Liquid Limit Test

Number of Shocks	19	25	35
Tin No.			
Tin + Wet soil	38.2	38.3	28.2
Tin + Dry soil	34.6	34.7	25.3
Wt. of Water	3.6	3.65	2.9
Wt. of Tin	28.3	28.2	19.9
Wt. of Dry Soil	6.3	6.5	5.4
Water Content	57	56	54

Plastic Limit Test

Tin No.		
Tin + Wet soil	34.5	26.6
Tin + Dry soil	33.2	25.1
Wt. of Water	1.3	1.5
Wt. of Tin	28.4	19.8
Wt. of Dry Soil	4.8	5.3
Water Content	27	29

Liquid Limit, (W_L)	56
Plastic Limit, (WP)	28
Plasticity Index $(I_P=W_L-W_P)$	28
Natural Water Content, W	52
Liquidity Index $(I_L=W-W_P/W_L-W_P)$	1

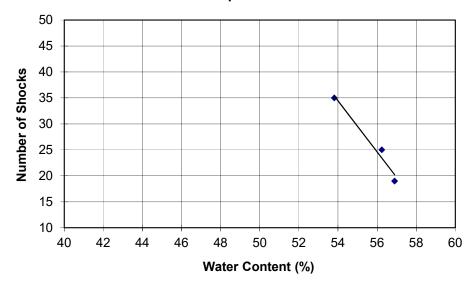
Natural Water Content

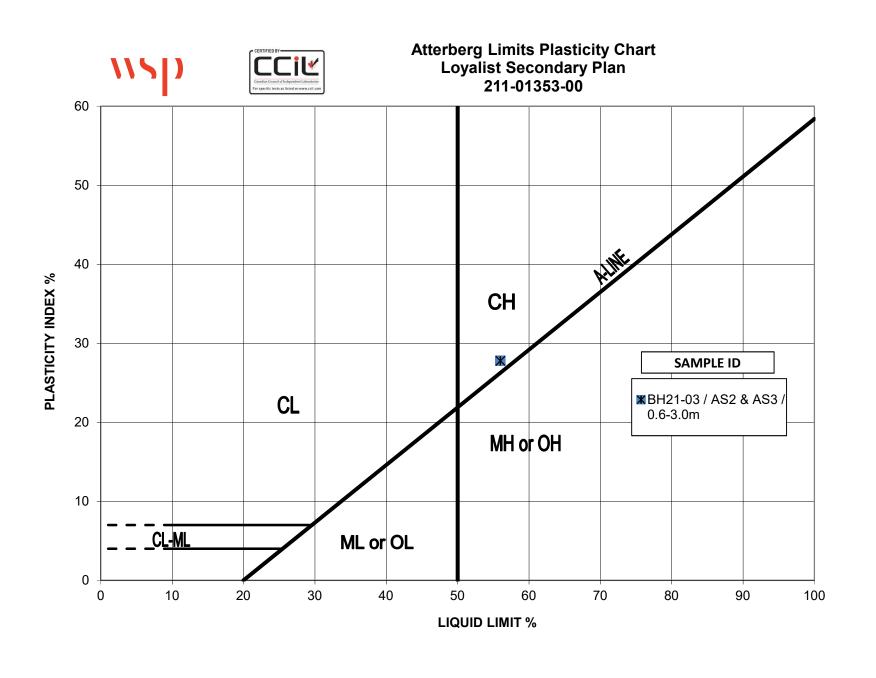
KA
98.4
70.1
28.3
15.6
54.5
51.9

Control Results

Liquid Limit, (W _L)	31
Plastic Limit, (WP)	19
Plasticity Index $(I_P=W_L-W_P)$	12

Liquid Limit







MOISTURE CONTENTS

Project Location:Loyalist Secondary PlanTech: LEKFile No.:211-01353-00Date: 15-Jun-21

rne no.:	211-01333-00		Date.	13-Juii-21
TIN NO.	HL-20	LB6		
BOREHOLE NO.	BH21-02	BH21-03		
SAMPLE & DEPTH	AS2 / 0.6-1.5m	AS4 / 3.0-5.0m		
WT of TIN & WET SOIL (g)	100.8	142.4		
WT of TIN & DRY SOIL (g)	82.9	105.3		
WT of WATER (g)	17.9	37.1		
TARE WT (g)	16.8	15.0		
WT of DRY SOIL (g)	66.1	90.3		
MOISTURE CONTENT	27.1%	41.0%		
MOISTORE CONTENT	27.170	41.076		
TIN NO.			T T	
BOREHOLE NO.				
SAMPLE & DEPTH				
WT of TIN & WET SOIL (g)				
WT of TIN & DRY SOIL (g)			 	
WT of WATER (g)				
TARE WT (g)				
WT of DRY SOIL (g) MOISTURE CONTENT				
MOISTURE CONTENT				
TIN NO.				
BOREHOLE NO.				
SAMPLE & DEPTH				
WT of TIN & WET SOIL (g)				
WT of TIN & DRY SOIL (g)				
WT of WATER (g)				
TARE WT (g)				
WT of DRY SOIL (g)				
MOISTURE CONTENT				
TIN NO.				
BOREHOLE NO.				
SAMPLE & DEPTH				
WT of TIN & WET SOIL (g)				
WT of TIN & DRY SOIL (g)				
WT of WATER (g)				
TARE WT (g)				
WT of DRY SOIL (g)				
MOISTURE CONTENT				
TIN NO.				
BOREHOLE NO.				
SAMPLE & DEPTH				
WT of TIN & WET SOIL (g)				
WT of TIN & DRY SOIL (g)				
WT of WATER (g)				
TARE WT (g)				
WT of DRY SOIL (g)				
MOISTURE CONTENT				
·			l l	



MOISTURE CONTENTS

Project Location:Loyalist Secondary PlanTech: LEKFile No.:211-01353-00Date: 18-Jun-21

TIN NO.	AR8	KA	RE		
BOREHOLE NO.	BH21-03	BH21-03	BH21-03		
SAMPLE & DEPTH		AS2	AS3		
WT of TIN & WET SOIL (g)	98.4	65.9	59.5		
WT of TIN & DRY SOIL (g)	70.1	47.4	43.3		
WT of WATER (g)	28.2	18.6	16.3		
TARE WT (g)	15.6	10.2	10.2		
WT of DRY SOIL (g)	54.5	37.2	33.1		
MOISTURE CONTENT	51.8%	49.9%	49.2%		
TIN NO.					
BOREHOLE NO.					
SAMPLE & DEPTH					
WT of TIN & WET SOIL (g)					
WT of TIN & DRY SOIL (g)					
WT of WATER (g)					
TARE WT (g)					
WT of DRY SOIL (g)					
MOISTURE CONTENT					
TIN NO.					
BOREHOLE NO.					
SAMPLE & DEPTH					
WT of TIN & WET SOIL (g)					
WT of TIN & DRY SOIL (g)					
WT of WATER (g)					
TARE WT (g)					
WT of DRY SOIL (g)					
MOISTURE CONTENT					
			•		
TIN NO.					
BOREHOLE NO.					
SAMPLE & DEPTH					
WT of TIN & WET SOIL (g)					
WT of TIN & DRY SOIL (g)					
WT of WATER (g)					
TARE WT (g)					
WT of DRY SOIL (g)					
MOISTURE CONTENT					
TIN NO.					
BOREHOLE NO.					
SAMPLE & DEPTH					
WT of TIN & WET SOIL (g)					
WT of TIN & DRY SOIL (g)					
WT of WATER (g)					
TARE WT (g)					
WT of DRY SOIL (g)					
MOISTURE CONTENT					
<u> </u>		•	•	•	

APPENDIX

GROUNDWATER
MEASUREMENTS



Table 1 Monitoring Well Installation and Groundwater Levels

	Monitorin	g Well ID	BH21-01	BH21-03	BH21-04	BH21-06	BH21-07	BH21-09	BH21-11	BH21-12
	Installed By		WSP	WSP	WSP	WSP	WSP	WSP	WSP	WSP
	Installation Date		1-Jun-21	2-Jun-21	1-Jun-21	1-Jun-21	31-May-21	31-May-21	3-Jun-21	3-Jun-21
	Well Status		Active	Active	Active	Active	Active	Active	Active	Active
W	ell Inner Diameter	(mm)	51	51	51	51	51	51	51	51
Casing Type (Flushm	ount / Monument)		Monument	Monument	Monument	Monument	Monument	Monument	Monument	Monument
Тор	of Pipe Elevation	(masl)	102.84	93.48	93.50	96.92	97.68	91.76	80.98	97.62
Ground	Surface Elevation	(masl)	102.08	92.87	92.89	96.11	96.84	90.74	80.17	96.78
Bottom of Cor	ncrete Seal/Top of	(mbgs)	1.22	1.22	1.22	1.22	1.22	0.9	0.9	0.9
	Bentonite Seal	(masl)	100.9	91.6	91.7	94.9	95.6	89.8	79.3	95.9
Bottom of Bentonite	Seal/Top of Sand	(mbgs)	1.5	1.5	1.5	1.5	1.5	1.2	1.2	1.2
	Pack	(masl)	100.6	91.3	91.4	94.6	95.3	89.5	79.0	95.6
Top of Well Screen	(mbgs)	1.8	2.0	2.0	1.8	2.0	1.8	1.6	1.7	
	op or well screen	(masl)	100.3	90.9	90.9	94.3	94.9	89.0	78.6	95.1
	Screen Length	(m)	4.6	3.0	4.6	4.6	4.6	4.6	4.6	4.6
	Bottom of Screen	(mbgs)	6.4	5.0	6.6	6.4	6.6	6.3	6.2	6.3
	Bollom of Screen	(masl)	95.7	87.8	86.3	89.7	90.3	84.4	74.0	90.5
	Depth of GW	(mbtop)	7.4	2.0	7.5	7.5	7.3	3.0	1.7	7.2
4lun-21	GW Elevation	(masl)	95.4	91.4	86.0	89.4	90.4	88.7	79.3	90.4
Ground Sur Bottom of Concre E Bottom of Bentonite Sea Top c S Bottom 4-Jun-21	GWL above Well Screen		No (dry)	Yes	No (dry)	No (dry)	No (dry)	Yes	Yes	No
	Depth of GW	(mbtop)	-	2.1	-	-	-	2.5	2.1	N/A
15-Jun-21	GW Elevation	(masl)	-	91.4	-	-	-	89.3	78.9	N/A
10 Juli-21	GWL above Well Screen		-	Yes	-	-	-	Yes	Yes	Well Locked

Notes:

Bold: Parameter exceeds the PWQOs.

MECP Water Well Records

Well Record

Date 9/11/1951	El 04													
DD/MM/YYYY	/ Do	.5 (masl) mestic	Easting 36506 Water Supply	0	Northing UTM RC	4897282 9 unknov	n UTM			SWL Pumping WL Pump Rate	5.5 18.2	(mbgs) (mbgs) (LPM)	76.1	(masl) (masl) /
	Water Found 9.	1 (mbgs)	72.4 (masl)		FRESH					Spec. Cap.		(LPM/m)	Hour	/ Minute
	Casing Diameter 6	inch	Casing Material:	STEEL			Depth (m) 0.0	Elev (masl) 81.5	Color			Soil Descr	intions	
	Top of Screen	(mbgs)	Bottom of Screen		(mbgs)		0.0	61.5	Color			Soli Descr	iptions	
	Screen Interval	(m)												
							0.9	80.6			SHALE /			I
							16.8	64.8		LIM	IESTONE /			I
3700713	Lot 030 Cond	: 01	ERNES	TOWN	TOWNSHI	P / LENNO	X & ADDIN	IGTON		Flowing? N				
Date 7/10/1953	Elev 81	.5 (masl)	Easting 36502	7	Northing	4897255				SWL	6.1	(mbgs)	75.4	(masl)
DD/MM/YYYY		mestic	Water Supply		UTM RC		n UTM			Pumping WL	6.1	(mbgs)	75.4	(masl)
	Water Found 12				FRESH					Pump Rate Spec. Cap.	45.5 9,999.99	(LPM) (LPM/m)		/ 0 / Minute
	Casing Diameter 6	inch	Casing Material:	STEEL			Depth (m)	Elev (masl)		эрес. Сар.	3,333.33	(LFW/III)	rioui	/ Williate
	Top of Screen	(mbgs)	Bottom of Screen		(mbgs)		0.0	81.5	Color			Soil Descr	riptions	
	•		Bottom of Screen		(IIIDgs)									
	Screen Interval	(m)												,
							2.7 13.7	78.8 67.8		LIM	SHALE / IESTONE /			/ /
0700744	1-1-000	0.4		TOWY	TOWNS	D / I ENN:0				Flowing? N				•
3700714	Lot 030 Cond	: 01	ERNES	TOWN	TOWNSHI	P / LENNO	X & ADDIN	IGTON		Flowing? N SWL	3.4	(mbgs)	75.8	(masl)
Date 11/15/1953	Elev 79	.1 (masl)	Easting 36525	2	Northing	4897008				Pumping WL	9.8	(mbgs)	69.4	(masi)
DD/MM/YYYY		mestic	Water Supply		UTM RC	9 unknov	n UTM			Pump Rate	59.1	(LPM)		/ 0
	Water Found 12	.2 (mbgs)	66.9 (masl)		FRESH					Spec. Cap.	9.23	(LPM/m)	Hour	/ Minute
	Casing Diameter 6	inch	Casing Material:	STEEL			Depth (m) 0.0	Elev (masl) 79.1	Color			Soil Descr	intions	
	Top of Screen	(mbgs)	Bottom of Screen		(mbgs)		0.0	79.1	Color			Soli Desci	iptions	
	Screen Interval	(m)												
							0.9	78.2			TOPSOIL /	MEDIUM	SAND	I
							13.7	65.4	BLUE	LIM	IESTONE /			1
3700715	Lot 030 Cond	01	ERNES	TOWN	TOWNSHI	P / LENNO	X & ADDIN	IGTON		Flowing? N				
Date 4/19/1955	Elev 81	.3 (masl)	Easting 36500	e	Northing	4897249				SWL	5.5	(mbgs)	75.8	(masl)
DD/MM/YYYY		nestic	Water Supply	0	UTM RC		n HTM			Pumping WL	12.2	(mbgs)	69.1	(masl)
<i>DD</i> /IIIII// 1 1 1 1	Water Found 24				FRESH	o ulikilov	,,, O , III			Pump Rate		(LPM)	Harm	/ / Minute
		inch	Casing Material:	STEEL			Depth (m)	Elev (masl)		Spec. Cap.		(LPM/m)	nour	, williute
	•		-				0.0	81.3	Color			Soil Descr	iptions	
	Top of Screen	(mbgs)	Bottom of Screen		(mbgs)									
	Screen Interval	(m)												
							0.6	80.7			CLAY /			<i>!</i>
							25.6	55.7			IESTONE /			/
3700716	Lot 030 Cond	: 01	ERNES	TOWN	TOWNSHI	P / LENNO	X & ADDIN	IGTON		Flowing? N SWL		(mbas)	70.4	(masl)
Date 6/29/1956	Elev 77	.6 (masl)	Easting 36516	2	Northing	4897336				SWL Pumping WL	5.5 15.2	(mbgs) (mbgs)	72.1 62.4	(masi) (masl)
DD/MM/YYYY		mestic	Water Supply		UTM RC	9 unknov	n UTM			Pump Rate	18.2	(LPM)		/ 0
	Water Found 10	.4 (mbgs)	67.3 (masl)		FRESH					Spec. Cap.	1.86	(LPM/m)		/ Minute
	Casing Diameter 6	inch	Casing Material:	STEEL			Depth (m)	Elev (masl)	0-1	•		. ,		
	Top of Screen	(mbgs)	Bottom of Screen		(mbgs)		0.0	77.6	Color			Soil Descr	riptions	
	Screen Interval	(m)												

Vell Record #											
				0.9	76.7		MEDI	UM SAND /	STO	NES /	
				15.2	62.4	BLUE		MESTONE /		1	
				25.9	51.7	WHITE	LIN	MESTONE /			
3700717	Lot 030 Conc 01	ERNEST	OWN TOWNSHIP	/ LENNOX & ADDI	NGTON		Flowing? N				_
Date 6/30/1956	Elev 76.9 (masl)	Easting 365212	Northing	4897322			SWL	11.6	(mbgs)	65.3	(masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC				Pumping WL	25.9	(mbgs)	51.0	(masl)
22,	Water Found 24.7 (mbgs)	52.2 (masl)	FRESH				Pump Rate	13.6	(LPM)		/ 0
		` ,		Depth (m)	Elev (masl)		Spec. Cap.	0.95	(LPM/m)	Hour /	Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	0.0	76.9	Color			Soil Desc	riptions	
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)								
	Screen Interval (m)										
				25.9	51.0	BLUE	LIN	MESTONE /		1	
3700718	Lot 030 Conc 01	ERNEST	OWN TOWNSHIP	/ LENNOX & ADDI	NGTON		Flowing? N				
Date 8/16/1962	Elev 75.5 (masl)	Easting 365171	Manthina	4897301			SWL	4.9	(mbgs)	70.7	(masl)
DD/MM/YYYY	/ Domestic	Easting 365171 Water Supply	Northing UTM RC) m - 300 m		Pumping WL	18.9	(mbgs)	56.6	(masl)
טט/ואוואו/ ד ד ד ד	Water Found 14.6 (mbgs)	60.9 (masl)	FRESH	margin or error: 100	iii - 300 iii		Pump Rate	18.2	(LPM)		/ 0
		, ,		Depth (m)	Elev (masl)		Spec. Cap.	1.30	(LPM/m)	Hour /	Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	0.0	75.5	Color			Soil Desc	riptions	
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)								
	Screen Interval (m)										
				0.6	74.9			TOPSOIL /	SHA	LE /	
				6.1	69.4			SHALE /	0		
				18.9	56.6	GREY	LIN	MESTONE /		1	
3700721	Lot 031 Conc 01	FRNEST	OWN TOWNSHIP	/ LENNOX & ADDI	NGTON		Flowing? N				
		_					SWL	4.6	(mbgs)	81.8	(masl)
Date 5/27/1957	Elev 86.4 (masl)	Easting 365260	•	4897657			Pumping WL	15.2	(mbgs)	71.2	(masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC	9 unknown UTM			Pump Rate	31.8	(LPM)	1 .	/ 0
	Water Found 13.7 (mbgs)	72.7 (masl)	FRESH	5 4 4 3	=		Spec. Cap.	2.98	(LPM/m)	Hour /	Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	Depth (m) 0.0	Elev (masl) 86.4	Calan			Call Dage		
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)	0.0	80.4	Color			Soil Desc	riptions	
	Screen Interval (m)										
	,			2.4	04.0	BLUE		CLAY /		,	
				2.4 18.3	84.0 68.1	BLUE	1 18	/ CLAY // MESTONE		,	
						BLUE				,	
3700722	Lot 031 Conc 01	ERNEST	OWN TOWNSHIP	/ LENNOX & ADDI	NGTON		Flowing? N SWL	6.1	(mbas)	74.4	(masl)
Date 10/13/1959	Elev 80.5 (masl)	Easting 365300	Northing	4897422			SWL Pumping WL	6.1 11.6	(mbgs) (mbgs)	74.4 68.9	(masi) (masi)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC	5 margin of error : 100) m - 300 m		Pump Rate	45.5	(IIIDgs) (LPM)		(IIIasi) / 0
	Water Found 11.6 (mbgs)	68.9 (masl)	FRESH	-			Spec. Cap.	8.29	(LPM/m)		/ Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)		opeo. oap.	JU	,y	riodi /	
	· ·	•		0.0	80.5	Color			Soil Desc	riptions	
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)								
	Screen Interval (m)										
				11.3	69.2			CLAY /	MEDIUM	SAND /	BOULDERS

Well Record #										
3700723	Lot 031 Conc 01	ERNESTOWN T	OWNSHIP /	LENNOX & ADDIN	GTON		Flowing? N			
Date 11/5/1960 DD/MM/YYYY	Elev 86.2 (masl) / Livestock Water Found 18.9 (mbgs) Casing Diameter 6 inch	Easting 364833 Water Supply		4897893 unknown UTM Depth (m) 0.0	Elev (masl)	Oalaa	SWL Pumping WL Pump Rate Spec. Cap.	17.1 36.3 0.0 0.00	(mbgs) (mbgs) (LPM) (LPM/m)	69.1 (masl) 49.9 (masl) 1 / 0 Hour / Minute
	Top of Screen (mbgs) Screen Interval (m)	Bottom of Screen (r	mbgs)	0.0	86.2	Color			Soil Descri	ptions
				1.2 36.3	84.9 49.9	BLUE	LIN	SHALE / MESTONE /		/
3700724	Lot 031 Conc 01	FRNESTOWN T	OWNSHIP /	LENNOX & ADDIN		BLUL	Flowing? N			,
Date 7/18/1961 DD/MM/YYYY	Elev 83.1 (masl) / Livestock Water Found 24.7 (mbgs)	Easting 365347 Water Supply 58.4 (masl)		4897316 margin of error : 100			SWL Pumping WL Pump Rate Spec. Cap.	19.8 28.3 13.6 1.60	(mbgs) (mbgs) (LPM) (LPM/m)	63.2 (masl) 54.7 (masl) 1 / 0 Hour / Minute
	Casing Diameter 6 inch Top of Screen (mbgs) Screen Interval (m)	Casing Material: STEEL Bottom of Screen (r	mbgs)	0.0	83.1	Color			Soil Descri	ptions
				0.3 2.4 29.6	82.8 80.6 53.5	BLUE		TOPSOIL / SHALE / MESTONE /	LIMESTO	/ DNE / /
3700725	Lot 031 Conc 01	ERNESTOWN T	OWNSHIP /	LENNOX & ADDIN	GTON		Flowing? N			
Date 4/23/1962 DD/MM/YYYY	Elev 87.3 (masl) / Domestic Water Found 28.0 (mbgs) Casing Diameter 6 inch	Easting 365398 Water Supply 59.3 (masl) Casing Material: STEEL	Northing UTM RC 5 FRESH	4897367 margin of error : 100 Depth (m)	m - 300 m Elev (masl)		SWL Pumping WL Pump Rate Spec. Cap.	6.1 31.4 4.5 0.18	(mbgs) (mbgs) (LPM) (LPM/m)	81.3 (masl) 56.0 (masl) 1 / 0 Hour / Minute
	Top of Screen (mbgs) Screen Interval (m)	3	mbgs)	0.0	87.3	Color			Soil Descri	ptions
				5.8 31.4	81.6 56.0	BLUE	LIN	SHALE /		/
3700726	Lot 031 Conc 01	ERNESTOWN T	OWNSHIP /	LENNOX & ADDIN		2202	Flowing? N		(mbgs)	73.5 (masl)
Date 1/5/1963 DD/MM/YYYY	Elev 77.7 (masl) / Domestic Water Found 21.3 (mbgs)	Easting 365199 Water Supply 56.4 (masl)	Northing UTM RC 5 FRESH	4897318 margin of error : 100			Pumping WL Pump Rate Spec. Cap.	20.7 31.8 1.93	(mbgs) (LPM) (LPM/m)	57.0 (masl) 1 / 30 Hour / Minute
	Casing Diameter 6 inch Top of Screen (mbgs)	Casing Material: STEEL Bottom of Screen (r	mbgs)	Depth (m) 0.0	Elev (masl) 77.7	Color			Soil Descri	
	Screen Interval (m)	DOMOIII OI GOIGEII (I	ingaj							
				0.3 5.5	77.4 72.2		LIN	CLAY /		/ /
				25.0	52.7	BLUE	LIN	MESTONE /		1

Well Record #										
3700727	Lot 031 Conc 01	ERNESTOW	N TOWNSHIP	/ LENNOX & ADDII	NGTON		Flowing? N			
Date 5/1/1964 DD/MM/YYYY	Elev 78.4 (masl) / Domestic	Easting 365147 Water Supply	Northing UTM RC	4897334 5 margin of error : 100) m - 300 m		SWL Pumping WL Pump Rate	7.9 27.4 9.1	(mbgs) (mbgs) (LPM)	70.4 (masl) 50.9 (masl) 1 / 0
	Water Found 7.0 (mbgs) 71.3 (masl)	FRESH				Spec. Cap.	0.47	(LPM/m)	Hour / Minute
	Casing Diameter 6 inch Top of Screen (mbgs)	Casing Material: STE Bottom of Screen	EL (mbgs)	Depth (m) 0.0	Elev (masl) 78.4	Color			Soil Descript	tions
	Screen Interval (m)									
				0.3 28.7	78.1 49.7	BLUE		TOPSOIL / IESTONE /		<i>! !</i>
3700728	Lot 031 Conc 01	ERNESTOW	N TOWNSHIP	/ LENNOX & ADDII	NGTON		Flowing? N			
Date 10/5/1965	Elev 81.5 (masl)	Easting 365328	Northing	4897351			SWL Pumping WL	12.8 22.6	(mbgs) (mbgs)	68.7 (masl) 59.0 (masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC	5 margin of error : 100	m - 300 m		Pump Rate	27.3	(LPM)	1 / 0
	Water Found 22.6 (mbgs		FRESH	Depth (m)	Elev (masl)		Spec. Cap.	2.80	(LPM/m)	Hour / Minute
	Casing Diameter 6 inch	Casing Material: STE		0.0	81.5	Color			Soil Descript	tions
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)							
	Screen Interval (m)			24	70.4			011415 /	LIMEGEO	NE /
				2.1 23.8	79.4 57.7	BLUE	LIN	SHALE / IESTONE /	LIMESTON	NE / /
3700729	Lot 031 Conc 01	ERNESTOW	N TOWNSHIP	/ LENNOX & ADDII	NGTON		Flowing? N			
Date 4/18/1967	Elev 77.4 (masl)	Easting 365376	Northing	4897197			SWL	0.9	(mbgs)	76.5 (masl)
DD/MM/YYYY	/ Municipal	Water Supply	UTM RC		m - 300 m		Pumping WL Pump Rate	32.0 477.3	(mbgs) (LPM)	45.4 (masl) 3 / 0
	Water Found 6.7 (mbgs) 70.7 (masl)	FRESH	-			Spec. Cap.	15.35	(LPM/m)	Hour / Minute
	Casing Diameter 6 inch	Casing Material: STE	EL	Depth (m) 0.0	Elev (masl) 77.4	Color			Soil Descript	tions
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)	5.5		00.01			Con Descrip	
	Screen Interval (m)									
				2.4	75.0	BLUE		CLAY /		<i>I</i> <i>I</i>
0700700	Lat 000 Oama 04	FRAFOTOW	AL TOWALOUR	15.2	62.2	BLUE	Flowing? N	IESTONE /		
3700730	Lot 032 Conc 01			¹ LENNOX & ADDII	NGTON		SWL	12.2	(mbgs)	80.8 (masl)
Date 7/2/1953 DD/MM/YYYY	Elev 93.0 (masl) / Domestic	Easting 366032 Water Supply	Northing UTM RC	4897043 9 unknown UTM			Pumping WL	15.2	(mbgs)	77.8 (masl)
DD/MINI/TTTT	Water Found 38.1 (mbgs		FRESH	9 UIIKIIOWII OTWI			Pump Rate Spec. Cap.	45.5 14.91	(LPM) (LPM/m)	1 / 0 Hour / Minute
	Casing Diameter 6 inch	Casing Material: STE	EL	Depth (m)	Elev (masl)		орес. Сар.	14.51	, ,	
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)	0.0	93.0	Color			Soil Descript	tions
	Screen Interval (m)									
				4.3	88.7			SHALE /		1
				41.1	51.9		LIN	IESTONE /		1
3700731	Lot 032 Conc 01	ERNESTOW	N TOWNSHIP	/ LENNOX & ADDII	NGTON		Flowing? N		(mala ma)	75.4 (mag))
Date 10/28/1953	Elev 82.7 (masl)	Easting 366072	Northing	4896857			SWL Pumping WL	7.6 10.7	(mbgs) (mbgs)	75.1 (masl) 72.0 (masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC	9 unknown UTM			Pump Rate	45.5	(LPM)	1 / 0
	Water Found 24.4 (mbgs Casing Diameter 6 inch) 58.3 (masl) Casing Material: STE	FRESH	Depth (m)	Elev (masl)		Spec. Cap.	14.91	(LPM/m)	Hour / Minute
	Top of Screen (mbgs)	Bottom of Screen	:EL (mbgs)	0.0	82.7	Color			Soil Descript	tions
	Screen Interval (m)	Bottom or Screen	(IIID95)							
	October interval (iii)			3.7	79.0			SHALE /		1
21-Jun-21								,		*

				26.8	55.9		LIN	IESTONE /		/	
3700732	Lot 032 Conc 01	ERNES'	TOWN TOWNSHI	P / LENNOX & ADI	DINGTON		Flowing? N				
Date 4/13/1954	Elev 93.6 (masl)	Easting 365995	. Northing	4897045			SWL	24.4	(mbgs)	69.2	(masl)
DD/MM/YYYY	/ Domestic	Water Supply	Northing UTM RC				Pumping WL	35.1	(mbgs)	58.6	(masl)
DD/MIW/1111	Water Found 41.1 (mb		FRESH	5 UIIKIIOWII OTW			Pump Rate	36.4	(LPM)		/ 0
	•			Depth (m)	Elev (masl)		Spec. Cap.	3.41	(LPM/m)	Hour	/ Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	0.0	93.6	Color			Soil Descr	iptions	
	Top of Screen (mbg) Bottom of Screen	(mbgs)							•	
	Screen Interval (m)										
				1.2	92.4	BLUE		CLAY /		1	
				41.8	51.9	BLUE	LIN	IESTONE /		1	
2700722	Lot 032 Conc 01	EDNEC.	TOWN TOWNSHI	D / I ENNOV & ADI	DINCTON		Flowing? N				
3700733	Lot 032 Conc 01	EKNES	IOWN IOWNSHI	P / LENNOX & ADI	DINGTON		SWL	24.4	(mbgs)	62.8	(masl)
Date 6/28/1954	Elev 87.2 (masl)	Easting 365598	8 Northing	4897112			Pumping WL	25.9	(mbgs)	61.2	(masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC	9 unknown UTM			Pump Rate	77.3	(LPM)		/ 0
	Water Found 38.1 (mb	ys) 49.1 (masl)	FRESH				Spec. Cap.	50.71	(LPM/m)	Hour	/ Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)		-		0 11 -		
	Top of Screen (mbg) Bottom of Screen	(mbgs)	0.0	87.2	Color			Soil Descr	riptions	
	Screen Interval (m)		,								
	October interval (III)										
				0.9	86.2	DI IIE	,	CLAY /		1	
				39.3	47.8	BLUE		IESTONE /		/	
3700734	Lot 032 Conc 01	ERNES'	TOWN TOWNSHI	P / LENNOX & ADI	DINGTON		Flowing? N		(male en)	04.5	(P
Date 10/16/1956	Elev 90.6 (masl)	Easting 365608	3 Northing	4897831			SWL	9.1	(mbgs)	81.5 54.6	(masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC	9 unknown UTM			Pumping WL Pump Rate	36.0 9.1	(mbgs) (LPM)		(masl) / 30
	Water Found 18.9 (mb	ys) 71.7 (masl)	FRESH				Spec. Cap.	0.34	(LPM/m)		/ Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)				(=)		
	Top of Screen (mbg	· ·	(mbgs)	0.0	90.6	Color			Soil Descr	riptions	
) Bottom of Screen	(mbgs)								
	Screen Interval (m)										
				3.4	87.2	BLUE		CLAY /		1	
				36.0	54.6	BLUE	LIN	IESTONE /		/	
3700735	Lot 032 Conc 01	ERNES'	TOWN TOWNSHI	P / LENNOX & ADI	DINGTON		Flowing? N				
Date 5/30/1957	Elev 89.7 (masl)	Easting 365523	3 Northing	4897197			SWL	12.2	(mbgs)	77.5	(masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC				Pumping WL	18.3	(mbgs)	71.4	(masl)
	Water Found 37.5 (mb		FRESH	UIIKIIOWII U I W			Pump Rate	22.7	(LPM)		/ 0
				Depth (m)	Elev (masl)		Spec. Cap.	3.73	(LPM/m)	Hour	/ Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	0.0	89.7	Color			Soil Descr	iptions	
	Top of Screen (mbg) Bottom of Screen	(mbgs)							•	
	Screen Interval (m)										
				0.3	89.4			TOPSOIL /		1	
				38.1	51.6	BLUE		IESTONE /		1	
3700736	Lot 032 Conc 01	FRNES.	TOWN TOWNSHI	P / LENNOX & ADI	DINGTON		Flowing? N				
		_			210 i Oi4		SWL	6.1	(mbgs)	90.4	(masl)
Date 1/15/1958	Elev 96.5 (masl)	Easting 365895	_	4897133			Pumping WL	30.2	(mbgs)	66.3	(masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC	5 margin of error : 1	00 m - 300 m		Pump Rate	9.1	(LPM)	1	/ 0
	Water Found 14.6 (mb	ys) 81.9 (masl)	FRESH	Danth ()	Flow (mass)		Spec. Cap.	0.38	(LPM/m)	Hour	/ Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	Depth (m) 0.0	Elev (masl) 96.5	Color			Soil Descr	intions	
	Top of Screen (mbg) Bottom of Screen	(mbgs)	0.0	30.3	Color			Juli Descr	ipuons	
	Screen Interval (m)										

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				0.9	95.6		LIM	IESTONE /		1
				30.2	66.3	GREY	LIM	IESTONE /		I
3700737	Lot 032 Conc 01	ERNESTO	WN TOWNSHIP	/ LENNOX & ADDIN	IGTON		Flowing? N			
Date 4/27/1961	Elev 86.3 (masl)	Easting 365539	Northing	4897139			SWL	16.5	(mbgs)	69.8 (masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC		m - 300 m		Pumping WL	43.3	(mbgs)	43.0 (masl)
DD/MIM/1111	Water Found 23.8 (mbgs)	62.5 (masl)	FRESH	o margin or error . 100	III - 300 III		Pump Rate	4.5	(LPM)	1 / 0
	Casing Diameter 6 inch	` ,	TEEL	Depth (m)	Elev (masl)		Spec. Cap.	0.17	(LPM/m)	Hour / Minute
	• • • • • • • • • • • • • • • • • • • •	3		0.0	86.3	Color			Soil Desc	riptions
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)							
	Screen Interval (m)									
				1.5	84.7	BLUE		CLAY /		1
				5.2	81.1			SHALE /		1
				43.3	43.0	BLUE	LIM	IESTONE /		
3700738	Lot 032 Conc 01	ERNESTO	WN TOWNSHIP	/ LENNOX & ADDIN	IGTON		Flowing? N			
Date 9/22/1962	Elev 90.8 (masl)	Easting 366023	Northing	4896994			SWL	14.6	(mbgs)	76.2 (masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC		m - 300 m		Pumping WL	36.6	(mbgs)	54.2 (masl)
22,	Water Found 36.9 (mbgs)	53.9 (masl)	SULPHUR	a.g o. o o			Pump Rate Spec. Cap.	22.7 1.04	(LPM) (LPM/m)	2 / 0 Hour / Minute
	Casing Diameter 6 inch	Casing Material: S	TEEL	Depth (m)	Elev (masl)		Spec. Cap.	1.04	(LFW/III)	Hour / Williate
	•	•		0.0	90.8	Color			Soil Desc	riptions
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)							
	Screen Interval (m)									
				0.3	90.5			TOPSOIL /		1
				39.0	51.8	BLUE	LIM	IESTONE /		I
3700739	Lot 032 Conc 01	ERNESTO	WN TOWNSHIP	/ LENNOX & ADDIN	IGTON		Flowing? N			
Date 12/20/1962	Elev 90.3 (masl)	Easting 366021	Northing	4896986			SWL	18.3	(mbgs)	72.0 (masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC		m - 300 m		Pumping WL	39.6	(mbgs)	50.6 (masl)
	Water Found 42.7 (mbgs)	47.6 (masl)	SULPHUR	a.g o. o o			Pump Rate	22.7 1.07	(LPM) (LPM/m)	2 / 0 Hour / Minute
	Casing Diameter 6 inch	, ,	TEEL	Depth (m)	Elev (masl)		Spec. Cap.	1.07	(LPW/III)	Hour / Wilnute
	•	3		0.0	90.3	Color			Soil Desc	riptions
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)							
	Screen Interval (m)									
				1.2	89.1			CLAY /		1
				44.2	46.1	BLUE	LIM	IESTONE /		I
3700740	Lot 032 Conc 01	ERNESTO	WN TOWNSHIP	/ LENNOX & ADDIN	IGTON		Flowing? N			
Date 8/8/1963	Elev 90.3 (masl)	Easting 365557	Northing	4897477			SWL	9.1	(mbgs)	81.2 (masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC		m - 300 m		Pumping WL	32.6	(mbgs)	57.7 (masl)
	Water Found 21.3 (mbgs)	69.0 (masl)	SULPHUR				Pump Rate	4.5 0.19	(LPM) (LPM/m)	1 / 0 Hour / Minute
	Casing Diameter 6 inch	` ,	TEEL	Depth (m)	Elev (masl)		Spec. Cap.	0.19	(LFIVI/III)	nour / Wilnute
	· ·			0.0	90.3	Color			Soil Desc	riptions
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)							
	Screen Interval (m)									
				3.0	87.3			SHALE /	LIMEST	ONE /
				3.0	67.3			STIALL /	LINILO	ONL /

Well Record #										
3700741	Lot 032 Conc 01	ERNESTO	WN TOWNSHIP	LENNOX & ADDI	NGTON		Flowing? N			
Date 8/27/1963 DD/MM/YYYY	Elev 78.4 (masl) / Municipal Water Found 17.7 (mbgs)	Easting 366219 Water Supply 60.7 (masl)	Northing UTM RC 5 FRESH	4896677 margin of error : 100) m - 300 m		SWL Pumping WL Pump Rate Spec. Cap.	6.1 29.0 136.4 5.97	,	72.3 (masl) 49.4 (masl) 2 / 0 Hour / Minute
	Casing Diameter 6 inch Top of Screen (mbgs) Screen Interval (m)	Casing Material: ST Bottom of Screen	(mbgs)	Depth (m) 0.0	Elev (masl) 78.4	Color			Soil Description	ons
				2.4 36.6	76.0 41.8	BLUE	LIM	SHALE /	LIMESTON	≣ / /
3700742	Lot 032 Conc 01	ERNESTO	WN TOWNSHIP	LENNOX & ADDI	NGTON		Flowing? N			
Date 2/26/1964 DD/MM/YYYY	Elev 81.9 (masl) / Domestic Water Found 20.7 (mbgs)	Easting 365327 Water Supply 61.1 (masl)	Northing UTM RC 5 FRESH	4897326 margin of error : 100	0 m - 300 m		SWL Pumping WL Pump Rate Spec. Cap.	9.1 18.3 22.7 2.49		72.7 (masl) 63.6 (masl) 1 / 0 Hour / Minute
	Casing Diameter 6 inch Top of Screen (mbgs) Screen Interval (m)	Casing Material: ST Bottom of Screen	(mbgs)	Depth (m) 0.0	Elev (masl) 81.9	Color			Soil Description	ons
				0.6 3.7 22.3	81.3 78.2 59.6	BLUE		TOPSOIL / SHALE / IESTONE /	LIMESTON	
3700743	Lot 032 Conc 01	ERNESTO	WN TOWNSHIP	/ LENNOX & ADDI	NGTON		Flowing? N			
Date 8/10/1964 DD/MM/YYYY	Elev 86.1 (masl) / Municipal Water Found 12.8 (mbgs)	Easting 365576 Water Supply 73.3 (masl)	Northing UTM RC 5 FRESH	4897449 margin of error : 100) m - 300 m		SWL Pumping WL Pump Rate Spec. Cap.	2.7 7.6 113.7 23.30	,	83.4 (masl) 78.5 (masl) 2 / 0 Hour / Minute
	Casing Diameter 6 inch	Casing Material: ST	TEEL	Depth (m)	Elev (masl)		орес. оар.	25.50	, ,	
	Top of Screen (mbgs) Screen Interval (m)	Bottom of Screen	(mbgs)	0.0	86.1	Color			Soil Description	ons
				1.5 14.0	84.6 72.1	BLUE BLUE	LIM	CLAY /		/ /
3700744	Lot 032 Conc 01	FRNESTON	WN TOWNSHIP	/ LENNOX & ADDI		BLUE	Flowing? N	ILOTONE /		<u> </u>
Date 8/12/1964	Elev 86.1 (masl)	Easting 365579	Northing	4897451			SWL	2.4	` •,	83.6 (masl)
DD/MM/YYYY	/ Municipal	Water Supply	UTM RC 5) m - 300 m		Pumping WL Pump Rate	8.5 113.7	(mbgs) (LPM)	77.5 (masl) 2 / 0
	Water Found 13.4 (mbgs)		FRESH	Donth (m)	Floy (mool)		Spec. Cap.	18.64	(LPM/m)	Hour / Minute
	Casing Diameter 6 inch Top of Screen (mbgs)	Casing Material: ST Bottom of Screen	(mbgs)	Depth (m) 0.0	Elev (masl) 86.1	Color			Soil Description	ons
	Screen Interval (m)				•••	5		61.4 1/. /		,
				2.7 14.0	83.3 72.0	BLUE BLUE	LIM	CLAY / IESTONE /		I I
3700745	Lot 033 Conc 01	ERNESTO	WN TOWNSHIP	LENNOX & ADDI	NGTON		Flowing? N			
Date 12/16/1949 DD/MM/YYYY	Elev 91.4 (masl) / Domestic Water Found 14.6 (mbgs)	Easting 366502 Water Supply	Northing UTM RC 9 FRESH	4896994			SWL Pumping WL Pump Rate Spec. Cap.	4.9 9.8 45.5 9.32		86.5 (masl) 81.7 (masl) 3 / 0 Hour / Minute
	Casing Diameter 6 inch		ΓEEL	Depth (m)	Elev (masl)		орес. Сар.	3.32		
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)	0.0	91.4	Color			Soil Description	ons
	Screen Interval (m)									
21-Jun-21										

				12.2 15.8	79.2 75.6	BLUE BLUE	1 184	CLAY /	MEDIUM	SAND	GRAVEL
						BLUE		LOIUNE /		·	•
3700746	Lot 033 Conc 01	ERNEST	OWN TOWNSHIP	LENNOX & ADDI	NGTON		Flowing? N SWL	9.1	(mbgs)	80.9	(masl)
Date 1/15/1954	Elev 90.1 (masl)	Easting 366443	Northing	4896943			Pumping WL	42.7	(mbgs)	47.4	(masi)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC	9 unknown UTM			Pump Rate	31.8	(LPM)		/ 0
	Water Found 39.6 (mbgs)	50.5 (masl)	FRESH				Spec. Cap.	0.95	(LPM/m)		/ Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)		орсо. оцр.	0.00	(=:)		,
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)	0.0	90.1	Color			Soil Desc	riptions	
	(0,	Bottom or Screen	(IIIDGS)								
	Screen Interval (m)										
				1.2	88.9			CLAY /			1
				42.7	47.4	BLUE	LIM	ESTONE /			1
3700747	Lot 033 Conc 01	ERNEST	OWN TOWNSHIP	/ LENNOX & ADDI	IGTON		Flowing? N				
		_			- •		SWL	7.3	(mbgs)	70.5	(masl)
Date 5/20/1954	Elev 77.8 (masl)	Easting 366302		4896847			Pumping WL	33.8	(mbgs)	44.0	(masl)
DD/MM/YYYY	/ Domestic Water Found 32.9 (mbgs)	Water Supply 44.9 (masl)	UTM RC FRESH	9 unknown UTM			Pump Rate	31.8	(LPM)		1
		. ,		Depth (m)	Elev (masl)		Spec. Cap.	1.20	(LPM/m)	Hour	/ Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	0.0	77.8	Color			Soil Desc	rintions	
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)	0.0	77.0	00.0.			0011 2000	- iptions	
	Screen Interval (m)										
	, ,			0.3	77.5			TOPSOIL /			ı
				4.6	73.3			SHALE /			,
				33.8	44.0		LIM	ESTONE /			,
0700740	1						Flowing? N				
3700748	Lot 033 Conc 01	ERNESI	OWN TOWNSHIP	' LENNOX & ADDI	NGION		SWL	12.2	(mbgs)	80.8	(masl)
		Easting 365770	Northing	4897786			Pumping WL	30.5	(mbgs)	62.5	(masi)
Date 9/23/1961	Elev 93.0 (masl)			F	m - 200 m						
Date 9/23/1961 DD/MM/YYYY	Elev 93.0 (masl) / Domestic	Water Supply	UTM RC	5 margin of error : 100	III - 300 III		Pump Rate	22.7	(LPM)	1	/ 0
		Water Supply	UTM RC FRESH	5 margin of error : 100	III - 300 III		Pump Rate Spec. Cap.	22.7 1.24	(LPM) (LPM/m)		/ 0 / Minute
	/ Domestic	Water Supply		Depth (m)	Elev (masi)		Pump Rate Spec. Cap.		(LPM/m)	Hour	
	/ Domestic Water Found 35.1 (mbgs) Casing Diameter 6 inch	Water Supply 58.0 (masl) Casing Material:	FRESH STEEL			Color	•			Hour	
	/ Domestic Water Found 35.1 (mbgs) Casing Diameter 6 inch Top of Screen (mbgs)	Water Supply 58.0 (masl)	FRESH	Depth (m)	Elev (masi)	Color	•		(LPM/m)	Hour	
	/ Domestic Water Found 35.1 (mbgs) Casing Diameter 6 inch	Water Supply 58.0 (masl) Casing Material:	FRESH STEEL	Depth (m)	Elev (masi)	Color	•		(LPM/m)	Hour	
	/ Domestic Water Found 35.1 (mbgs) Casing Diameter 6 inch Top of Screen (mbgs)	Water Supply 58.0 (masl) Casing Material:	FRESH STEEL	Depth (m) 0.0 0.3	Elev (masl) 93.0 92.7		Spec. Cap.	1.24 TOPSOIL /	(LPM/m)	Hour	
	/ Domestic Water Found 35.1 (mbgs) Casing Diameter 6 inch Top of Screen (mbgs)	Water Supply 58.0 (masl) Casing Material:	FRESH STEEL	Depth (m) 0.0	Elev (masl) 93.0	Color	Spec. Cap.	1.24	(LPM/m)	Hour	
	/ Domestic Water Found 35.1 (mbgs) Casing Diameter 6 inch Top of Screen (mbgs)	Water Supply 58.0 (masl) Casing Material: Bottom of Screen	FRESH STEEL (mbgs)	Depth (m) 0.0 0.3	93.0 92.7 55.5		Spec. Cap. LIM	1.24 TOPSOIL /	(LPM/m)	Hour	
3700749	Water Found 35.1 (mbgs) Casing Diameter 6 inch Top of Screen (mbgs) Screen Interval (m)	Water Supply 58.0 (masl) Casing Material: Bottom of Screen	FRESH STEEL (mbgs) OWN TOWNSHIF	Depth (m) 0.0 0.3 37.5 0 / LENNOX & ADDII	93.0 92.7 55.5		Spec. Cap. LIM Flowing? N SWL	1.24 TOPSOIL / JESTONE /	(LPM/m) Soil Desc	Hour riptions	/ Minute
3700749 Date 5/28/1962	Vater Found Jobs Jobs	Water Supply 58.0 (masl) Casing Material: Bottom of Screen ERNEST Easting 365762	FRESH STEEL (mbgs) OWN TOWNSHIP Northing	Depth (m) 0.0 0.3 37.5 D / LENNOX & ADDII 4897759	93.0 92.7 55.5 NGTON		Spec. Cap. LIM Flowing? N SWL Pumping WL	1.24 TOPSOIL / IESTONE / 9.1 33.5	(LPM/m) Soil Desc (mbgs) (mbgs)	Hour riptions 84.8 60.4	/ Minute
3700749	Domestic Water Found 35.1 (mbgs)	Water Supply 58.0 (masl) Casing Material: Bottom of Screen ERNEST Easting 365762 Water Supply	FRESH STEEL (mbgs) FOWN TOWNSHIP Northing UTM RC	Depth (m) 0.0 0.3 37.5 D / LENNOX & ADDII 4897759	93.0 92.7 55.5 NGTON		Spec. Cap. LIM Flowing? N SWL Pumping WL Pump Rate	1.24 TOPSOIL / IESTONE / 9.1 33.5 18.2	(LPM/m) Soil Desc (mbgs) (mbgs) (LPM)	Hour riptions 84.8 60.4	/ Minute / / / (masl) (masl) / 0
3700749 Date 5/28/1962		Water Supply 58.0 (masl) Casing Material: Bottom of Screen ERNEST Easting 365762 Water Supply 60.4 (masl)	FRESH STEEL (mbgs) OWN TOWNSHIF Northing UTM RC FRESH	Depth (m) 0.0 0.3 37.5 D / LENNOX & ADDII 4897759 5 margin of error : 100	92.7 55.5 NGTON m - 300 m		Spec. Cap. LIM Flowing? N SWL Pumping WL	1.24 TOPSOIL / IESTONE / 9.1 33.5	(LPM/m) Soil Desc (mbgs) (mbgs)	Hour riptions 84.8 60.4	/ Minute
3700749 Date 5/28/1962	Domestic Water Found 35.1 (mbgs)	Water Supply 58.0 (masl) Casing Material: Bottom of Screen ERNEST Easting 365762 Water Supply	FRESH STEEL (mbgs) FOWN TOWNSHIP Northing UTM RC	Depth (m) 0.0 0.3 37.5 D / LENNOX & ADDII 4897759 5 margin of error : 100 Depth (m)	92.7 55.5 NGTON m - 300 m Elev (masl)	BLUE	Spec. Cap. LIM Flowing? N SWL Pumping WL Pump Rate	1.24 TOPSOIL / IESTONE / 9.1 33.5 18.2	(LPM/m) Soil Desc (mbgs) (mbgs) (LPM) (LPM/m)	Hour riptions 84.8 60.4 1 Hour	/ Minute / / / (masl) (masl) / 0
3700749 Date 5/28/1962		Water Supply 58.0 (masl) Casing Material: Bottom of Screen ERNEST Easting 365762 Water Supply 60.4 (masl)	FRESH STEEL (mbgs) OWN TOWNSHIF Northing UTM RC FRESH	Depth (m) 0.0 0.3 37.5 D / LENNOX & ADDII 4897759 5 margin of error : 100	92.7 55.5 NGTON m - 300 m		Spec. Cap. LIM Flowing? N SWL Pumping WL Pump Rate	1.24 TOPSOIL / IESTONE / 9.1 33.5 18.2	(LPM/m) Soil Desc (mbgs) (mbgs) (LPM)	Hour riptions 84.8 60.4 1 Hour	/ Minute / / / (masl) (masl) / 0
3700749 Date 5/28/1962	Domestic	Water Supply 58.0 (masl) Casing Material: Bottom of Screen ERNEST Easting 365762 Water Supply 60.4 (masl) Casing Material:	FRESH STEEL (mbgs) OWN TOWNSHIF Northing UTM RC FRESH	Depth (m) 0.0 0.3 37.5 D / LENNOX & ADDII 4897759 5 margin of error : 100 Depth (m)	92.7 55.5 NGTON m - 300 m Elev (masl)	BLUE	Spec. Cap. LIM Flowing? N SWL Pumping WL Pump Rate	1.24 TOPSOIL / IESTONE / 9.1 33.5 18.2	(LPM/m) Soil Desc (mbgs) (mbgs) (LPM) (LPM/m)	Hour riptions 84.8 60.4 1 Hour	/ Minute / / / (masl) (masl) / 0
3700749 Date 5/28/1962		Water Supply 58.0 (masl) Casing Material: Bottom of Screen ERNEST Easting 365762 Water Supply 60.4 (masl) Casing Material:	FRESH STEEL (mbgs) OWN TOWNSHIF Northing UTM RC FRESH	Depth (m) 0.0 0.3 37.5 D / LENNOX & ADDII 4897759 5 margin of error : 100 Depth (m)	92.7 55.5 NGTON m - 300 m Elev (masl)	BLUE	Spec. Cap. LIM Flowing? N SWL Pumping WL Pump Rate	1.24 TOPSOIL / IESTONE / 9.1 33.5 18.2	(LPM/m) Soil Desc (mbgs) (mbgs) (LPM) (LPM/m)	Hour riptions 84.8 60.4 1 Hour	/ Minute / / / (masl) (masl) / 0

Well Record #											
3700750	Lot 033	Conc 01	ERNES'	TOWN TOWNSHI	P / LENNOX & ADDI	NGTON		Flowing? N			
Date 8/5/1964 DD/MM/YYYY	Elev Water Found	87.1 (masl) / Domestic d 21.0 (mbgs)	Easting 366129 Water Supply 66.0 (masl)	Northing UTM RC FRESH	4896918 5 margin of error : 100	m - 300 m		SWL Pumping WL Pump Rate Spec. Cap.	2.7 22.3 90.9 4.66	(mbgs) (mbgs) (LPM) (LPM/m)	84.3 (masl) 64.8 (masl) 1 / 0 Hour / Minute
	Casing Diamete	er 6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)		эрес. Сар.	4.00	(LFW/III)	Hour / Williate
	Top of Screen Screen Interval	(mbgs)	Bottom of Screen	(mbgs)	0.0	87.1	Color			Soil Descrip	tions
		` ,			0.9	86.1			CLAY /		,
					5.2	81.9			SHALE /		,
					22.3	64.8	BLUE	LIMI	ESTONE /		1
3700751	Lot 034	Conc 01	ERNES'	TOWN TOWNSHI	P / LENNOX & ADDI	NGTON		Flowing? N			
Date 12/2/1957	Elev	78.3 (masl)	Easting 366700	0 Northing	4896827			SWL	4.9	(mbgs)	73.4 (masl)
DD/MM/YYYY	Licv	/ Domestic	Water Supply	UTM RC				Pumping WL Pump Rate	10.7 45.5	(mbgs) (LPM)	67.6 (masl) 1 / 0
	Water Found	d 10.7 (mbgs)	67.6 (masl)	FRESH				Spec. Cap.	7.85	(LPM/m)	Hour / Minute
	Casing Diamete	er 6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)		open oup		, ,	
	Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	78.3	Color			Soil Descrip	tions
	Screen Interval	(m)									
		` ,			4.9	73.4	GREY		SHALE /	LIMESTO	NE /
					12.5	65.8	GREY	LIMI	ESTONE /	LINEOTO	/
3700752	Lot 034 (Conc 01	FRNES'	TOWN TOWNSHI	P / LENNOX & ADDI	NGTON		Flowing? N			
								SWL	6.7	(mbgs)	75.4 (masl)
Date 12/31/1957 DD/MM/YYYY	Elev	82.1 (masl) c / Livestock	Easting 366729 Water Supply	Northing UTM RC	4896891 9 unknown UTM			Pumping WL	28.7	(mbgs)	53.5 (masl)
DD/IIIII T T T	Water Found			FRESH	o unknown or m			Pump Rate	9.1 0.41	(LPM) (LPM/m)	1 / 0 Hour / Minute
	Casing Diamete	er 6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)		Spec. Cap.	0.41	(LFW/III)	Hour / Williate
	Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	82.1	Color			Soil Descrip	tions
	Screen Interval	(m)	Bottom of ocreen	(111090)							
	Screen interval	(111)			0.9	81.2			CLAY /		,
					3.7	78.5			SHALE /	LIMESTO	, NE /
					28.7	53.5	GREY	LIMI	ESTONE /		1
3700753	Lot 034	Conc 01	ERNES'	TOWN TOWNSHI	P / LENNOX & ADDI	NGTON		Flowing?			
Date 10/8/1958	Elev	82.5 (masl)	Easting 366823	3 Northing	4896929			SWL		(mbgs)	(masl)
DD/MM/YYYY	Licv	/	Abandoned-Supply	UTM RC		m - 300 m		Pumping WL		(mbgs) (LPM)	(masl)
	Water Found	d (mbgs)						Pump Rate Spec. Cap.		(LPM/m)	/ Hour / Minute
	Casing Diamete	er 8 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)		орос. оар.			
	Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	82.5	Color			Soil Descrip	tions
	Screen Interval	(m)		, ,,							
		` ,			13.7	68.8		LIMI	ESTONE /		1
3700754	Lot 034 (Conc 01	FRNES.	TOWN TOWNSHI	P / LENNOX & ADDI			Flowing? N			
			_			101011		SWL	8.5	(mbgs)	74.2 (masl)
Date 4/23/1960	Elev	82.7 (masl)	Easting 366780 Water Supply	-	4896912 5 margin of error : 100	m - 200 m		Pumping WL	25.9	(mbgs)	56.8 (masl)
DD/MM/YYYY	Water Found	/ Livestock d 29.0 (mbgs)		UTM RC FRESH	5 margin or error : 100	iii - 300 III		Pump Rate	22.7	(LPM)	1 / 0
	Casing Diamete	, .,	Casing Material:	STEEL	Depth (m)	Elev (masl)		Spec. Cap.	1.31	(LPM/m)	Hour / Minute
	Top of Screen	(mbgs)	Bottom of Screen		0.0	82.7	Color			Soil Descrip	tions
	•		Portoni of Screen	(mbgs)							
	Screen Interval	(m)									
1-Jun-21											
ecord Count 41											

Well Record #									
				3.4	79.4		SHALE /		NE /
				30.5	52.3	BLUE	LIMESTONE /		ı
3700755	Lot 034 Conc 01	ERNESTOWN	TOWNSHIP / I	LENNOX & ADDIN	IGTON	Flo	wing?		
Date 5/20/1960	Elev 83.6 (masl)	Easting 366707	Northing 4	896910		D	SWL	(mbgs)	(masl)
DD/MM/YYYY	1	Abandoned-Supply	UTM RC 5	margin of error : 100	m - 300 m	Pumpir	ng w∟ oRate	(mbgs) (LPM)	(masl)
	Water Found (mbgs)) (masl)		ū			. Cap.	(LPM/m)	/ Hour / Minute
	Casing Diameter 6 inch	Casing Material: STEEL		Depth (m)	Elev (masl)	Орос	. оцр.	(=:)	110417 11111410
	Top of Screen (mbgs)	· ·	(mbgs)	0.0	83.6	Color		Soil Descript	tions
	Screen Interval (m)	Bottom of Screen	(Hibgs)						
				0.3	83.2		TOPSOIL /		1
				50.3	33.3	BLUE	LIMESTONE /		1
3700756	Lot 034 Conc 01	FRNESTOWN	TOWNSHIP /	LENNOX & ADDIN	IGTON	Flo	wing? N		
					01011		SWL 6.1	(mbgs)	80.3 (masl)
Date 9/13/1961	Elev 86.4 (masl)	Easting 366570	•	896919		Pumpir	ng WL 6.7	(mbgs)	79.7 (masl)
DD/MM/YYYY	/ Domestic Water Found 3.7 (mbgs)	Water Supply	UTM RC 5 FRESH	margin of error : 100	m - 300 m		Rate 4.5	(LPM)	0 / 15
				Depth (m)	Elev (masl)	Spec	. Cap. 7.46	(LPM/m)	Hour / Minute
	Casing Diameter 6 inch	Casing Material: STEEL		0.0	86.4	Color		Soil Descript	tions
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)	0.0		00.0.		Con Descrip	
	Screen Interval (m)								
				0.6	85.8		TOPSOIL /		1
				7.3	79.1	GREY	LIMESTONE /		,
3700757	Lot 034 Conc 01	EDNESTOWN	TOWNSHID /	LENNOX & ADDIN	IGTON	Flor	wing? N		
3700737	Lot 034 Conc 01	EKNESTOWN	TOWNSHIP /	LENNUX & ADDIN	IGTON	110	SWL 11.9	(mbgs)	73.7 (masl)
Date 9/11/1963	Elev 85.6 (masl)	Easting 366602		896915		Pumpir	ng WL	(mbgs)	(masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC 5	margin of error : 100	m - 300 m	Pump	Rate	(LPM)	1
	Water Found 10.7 (mbgs)) 74.9 (masl)	FRESH	Don'th (m)	El (1)	Spec	. Cap.	(LPM/m)	Hour / Minute
	Casing Diameter 6 inch	Casing Material: STEEL		Depth (m) 0.0	Elev (masl) 85.6	Color		Soil Descript	tions
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)	0.0	03.0	Coloi		3011 Descript	lions
	Screen Interval (m)								
	. ,			3.0	82.5		SHALE /	LIMESTON	NF /
				28.3	57.2	GREY	LIMESTONE /		· - ,
2700759	Lot 024 Come 04	EDNECTOWN	TOWNELID /				wing? N		· · ·
3700758	Lot 034 Conc 01	EKNESIOWN	I OWNSHIP /	LENNOX & ADDIN	IGION	FIO	SWL 9.4	(mbgs)	73.9 (masl)
Date 5/1/1964	Elev 83.3 (masl)	Easting 366880	•	896992		Pumpir		(mbgs)	72.1 (masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC 5	margin of error : 100	m - 300 m		Rate 45.5	(LPM)	1 / 0
	Water Found 11.6 (mbgs)) 71.8 (masl)	FRESH	5 41 f S	-	Spec	. Cap. 24.86	(LPM/m)	Hour / Minute
	Casing Diameter 6 inch	Casing Material: STEEL		Depth (m)	Elev (masl)	Color		Sail December	tions
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)	0.0	83.3	Color		Soil Descript	tions
	Screen Interval (m)								
	Screen Interval (m)			4.5	04.0	DILLE	CLAY /		1
	Screen Interval (m)			1.5 7.6	81.8 75.7	BLUE	CLAY / SHALE /		/ NE /

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3700759	Lot 035 Conc 01	ERNES ⁻	TOWN TOWNSHIE	P / LENNOX & ADDI	NGTON		Flowing? N				
Date 4/14/1954 DD/MM/YYYY		Abandoned-Quality bgs) 48.4 (masl)	UTM RC SALTY		Elev (masi)		SWL Pumping WL Pump Rate Spec. Cap.	41.1	(mbgs) (mbgs) (LPM) (LPM/m)	48.4 Hour /	(masl) (masl) / ! Minute
	Casing Diameter 6 inch Top of Screen Screen Interval (m)	Casing Material: us) Bottom of Screen	STEEL (mbgs)	Depth (m) 0.0	89.6	Color			Soil Descrip	tions	
				45.1	44.5	BLUE	LIM	IESTONE /		1	
3700760	Lot 035 Conc 01	ERNES ⁻	TOWN TOWNSHIE	P / LENNOX & ADDI	NGTON		Flowing? N				
ate 5/18/1959 DD/MM/YYYY	Elev 83.4 (masl) / Domestic Water Found 9.8 (m Casing Diameter 6 inch Top of Screen (mbg	Water Supply bgs) 73.7 (masl) Casing Material:	Northing UTM RC FRESH STEEL (mbgs)	4897071 5 margin of error : 10 Depth (m) 0.0	0 m - 300 m Elev (masl) 83.4	Color	SWL Pumping WL Pump Rate Spec. Cap.	7.3 27.1 0.0 0.00	(mbgs) (mbgs) (LPM) (LPM/m) Soil Descrip		(masl) (masl) / 0 Minute
	Screen Interval (m)			5.5 27.1	77.9 56.3		LIM	SHALE /		<i>!</i>	
3700761	Lot 035 Conc 01	ERNES ⁻	TOWN TOWNSHIP	P / LENNOX & ADDI			Flowing?				
Date 8/8/1959 DD/MM/YYYY	Elev 96.5 (masl)			4898549		Color	SWL Pumping WL Pump Rate Spec. Cap.		(mbgs) (mbgs) (LPM) (LPM/m) Soil Descrip		(masl) (masl) / ! Minute
	Top of Screen (mbg Screen Interval (m)	s) Bottom of Screen	(mbgs)	0.9 40.8	95.6 55.6		ЦМ	CLAY / IESTONE /		<i>!</i>	
3700762	Lot 035 Conc 01	ERNES ⁻	TOWN TOWNSHIP	P / LENNOX & ADDI	NGTON		Flowing? N				
Date 6/29/1960 DD/MM/YYYY	Casing Diameter 6 inch Top of Screen (mbg	Water Supply bgs) 68.6 (masl) Casing Material:	Northing UTM RC FRESH STEEL (mbgs)	4897118 5 margin of error : 10 Depth (m) 0.0	0 m - 300 m Elev (masl) 80.8	Color	SWL Pumping WL Pump Rate Spec. Cap.	4.3 14.9 9.1 0.85	(mbgs) (mbgs) (LPM) (LPM/m) Soil Descrip		(masl) (masl) / 0 Minute
	Screen Interval (m)			2.4 14.9	78.4 65.9	BLUE	LIM	SHALE / IESTONE /	LIMESTO	NE /	
3700764	Lot 035 Conc 01	ERNES	TOWN TOWNSHIP	P / LENNOX & ADDI	NGTON		Flowing? N	48 -	(t)	•••	(D
9/12/1963 DD/MM/YYYY		Easting 366977 Water Supply bgs) 55.9 (masl) Casing Material:	Northing UTM RC SULPHUR	4897099 5 margin of error : 10 Depth (m)	0 m - 300 m Elev (masl)		SWL Pumping WL Pump Rate Spec. Cap.	15.2 29.0 31.8 2.32	(mbgs) (mbgs) (LPM) (LPM/m)	69.0 55.3 1 / Hour /	(masl) (masl) / 0 Minute
	Casing Diameter 6 inch Top of Screen (mbg Screen Interval (m)	_	(mbgs)	0.0	84.2	Color			Soil Descrip		
				24.7 29.0	59.6 55.3			DRILLED / IESTONE /		1	

Well Record #													
3700765	Lot 035 Cor	nc 01	ERNES ⁻	TOWN TOWNSH	IIP / LENN	OX & ADDIN	IGTON		Flowing? N	ı			
Date 8/3/1965 DD/MM/YYYY	/ 0	95.0 (masl) Domestic 30.5 (mbgs)	Easting 366831 Water Supply 64.5 (masl)	Northing UTM RC SULPHUR	4897324 5 marg	n of error : 100	m - 300 m		SWL Pumping WL Pump Rate Spec. Cap.	3.7 33.5 0.0 0.00	(mbgs) (mbgs) (LPM) (LPM/m)	91.3 (masl) 61.5 (masl) 0 / 30 Hour / Minute	
	Top of Screen		Casing Material: Bottom of Screen	STEEL (mbgs)		Depth (m) 0.0	Elev (masl) 95.0	Color	эрес. Сар.	0.00	Soil Descrip		
	Screen Interval	(m)				2.1 33.5	92.9 61.5	GREY		TOPSOIL /		/ /	
3702585	Lot 034 Cor	nc 01	ERNES ⁻	TOWN TOWNSH	IIP / LENN	OX & ADDIN	IGTON		Flowing? N		(t)	047 (
Date 10/7/1968 DD/MM/YYYY	/ D Water Found	34.6 (masl) Domestic 18.3 (mbgs) 6 inch	Easting 366840 Water Supply 66.3 (masl) Casing Material:	UTM RO FRESH STEEL	4897002 3 4 marg	in of error : 30 m Depth (m) 0.0	n - 100 m Elev (masl) 84.6	Color	SWL Pumping WL Pump Rate Spec. Cap.	19.8 38.1 0.0 0.00	(mbgs) (mbgs) (LPM) (LPM/m) Soil Descrip	64.7 (masl) 46.5 (masl) 0 / 20 Hour / Minute	
	Top of Screen Screen Interval	(mbgs) (m)	Bottom of Screen	(mbgs)		2.4 38.1	82.1 46.5	GREY		TOPSOIL /	·	<i>!</i> <i>!</i>	
3702764	Lot 031 Cor	nc 01	ERNES ⁻	TOWN TOWNSH	IIP / LENN	OX & ADDIN	IGTON		Flowing? N	ı			
Date 12/23/1969 DD/MM/YYYY	Elev 7 / C Water Found	76.0 (masl) Domestic 8.2 (mbgs)	Easting 365150 Water Supply 67.8 (masl)	Northing UTM RC FRESH	4897352	in of error : 30 m	n - 100 m		SWL Pumping WL Pump Rate Spec. Cap.	2.1 9.1 13.6 1.95	(mbgs) (mbgs) (LPM) (LPM/m)	73.9 (masl) 66.9 (masl) 2 / 0 Hour / Minute	
	Casing Diameter Top of Screen	6 inch (mbgs)	Casing Material: Bottom of Screen	STEEL (mbgs)		Depth (m) 0.0	Elev (masl) 76.0	Color			Soil Descrip	itions	
	Screen Interval	(m)				2.7 9.4	73.3 66.6	BLUE BLUE	LIN	CLAY / MESTONE /		<i>!</i> <i>!</i>	
3702906	Lot 034 Cor	nc 01	ERNES ⁻	TOWN TOWNSH	IIP / LENN	OX & ADDIN	IGTON		Flowing? N				
Date 1/29/1970 DD/MM/YYYY	/ D Water Found	79.4 (masl) Domestic 12.8 (mbgs) 6 inch	Easting 366660 Water Supply 66.6 (masl) Casing Material:	Northing UTM RC FRESH STEEL	4896822 3 4 marg	n of error : 30 m	Elev (masl)		SWL Pumping WL Pump Rate Spec. Cap.	3.7 5.2 136.4 89.49	(mbgs) (mbgs) (LPM) (LPM/m)	75.7 (masl) 74.2 (masl) 1 / 0 Hour / Minute	
	Top of Screen Screen Interval	(mbgs) (m)	Bottom of Screen	(mbgs)		0.0	79.4	Color			Soil Descrip	tions	
						0.6 13.7	78.8 65.7	BROWN BLUE		TOPSOIL / MESTONE /		/ /	
3702917 Date 8/20/1970 DD/MM/YYYY	/ D Water Found	90.3 (masl) Domestic 13.1 (mbgs)	Easting 365710 Water Supply 77.2 (masl)	UTM RC FRESH	4897602				Flowing? N SWL Pumping WL Pump Rate Spec. Cap.	5.2 12.2 31.8 4.54	(mbgs) (mbgs) (LPM) (LPM/m)	85.2 (masl) 78.2 (masl) 2 / 0 Hour / Minute	
	Casing Diameter Top of Screen Screen Interval	6 inch (mbgs) (m)	Casing Material: Bottom of Screen	STEEL (mbgs)		0.0	90.3	Color			Soil Descrip	ntions	
		. ,				1.2	89.1	BROWN		TOPSOIL /		1	
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			14.3	76.0	BLUE	LIMESTONE /		1
3702941	Lot 034 Conc 01	ERNESTOWN TOWNS	HIP / LENNOX & ADD	INGTON	Flowing	? N		
Date 8/11/1969	51 00 0 (D	Facility 000450 Namibles	d 4898672		SW	L 3.0	(mbgs) 90.5	(masl)
Date 8/11/1969 DD/MM/YYYY	Elev 93.6 (masl) / Domestic	Easting 366150 Northing Water Supply UTM F	•	0 400	Pumping W	L 6.7	(mbgs) 86.9	(masl)
DD/MIW/YYYY			RC 4 margin of error: 3	0 m - 100 m	Pump Ra	te 9.1	` '	0 / 20
	Water Found 6.1 (mbgs)	87.5 (masl) FRESH	D(1- ()	Fl., (Spec. Ca	р. 2.49	(LPM/m) Hou	ur / Minute
	Casing Diameter 6 inch	Casing Material: STEEL	Depth (m) 0.0	Elev (masl) 93.6	0-1		Soil Descriptions	
	Top of Screen (mbgs)	Bottom of Screen (mbgs)	0.0	93.0	Color		Soil Descriptions	
	Screen Interval (m)							
			1.8	91.8		TOPSOIL /		1
			7.3	86.3	GREY	LIMESTONE /		1
3703096	Lot 030 Conc 01	ERNESTOWN TOWNS	HIP / LENNOX & ADD	INGTON	Flowing	? N		
					SW	L 5.5	(mbgs) 73.1	(masl)
Date 11/23/1970	Elev 78.6 (masl)	Easting 365120 Northing	•		Pumping W	L 25.0	(mbgs) 53.6	(masl)
DD/MM/YYYY	/ Domestic	Water Supply UTM F	RC 4 margin of error: 3	0 m - 100 m	Pump Ra	te 18.2	(LPM)	2 / 0
	Water Found 21.9 (mbgs)	56.7 (masl) FRESH			Spec. Ca	р. 0.93	(LPM/m) Hou	ur / Minute
	Casing Diameter 6 inch	Casing Material: STEEL	Depth (m)	Elev (masl)				
	Top of Screen (mbgs)	Bottom of Screen (mbgs)	0.0	78.6	Color		Soil Descriptions	
	Screen Interval (m)	· •,						
			0.3	78.3	BROWN	TOPSOIL /		1
			26.8	51.8	BLUE	LIMESTONE /		1
3703697	Lot 030 Conc 01	ERNESTOWN TOWNS	HIP / LENNOX & ADD	INGTON	Flowing	? N		
					sw	L 2.1	(mbgs) 80.6	(masl)
Date 10/30/1973	Elev 82.8 (masl)	Easting 364930 Northing	=		Pumping W	L 2.1	(mbgs) 80.6	(masl)
DD/MM/YYYY	/ Domestic		RC 4 margin of error: 3	0 m - 100 m	Pump Ra	te 113.7	(LPM)	1 / 0
	Water Found 5.5 (mbgs)	77.3 (masl) FRESH		- . ,	Spec. Ca	р. 9,999.99	(LPM/m) Hou	ur / Minute
	Casing Diameter 6 inch	Casing Material: STEEL	Depth (m)	Elev (masl)	0-1		O-II Di-ti	
	Top of Screen (mbgs)	Bottom of Screen (mbgs)	0.0	82.8	Color		Soil Descriptions	
	Screen Interval (m)	("3")						
	Octobri litterval (III)			04.5	DDOWN	01.437.7	011415	,
			1.2	81.5	BROWN	CLAY /		,
1			13.4	69.3	BLUE	LIMESTONE /		1
3704159	Lot 032 Conc 01	ERNESTOWN TOWNS	HIP / LENNOX & ADD	INGTON	Flowing		(k) =c -	(P
Date 5/2/1974	Elev 93.2 (masl)	Easting 366084 Northing	4897048		SW		(mbgs) 78.6	(masl)
DD/MM/YYYY	/ Domestic	Water Supply UTM F	•	0 m - 100 m	Pumping W		(mbgs) 53.3	(masl)
	Water Found 39.0 (mbgs)	54.2 (masl) MINERIAL			Pump Ra		` '	2 / 0 ur / Minute
	, ,,	, ,	Depth (m)	Elev (masl)	Spec. Ca	p. 1.08	(LPM/m) Hou	ar / IVIINUTE
	· ·	3	0.0	93.2	Color		Soil Descriptions	
	Top of Screen (mbgs)	Bottom of Screen (mbgs)						
	Screen Interval (m)							
			0.6	92.6	BROWN	TOPSOIL /		1
			1.2	92.0	GREY	SHALE /		1
			39.9	53.3	GREY	LIMESTONE /		1
			39.9	33.3	GREI	LIVIESTUNE /		,

Vell Record #												
3704396	Lot 032 Conc 01	ERNEST	OWN TOWNSHIP	' LENNOX	& ADDIN	IGTON		Flowing? N		(make ma)	70.5	D
Date 10/3/1975	Elev 90.2 (masl)	Easting 365490	Northing	4897422				SWL Pumping WL	13.7 45.7	(mbgs) (mbgs)	•	nasl) nasl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC	4 margin of	error : 30 n	ı - 100 m		Pump Rate	45.5	(LPM)	2 / 0	
	Water Found 48.8 (mb	gs) 41.5 (masl)	SULPHUR	_				Spec. Cap.	1.42	(LPM/m)	Hour / M	inute
	Casing Diameter 6 inch	Casing Material:	STEEL	De	epth (m) 0.0	Elev (masl) 90.2	Color			Soil Descript	lone	
	Top of Screen (mbgs) Bottom of Screen	(mbgs)		0.0	30.2	Coloi			Son Descript	lions	
	Screen Interval (m)											
					0.3	89.9	BROWN		FILL /		1	
					2.4	87.8	BLUE	Ш	MESTONE /	SHALE		
					50.3	39.9	BLUE	LII	MESTONE /		1	
3704708	Lot 034 Conc 01	ERNEST	OWN TOWNSHIP	' LENNOX	& ADDIN	IGTON		Flowing?				
	Elev 101.4 (masl)			4897583				SWL		(mbgs)	(r	nasl)
Date 6/18/1976 DD/MM/YYYY	/ (masi)	Easting 366667 Abandoned-Supply	Northing UTM RC		error : 30 n	- 100 m		Pumping WL		(mbgs)	(r	nasl)
	Water Found (mb							Pump Rate Spec. Cap.		(LPM) (LPM/m)	/ Hour / M	inuto
	Casing Diameter 6 inch	Casing Material:		Do	epth (m)	Elev (masl)		opeo. oap.		•		
	Top of Screen (mbgs	-	(mbgs)		0.0	101.4	Color			Soil Descript	tions	
	Screen Interval (m)	,	· -/9-/									
	Gorden interval (III)					404.0	DD OV		TOROGU '		,	
					0.3 53.3	101.0 48.0	BROWN BLUE		TOPSOIL / MESTONE /		1	
0704077	1 - 1 - 200 - 20 21	FDMFOT	COMPLETON NO.	- / L ENNION			DLUL					
3704977	Lot 032 Conc 01	ERNEST	OWN TOWNSHIP	' LENNOX	& ADDIN	GION		Flowing? N SWL	15.2	(mbgs)	72.6 (r	nasl)
Date 7/4/1977	Elev 87.9 (masl)	Easting 365650	•	4897532				Pumping WL	47.2	(mbgs)	•	nasi)
DD/MM/YYYY	/ Natas Farmal F0.0 (sub-	Abandoned-Quality	UTM RC	4 margin of	error: 30 n	n - 100 m		Pump Rate	136.4	(LPM)	2 / 0	
	Water Found 53.3 (mb		SALTY		epth (m)	Elev (masl)		Spec. Cap.	4.26	(LPM/m)	Hour / M	inute
	Casing Diameter 6 inch	Casing Material:	STEEL	,	0.0	87.9	Color			Soil Descript	tions	
	Top of Screen (mbgs) Bottom of Screen	(mbgs)									
	Screen Interval (m)											
					0.6	87.3	BROWN		TOPSOIL /		1	
					54.9	33.0	BLUE	LII	MESTONE /			
3704983	Lot 035 Conc 01	ERNEST	OWN TOWNSHIP	' LENNOX	& ADDIN	IGTON		Flowing?				
Date 7/11/1977	Elev 95.3 (masl)	Easting 366310	Northing	4898832				SWL		(mbgs)	•	nasl)
DD/MM/YYYY	1	Abandoned-Supply	UTM RC		error : 30 n	ı - 100 m		Pumping WL Pump Rate		(mbgs) (LPM)	(r /	nasi)
	Water Found (mb	gs) (masl)						Spec. Cap.		(LPM/m)	Hour / M	inute
	Casing Diameter 6 inch	Casing Material:	OPEN HOLE	De	epth (m)	Elev (masl)		- h		,		
	Top of Screen (mbgs) Bottom of Screen	(mbgs)		0.0	95.3	Color			Soil Descript	tions	
	Screen Interval (m)	-	,									
	(11)				1.2	94.1			TOPSOIL /		,	
					22.9	72.5		Ш	MESTONE /		,	
3704984	Lot 035 Conc 01	EDNIEGT	OWN TOWNSHIP	/ I ENNOY				Flowing?				
					& ADDIN	GION		SWL		(mbgs)	(r	nasl)
Date 7/14/1977	Elev 93.0 (masl)	Easting 366270	•	4898752				Pumping WL		(mbgs)		nasl)
DD/MM/YYYY	/ Water Found (mb	Abandoned-Supply	UTM RC	4 margin of	error : 30 n	i - 100 m		Pump Rate		(LPM)	1	
	•			D.	epth (m)	Elev (masl)		Spec. Cap.		(LPM/m)	Hour / M	inute
	Casing Diameter 6 inch	Casing Material:		D.	0.0	93.0	Color			Soil Descript	tions	
	Top of Screen (mbgs) Bottom of Screen	(mbgs)							•		

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veli Record #					0.9	92.1			TOPSOIL /		1
					25.9	67.1			IESTONE /		,
3704985	Lot 035 Conc 01	ERNEST	OWN TOWNSHIP	/ LENNOX &	& ADDIN	GTON		Flowing? N			
	Elev 93.3 (masl)	_		4898782	u / 1.55 1	0.0.0		SWL	4.6	(mbgs)	88.8 (masl)
Date 7/18/1977 DD/MM/YYYY	Liev 93.3 (masi) / Domestic	Easting 366310 Water Supply	Northing UTM RC 4		orror · 30 m	- 100 m	P	umping WL	30.5	(mbgs)	62.9 (masl)
DD/MIM/1111	Water Found 15.2 (mbgs)	,	SULPHUR	· margin or c	. 30 111	- 100 111		Pump Rate	9.1	(LPM)	0 / 30 Hour / Minute
	Casing Diameter 6 inch		STEEL	Dep	oth (m)	Elev (masl)		Spec. Cap.	0.35	(LPM/m)	nour / Wilnute
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)		0.0	93.3	Color			Soil Desc	riptions
	, ,,	Bottom of Screen	(mbga)								
	Screen Interval (m)					•••					,
					0.9 30.5	92.4 62.9			TOPSOIL /		/
									IESTONE /		,
3704986	Lot 035 Conc 01	ERNEST	OWN TOWNSHIP	' LENNOX	& ADDIN	GTON		Flowing? SWL		(mbgs)	(masl)
Date 7/30/1977	Elev 94.4 (masl)	Easting 366310	Northing	4898812			P	umping WL		(mbgs)	(masi)
DD/MM/YYYY	/	Abandoned-Supply	UTM RC	4 margin of 6	error : 30 m	- 100 m		Pump Rate		(LPM)	ı`´
	Water Found (mbgs)	, ,		Dor	oth (m)	Elev (masl)		Spec. Cap.		(LPM/m)	Hour / Minute
	Casing Diameter 6 inch	Casing Material:			0.0	94.4	Color			Soil Desc	riptions
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)								
	Screen Interval (m)										
					0.9	93.5			TOPSOIL /		1
					42.7	51.8		LIM	IESTONE /		
3705126	Lot 032 Conc 01	ERNEST!	OWN TOWNSHIP	/ LENNOX a	& ADDIN	GTON		Flowing? N			
Date 8/12/1977	Elev 84.1 (masl)	Easting 365690	Northing	4897502				SWL umping WL	2.1 21.6	(mbgs) (mbgs)	82.0 (masl) 62.5 (masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC	4 margin of e	error : 30 m	- 100 m	·	Pump Rate	18.2	(IIIDgs) (LPM)	2 / 0
	Water Found 20.7 (mbgs)) 63.4 (masl)	FRESH					Spec. Cap.	0.93	(LPM/m)	Hour / Minute
	Casing Diameter 6 inch	Casing Material:	STEEL		oth (m) 0.0	Elev (masl) 84.1	Color			Call Dage	-i-ti
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)		0.0	04.1	Color			Soil Desc	riptions
	Screen Interval (m)										
					2.7	81.4	BLUE		CLAY /		1
					3.7	80.5	BROWN		SAND /		1
				2	23.2	61.0	BLUE	LIM	IESTONE /		
3705134	Lot 030 Conc 01	ERNEST!	OWN TOWNSHIP	/ LENNOX	& ADDIN	GTON		Flowing? N			
Date 11/22/1977	Elev 79.0 (masl)	Easting 365030	Northing	4897222			_	SWL	5.2	(mbgs)	73.8 (masl)
	/ Domestic	Water Supply	UTM RC		error : 30 m	- 100 m	۲	umping WL Pump Rate	28.0 9.1	(mbgs) (LPM)	51.0 (masl) 2 / 0
DD/MM/YYYY) 58.6 (masl)	FRESH	-				Spec. Cap.	0.40	(LPM/m)	Hour / Minute
	Water Found 20.4 (mbgs)			Dep	oth (m)	Elev (masl)				, ,	
	Water Found 20.4 (mbgs) Casing Diameter 6 inch	Casing Material:	STEEL							Soil Desc	rintiono
	Casing Diameter 6 inch	Casing Material: Bottom of Screen			0.0	79.0	Color			Juli Desc	прионѕ
	Casing Diameter 6 inch Top of Screen (mbgs)	•	(mbgs)		0.0	79.0	Color			3011 Desc	прионѕ
	Casing Diameter 6 inch	•					Color		TOPSOU /	3011 Desc	riptions
	Casing Diameter 6 inch Top of Screen (mbgs)	•			0.0 0.3 0.9	79.0 78.7 78.1	Color		TOPSOIL / IESTONE /	FRACT	,

Well Record #												
3705212	Lot 034 C	Conc 01	ERNES	TOWN TOWNS	HIP / LENI	NOX & ADDIN	NGTON		Flowing?			
Date 5/3/1978 DD/MM/YYYY	Elev Water Found	` • ,	Easting 366929 Water Supply 65.5 (masl)	UTM R FRESH		1 gin of error : 30 r Depth (m)	m - 100 m Elev (masi)		SWL Pumping WL Pump Rate Spec. Cap.	2.7 7.9 68.2 13.16	(mbgs) (mbgs) (LPM) (LPM/m)	71.0 (masl) 65.8 (masl) 2 / 0 Hour / Minute
	Casing Diameter Top of Screen Screen Interval	r 6 inch (mbgs) (m)	Casing Material: Bottom of Screen	STEEL (mbgs)		0.0	73.8	Color			Soil Descripti	ons
						0.6 9.1	73.2 64.6	BROWN BLUE	Ц	TOPSOIL /		<i>! !</i>
3705241	Lot 029 C	Conc 01	ERNES'	TOWN TOWNS	HIP / LENI	NOX & ADDIN	NGTON		Flowing?			
Date 6/28/1978 DD/MM/YYYY	Elev Water Found Casing Diameter	, .,	Easting 365129 Water Supply 74.9 (masl) Casing Material:	Northing UTM R FRESH STEEL		gin of error : 30 r Depth (m)	Elev (masl)		SWL Pumping WL Pump Rate Spec. Cap.	4.6 6.1 45.5 29.83	(mbgs) (LPM) (LPM/m)	77.3 (masl) 75.8 (masl) 1 / 0 Hour / Minute
	Top of Screen Screen Interval	(mbgs) (m)	Bottom of Screen	(mbgs)		0.0	81.9 81.6	Color		TOPSOIL /	Soil Descripti	ons /
						8.5	73.3			MESTONE /		1
3705352 Date 4/15/1978 DD/MM/YYYY	Elev Water Found Casing Diameter	` • ,	ERNES Easting 365170 Water Supply 58.6 (masl) Casing Material:	TOWN TOWNS Northing UTM R Not stated	489692	2 gin of error : 30 r Depth (m)	n - 100 m Elev (masl)		Flowing? I SWL Pumping WL Pump Rate Spec. Cap.	2.1 21.9 22.7 1.15	(mbgs) (LPM) (LPM/m)	76.3 (masl) 56.5 (masl) 1 / 0 Hour / Minute
	Top of Screen Screen Interval	(mbgs) (m)	Bottom of Screen	(mbgs)		0.0	78.4 78.1	Color		TOPSOIL /	Soil Descripti	ons /
						21.9	56.5	BLUE	Ц	MESTONE /		ı
3705369 Date 5/11/1979 DD/MM/YYYY	Elev Water Found Casing Diameter Top of Screen Screen Interval	` • ,	ERNES Easting 365529 Water Supply 74.4 (masl) Casing Material: Bottom of Screen	OWN TOWNS Northing UTM R FRESH STEEL (mbgs)	489752			Color	Flowing? SWL Pumping WL Pump Rate Spec. Cap.	N 10.4 27.4 9.1 0.53	(mbgs) (mbgs) (LPM) (LPM/m)	82.3 (masl) 65.2 (masl) 1 / 0 Hour / Minute
						0.3 30.5	92.4 62.2	BROWN GREY	Ц	TOPSOIL /	STONES LAYERED	/ LOOSE /
3705605 Date 7/14/1980 DD/MM/YYYY	Elev Water Found Casing Diameter Top of Screen Screen Interval	, , ,	ERNES Easting 366029 Water Supply 53.4 (masl) Casing Material: Bottom of Screen		489702			Color	Flowing? SWL Pumping WL Pump Rate Spec. Cap.	N 18.3 39.0 22.7 1.10	(mbgs) (mbgs) (LPM) (LPM/m) Soil Descripti	74.1 (masl) 53.4 (masl) 2 / 0 Hour / Minute
		···-9				1.8	90.6	BLUE		CLAY /		I
21-Jun-21						1.0	90.0	BLUE		CLAY /		,

Vell Record #											
				2.4	90.0	BROWN	LIMES	STONE /	SHAL	.E /	
				38.1	54.3	BLUE		STONE /		1	
				41.1	51.3	GREEN	LIMES	STONE /		1	
3705623	Lot 033 Conc 01	ERNESTOWN TOWNSH	IIP / LENNO	X & ADDIN	IGTON		Flowing? N				
Date 12/4/1980	Elev 87.9 (masl)	Easting 366229 Northing	4896921				SWL	15.2	(mbgs)	72.6 (mas	,
DD/MM/YYYY	/ Domestic	Water Supply UTM RO	C 4 margin	of error : 30 r	n - 100 m		Pumping WL Pump Rate	26.2 36.4	(mbgs) (LPM)	61.7 (mas 2 / 0	SI)
	Water Found 28.3 (mbgs)	59.5 (masl) SULPHUR	ŭ				Spec. Cap.	3.31	(LPM/m)	Hour / Minut	to
	Casing Diameter 6 inch	Casing Material: STEEL		Depth (m)	Elev (masl)		орес. оар.	0.01	(21 110111)	rioui / illinui	
	Top of Screen (mbgs)	Bottom of Screen (mbgs)		0.0	87.9	Color			Soil Descr	iptions	
		Dottom of ocitem (maga)									
	Screen Interval (m)										
				0.6	87.3	BLUE		CLAY /		1	
				29.3	58.6	BLUE	LIMES	STONE /			
3705733	Lot 033 Conc 01	ERNESTOWN TOWNSH	IIP / LENNO	X & ADDIN	IGTON		Flowing?				
Date 6/8/1981	Elev 75.4 (masl)	Easting 366529 Northing	4896821				SWL		(mbgs)	(mas	,
DD/MM/YYYY	/	Abandoned-Supply UTM R0		of error : 30 r	n - 100 m		Pumping WL		(mbgs)	(mas	SI)
	Water Found (mbgs)	***	· · · · · · · · · · · · · · · · · · ·				Pump Rate Spec. Cap.		(LPM) (LPM/m)	/ Hour / Minut	to
	Casing Diameter	Casing Material:		Depth (m)	Elev (masl)		орес. Сар.		(FLIANIII)	i ioui / Williut	
	•	•		0.0	75.4	Color			Soil Descr	iptions	
	Top of Screen (mbgs)	Bottom of Screen (mbgs)									
	Screen Interval (m)										
				0.6	74.8	BROWN		PSOIL /		1	
				53.0	22.4	BLUE		STONE /		/	
				59.4	16.0	RED		RANITE /		/	
3705775	Lot 032 Conc 01	ERNESTOWN TOWNSH	IIP / LENNO	X & ADDIN	IGTON		Flowing? N				_
Date 6/29/1981	Elev 89.5 (masl)	Easting 365829 Northing	4897021				SWL	12.5	(mbgs)	77.0 (mas	•
DD/MM/YYYY	/ Domestic	Water Supply UTM RO		of error : 30 r	n - 100 m		Pumping WL Pump Rate	39.3 13.6	(mbgs) (LPM)	50.2 (mas 1 / 0	SI)
	Water Found 37.8 (mbgs)	51.7 (masl) Not stated	_				Spec. Cap.	0.51	(LPM/m)	Hour / Minut	te
	Casing Diameter 6 inch	Casing Material: STEEL		Depth (m)	Elev (masl)		Speed Jap.	J.U.	` ,		
	Top of Screen (mbgs)	Bottom of Screen (mbgs)		0.0	89.5	Color			Soil Descr	iptions	
	•	Dottom of Scientiff (mbgs)									
	Screen Interval (m)										
				0.3	89.2			PSOIL /		/	
				39.3	50.2	BLUE		STONE /		I	
3705776	Lot 029 Conc 01	ERNESTOWN TOWNSH	IIP / LENNO	X & ADDIN	IGTON		Flowing? N				
Date 8/8/1981	Elev 76.6 (masl)	Easting 364929 Northing	4897121				SWL	6.1	(mbgs)	70.5 (mas	,
DD/MM/YYYY	/ Domestic	Water Supply UTM RO		of error : 30 r	n - 100 m		Pumping WL Pump Rate	18.9 22.7	(mbgs) (LPM)	57.7 (mas 1 / 0	5I <i>)</i>
	Water Found 6.1 (mbgs)		J				Spec. Cap.	1.78	(LPM/m)	Hour / Minut	te
	Casing Diameter 6 inch	Casing Material: STEEL		Depth (m)	Elev (masl)		opeo. oup.		\ · ······	i iodi , imilat	
	Top of Screen (mbgs)	Bottom of Screen (mbgs)		0.0	76.6	Color			Soil Descr	iptions	
		Dottom of October (mogs)									
	Screen Interval (m)										
				0.3	76.3		TC	PSOIL /		1	
				18.9	57.7			STONE /			

Vell Record #										
3705828	Lot 035 Conc 01	ERNEST	TOWN TOWNSHIP	P / LENNOX & ADDI	NGTON		Flowing? N			
Date 10/14/1982	Elev 81.7 (masl)	Easting 367329	Northing	4897121			SWL	10.7	(mbgs)	71.0 (masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC		m - 100 m		Pumping WL	28.7 13.6	(mbgs) (LPM)	53.0 (masl) 3 / 0
	Water Found 12.8 (mbgs)		SULPHUR	g			Pump Rate Spec. Cap.	0.76	(LPM) (LPM/m)	3 / 0 Hour / Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)		эрес. Сар.	0.70	(LFW/III)	rioui / Williate
	• • • • • • • • • • • • • • • • • • • •	ū		0.0	81.7	Color			Soil Descrip	otions
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)							
	Screen Interval (m)									
				0.3	81.4	BLUE		CLAY /		1
				0.9	80.8	BROWN		ESTONE /		1
				25.9	55.8	BLUE		ESTONE /		1
				26.5	55.2	GREEN		ESTONE /		/
				29.6	52.1	BLUE	LIM	ESTONE /		1
3705949	Lot 031 Conc 01	ERNES1	TOWN TOWNSHIP	P / LENNOX & ADDI	NGTON		Flowing? N			
Date 11/14/1983	Elev 88.8 (masl)	Easting 365429	Northing	4896821			SWL	0.9	(mbgs)	87.9 (masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC		m - 100 m		Pumping WL	7.6	(mbgs)	81.2 (masl)
<i>DD</i> ///////////////////////////////////	Water Found 6.1 (mbgs)		Not stated	. margin or circl . co			Pump Rate	45.5	(LPM)	1 / 0 Hour / Minute
	Casing Diameter 6 inch	Casing Material:		Depth (m)	Elev (masl)		Spec. Cap.	6.78	(LPM/m)	Hour / Minute
	•	-		0.0	88.8	Color			Soil Descrip	otions
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)							
	Screen Interval (m)									
				7.6	81.2	BLUE	LIM	ESTONE /		1
3705950	Lot 030 Conc 01	ERNES1	TOWN TOWNSHIP	P / LENNOX & ADDI	NGTON		Flowing? N			
Date 12/13/1983	Elev 81.9 (masl)	Easting 365129	Northing	4896821			SWL	3.0	(mbgs)	78.8 (masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC		m - 100 m		Pumping WL	27.7	(mbgs)	54.1 (masl)
22,	Water Found (mbgs)		· · · · · · · · ·	. margin or circl : 00			Pump Rate	136.4	(LPM)	1 / 0
	Casing Diameter 6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)		Spec. Cap.	5.52	(LPM/m)	Hour / Minute
	· ·	· ·		0.0	81.9	Color			Soil Descrip	otions
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)							
	Screen Interval (m)									
				0.3	81.6		7	OPSOIL /		1
				27.7	54.1		LIM	ESTONE /		1
3705966	Lot 029 Conc 01	ERNEST	TOWN TOWNSHIP	P / LENNOX & ADDI	NGTON		Flowing? N			
		Facility 001000	Newfel	4007004	-		SWL	3.7	(mbgs)	80.7 (masl)
Date 10/18/1983 DD/MM/YYYY	Elev 84.3 (masl) / Domestic	Easting 364829	Northing UTM RC	4897321	m 100 m		Pumping WL	13.1	(mbgs)	71.2 (masl)
UU/WIW/Y Y Y Y	/ Domestic Water Found 7.0 (mbgs)	Water Supply 77.3 (masl)	FRESH	4 margin of error : 30	n - 100 M		Pump Rate	68.2	(LPM)	2 / 0
	` • ,			Depth (m)	Elev (masl)		Spec. Cap.	7.22	(LPM/m)	Hour / Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	0.0	84.3	Color			Soil Descrip	otions
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)	5.5	·				30 2030iij	
	Screen Interval (m)									
				0.3	84.0	BROWN	7	OPSOIL /		1
				0.3 4.9	84.0 79.4	BROWN BROWN	-	OPSOIL /	SHALE	<i>I</i> ≣ <i>I</i>

/ell Record #											
3706074	Lot 033 Conc 01	ERNES1	TOWN TOWNSHIP	/ LENNOX & ADDIN	NGTON		Flowing? N				
ate 6/9/1984	Elev 92.3 (masl)	Easting 365829	Northing	4897721			SWL	17.7	(mbgs)	74.6	(masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC		n - 100 m		Pumping WL	40.8	(mbgs)	51.5	(masl)
	Water Found 40.8 (mbgs)		SULPHUR	J 2			Pump Rate	27.3	(LPM)		/ 0
				Depth (m)	Elev (masl)		Spec. Cap.	1.18	(LPM/m)	Hour	/ Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	0.0	92.3	Color			Soil Descrip	tions	
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)								
	Screen Interval (m)										
				0.9	91.4	BLUE		CLAY /		,	
				1.2	91.1	BROWN		SHALE /		,	
				40.5	51.8	BLUE	LIM	IESTONE /		,	
				41.5	50.9	BLACK		IESTONE /		,	
2706420	Lot 034 Conc 01	EDNECT	TOWN TOWNSHIP	/ LENNOX & ADDIN			Flowing? N				
3706139	Lot 034 Conc 01	EKNESI	I CANIN I CANINOUIL	LEININGY & ADDIL	NOTON		SWL	6.1	(mbgs)	75.4	(masl)
ate 7/22/1984	Elev 81.5 (masl)	Easting 366829	Northing	4896921			Pumping WL	24.4	(mbgs)	57.2	(masi)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC	4 margin of error : 30 r	m - 100 m		Pump Rate	-	(LPM)		/·········/
	Water Found 22.9 (mbgs)	58.7 (masl)	FRESH				Spec. Cap.		(LPM/m)	Hour	/ Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)						
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)	0.0	81.5	Color			Soil Descrip	tions	
	•	Bottom or Screen	(Hibgs)								
	Screen Interval (m)										
				0.9	80.6	RED		SAND /	TOPSOI	L /	
				24.4	57.2	BLUE	LIM	IESTONE /		/	
3706506	Lot 032 Conc 01	ERNES1	TOWN TOWNSHIP	/ LENNOX & ADDIN	NGTON		Flowing? N				
		= .:		1000101			SWL	12.2	(mbgs)	87.8	(masl)
ate 4/28/1987 DD/MM/YYYY	Elev 100.0 (masl)	Easting 365199	•	4898464			Pumping WL	32.9	(mbgs)	67.0	(masl)
DD/IVIIVI/TTT	/ Domestic Water Found 21.9 (mbgs)	Water Supply 78.0 (masl)	UTM RC Sulphur	9 unknown UTM			Pump Rate	27.3	(LPM)		/ 0
		, ,		Depth (m)	Elev (masl)		Spec. Cap.	1.32	(LPM/m)	Hour	/ Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	0.0	100.0	Color			Soil Descrip	tions	
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)	0.0	100.0	COIOI			3011 Descrip	lions	
	Screen Interval (m)										
	(,			0.9	99.0	BROWN		SHALE /		,	
				0.9 27.7	99.0 72.2	BLUE	1 184	SHALE /		,	
				28.7	71.3	GREEN		IESTONE /		,	
				34.4	65.5	GREEN		IESTONE /		,	
2706745	Let 024 Come 04	EDNEST	TOWN TOWNSHIP			J.,_1	Flowing? N				
3706745	Lot 034 Conc 01	EKNESI	OWN TOWNSHIP	' LENNOX & ADDIN	NGTON		SWL	9.1	(mbgs)	88.9	(masl)
ate 8/20/1988	Elev 98.0 (masl)	Easting 365919	Northing	4898814			Pumping WL	28.7	(mbgs)	69.4	(masi)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC	9 unknown UTM			Pump Rate	9.1	(LPM)		/ 0
	Water Found 21.3 (mbgs)	76.7 (masl)	SULPHUR				Spec. Cap.	0.47	(LPM/m)		/ Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)		-h h .		` ,		
	•	ū		0.0	98.0	Color			Soil Descrip	tions	
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)								
	Screen Interval (m)										
				1.8	96.2			TOPSOIL /	SOFT	1	LIMESTONE
				15.2	82.8	GREY	LINKNO	NN TYPE /	HARD	,	
				15.2	02.0	GKLI	01411401	WIN	IIAND		
				21.3	76.7	GREY		IESTONE /	HAILD	,	

Vell Record #										
3706849	Lot 035 Conc 01	ERNEST	OWN TOWNSHIP	/ LENNOX & ADDI	NGTON		Flowing? N			
Date 7/12/1988	Elev 96.4 (masl)	Easting 366292	Northing	4898980			SWL	7.6	(mbgs)	88.7 (masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC				Pumping WL	30.8	(mbgs)	65.6 (masl)
	Water Found 29.3 (mbgs)		Not stated	o unknown onw			Pump Rate	27.3	(LPM)	1 / 0
	Casing Diameter 6 inch	Casing Material:		Depth (m)	Elev (masl)		Spec. Cap.	1.18	(LPM/m)	Hour / Minute
	· ·	•		0.0	96.4	Color			Soil Descri	ptions
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)							
	Screen Interval (m)									
				0.6	95.7			TOPSOIL /		1
				30.8	65.6	BLUE	LIN	ESTONE /		1
3706868	Lot 033 Conc 01	ERNEST	OWN TOWNSHIP	/ LENNOX & ADDI	NGTON		Flowing? N			
Doto 11/10/1007							SWL	14.0	(mbgs)	81.0 (masl)
Date 11/19/1987 DD/MM/YYYY	Elev 95.1 (masl) / Domestic	Easting 365524 Water Supply	Northing UTM RC	4898653 9 unknown UTM			Pumping WL	45.7	(mbgs)	49.3 (masl)
	Water Found 29.9 (mbgs)		Not stated	UIIKIIOWII U I W			Pump Rate	22.7	(LPM)	1 / 0
	, .,			Depth (m)	Elev (masl)		Spec. Cap.	0.72	(LPM/m)	Hour / Minute
	Casing Diameter 6 inch	Casing Material:		0.0	95.1	Color			Soil Descri	ptions
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)							
	Screen Interval (m)									
				0.9	94.1			TOPSOIL /		1
				45.7	49.3		LIN	ESTONE /		
3708038	Lot 033 Conc 01	ERNEST	OWN TOWNSHIP	/ LENNOX & ADDI	NGTON		Flowing? N			
Date 7/1/1992	Elev 95.1 (masl)	Easting 365524	Northing	4898653			SWL	14.3	(mbgs)	80.7 (masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC				Pumping WL Pump Rate	31.4 31.8	(mbgs) (LPM)	63.7 (masl) 2 / 0
	Water Found 32.6 (mbgs)	62.4 (masl)	FRESH				Spec. Cap.	1.86	(LPM/m)	Hour / Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	Depth (m)	Elev (masl)		орос. сар.		(=:,	Trout, Illinois
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)	0.0	95.1	Color			Soil Descri	ptions
		Bottom of ocreen	(mbgs)							
	Screen Interval (m)									_
				0.6	94.5	BROWN		TOPSOIL /		/
				32.6 33.5	62.4 61.5	BLUE BROWN		IESTONE /		1
						BROWN		ILSTONE 7		<u> </u>
3708222	Lot 031 Conc 01	ERNEST	OWN TOWNSHIP	P / LENNOX & ADDI	NGTON		Flowing? N SWL	11.3	(mbgs)	73.8 (masl)
Date 7/16/1993	Elev 85.1 (masl)	Easting 365379	Northing	4897390			Pumping WL	22.6	(mbgs)	62.6 (masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC	5 margin of error : 100	m - 300 m		Pump Rate	27.3	(LPM)	2 / 0
	Water Found 18.9 (mbgs)	66.2 (masl)	FRESH				Spec. Cap.	2.42	(LPM/m)	Hour / Minute
	Casing Diameter 6 inch	Casing Material:	STEEL	Depth (m)	Elev (masi)	0-1			Call Dec	anti a ma
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)	0.0	85.1	Color			Soil Descri	ptions
	Screen Interval (m)									
	, ,			0.3	84.8	BROWN		TOPSOIL /		1
				3.4	81.8	BROWN		ESTONE /		. 1
				17.7	67.4	BLUE		ESTONE /		1
				21.0	64.1	BROWN	LIN	IESTONE /		1
				22.9	62.3	BLUE		ESTONE /		

24.1

61.0

BROWN

LIMESTONE /

Well Record #									
3708308	Lot 034 Conc 01	ERNESTOW	N TOWNSHIP	/ LENNOX & ADDII	NGTON	FI	owing?		
Date 1/25/1994 DD/MM/YYYY	Elev 86.4 (masl) / Not Used	Easting 367138	Northing	4897276		Pump	SWL ping WL	(mbgs) (mbgs)	(masl) (masl)
DD/MM/YYYY	Water Found (mbgs)	Observation Wells (masl)	UTM RC 5	margin of error : 100	m - 300 m		np Rate ec. Cap.	(LPM) (LPM/m)	/ Hour / Minute
	Casing Diameter 6 inch	Casing Material: STE	EL	Depth (m) 0.0	Elev (masl) 86.4	•	очр.		
	Top of Screen 7.6 (mbgs)	Bottom of Screen 10.7	(mbgs)	0.0	00.4	Color		Soil Descript	ions
	Screen Interval 3.0 (m)								
				1.5	84.9	BROWN	GRAVEL /	CLAY	/ FILL
				10.7	75.7	GREY	LIMESTONE /	HARD	
3708309	Lot 034 Conc 01	ERNESTOW	N TOWNSHIP	/ LENNOX & ADDII	NGTON	FI	owing? SWL	(mbgs)	(masl)
Date 2/3/1994	Elev 86.7 (masl)	Easting 367139	Northing	4897285		Pump	oing WL	(mbgs)	(masi)
DD/MM/YYYY	Not Used / Domestic Water Found (mbgs)	Observation Wells (masl)	UTM RC 5	margin of error : 100	m - 300 m	Pur	np Rate	(LPM)	1
				Depth (m)	Elev (masl)	Spe	ec. Cap.	(LPM/m)	Hour / Minute
	Casing Diameter 6 inch	3		0.0	86.7	Color		Soil Descript	ions
	Top of Screen 45.7 (mbgs)	Bottom of Screen 48.8	(mbgs)						
	Screen Interval 3.0 (m)								
				1.5 14.3	85.1 72.3	BROWN GREY	GRAVEL / LIMESTONE /	CLAY HARD	/ FILL /
				48.8	37.9	GREY	LIMESTONE /	HARD	,
3708310	Lot 035 Conc 09	ERNESTOW	N TOWNSHIP	/ LENNOX & ADDII	NGTON	FI	owing?		
Date 2/4/1994	Elev 86.2 (masl)	Easting 367149	Northing	4897277			SWL	(mbgs)	(masl)
DD/MM/YYYY	Not Used / Domestic	Observation Wells	UTM RC 5		m - 300 m		oing WL np Rate	(mbgs) (LPM)	(masl)
	Water Found (mbgs)	(masl)		ū			ec. Cap.	(LPM/m)	Hour / Minute
	Casing Diameter 6 inch	Casing Material: STE	EL	Depth (m) 0.0	Elev (masl) 86.2	•	·	O-II DI-I	
	Top of Screen 39.6 (mbgs)	Bottom of Screen 44.2	(mbgs)	0.0	86.2	Color		Soil Descript	lions
	Screen Interval 4.6 (m)								
				0.6	85.6	BLACK	TOPSOIL /	SOFT	1
				44.2	42.0	GREY	LIMESTONE /	HARD	1
3708320	Lot 032 Conc 01	ERNESTOW	N TOWNSHIP	/ LENNOX & ADDII	NGTON	FI	owing? N		/ "
Date 3/2/1994	Elev 100.0 (masl)	Easting 365199	Northing	4898464		Pumr	SWL 12.5 sing WL 31.1	(mbgs) (mbgs)	87.5 (masl) 68.9 (masl)
DD/MM/YYYY	/ Domestic	Water Supply	UTM RC 9	unknown UTM			np Rate 27.3	(LPM)	2 / 0
	Water Found 31.1 (mbgs)	68.9 (masl)	SULPHUR	Depth (m)	Elev (masl)	Spe	ec. Cap. 1.47	(LPM/m)	Hour / Minute
	Casing Diameter 6 inch	Casing Material: STE		Depth (m) 0.0	100.0	Color		Soil Descript	ions
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)						
	Screen Interval (m)								
				0.3 21.9	99.7 78.0	BROWN BLUE	TOPSOIL / LIMESTONE /		<i>I</i>

23.8

30.5

31.1

32.9

GREEN

BLUE

GREEN

BLUE

76.2

69.5

68.9

67.0

LIMESTONE /

LIMESTONE /

LIMESTONE /

LIMESTONE /

Well Record #												
3708386	Lot 034 Conc	01	ERNES	TOWN TOWNSHIE	P / LENNOX & ADDI	NGTON		Flowing?				
Date 10/6/1994	Elev 98.0	(masl)	Easting 365919	Northing	4898814			SWL		(mbgs)	(masl)	
DD/MM/YYYY		()	Abandoned-Supply	UTM RC				Pumping WL Pump Rate		(mbgs) (LPM)	(masl)	
	Water Found	(mbgs)						Spec. Cap.		(LPM/m)	/ Hour / Minute	
	Casing Diameter		Casing Material:		Depth (m)	Elev (masl)		орсо. оар.		(=:,		
	Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	98.0	Color			Soil Descript	tions	
	•		Bottom of Screen	(mbga)								
	Screen Interval	(m)										
					0.9	97.1	BROWN		PSOIL /		<i>I</i> <i>I</i>	
					26.2	71.8	BLUE		TONE /			
3708479	Lot 032 Conc	01	ERNES'	TOWN TOWNSHIE	P / LENNOX & ADDII	NGTON		Flowing? N				
Date 7/7/1993	Elev 100.0	(masl)	Easting 365199	Northing	4898464				15.8 36.3	(mbgs)	84.1 (masl) 63.7 (masl)	
DD/MM/YYYY	/ Dom		Water Supply	UTM RC					36.3 45.5	(mbgs) (LPM)	3 / 0	
	Water Found 36.3	3 (mbgs)	63.7 (masl)	FRESH				•	43.3 2.23	(LPM/m)	Hour / Minute	
	Casing Diameter 6	inch	Casing Material:	STEEL	Depth (m)	Elev (masl)		Steer Sub.		, ,		
	Top of Screen	(mbgs)	Bottom of Screen	(mbgs)	0.0	100.0	Color			Soil Descript	tions	
	Screen Interval		25	(30)								
	ocieen intervai	(m)									,	
					0.6 2.4	99.4	BROWN BROWN		SAND / TONE /	GRAVEL FRACTUR		
					2.4 17.1	97.5 82.9	BLUE		TONE /	FRACTUR	ED /	
					18.3	81.7	GREEN		TONE /		,	
					36.0	64.0	BLUE		TONE /		1	
					38.7	61.3	GREEN	LIMES	TONE /		1	
3708514	Lot 033 Conc	0.4										
		01	ERNES	TOWN TOWNSHII	P / LENNOX & ADDII	NGTON		Flowing? N				
		01			P / LENNOX & ADDI	NGTON		-	4.3	(mbgs)	90.8 (masl)	
Date 9/29/1995	Elev 95.1	(masl)	Easting 365524	1 Northing	4898653	NGTON		SWL Pumping WL	18.9	(mbgs)	76.2 (masl)	
	Elev 95.1 / Dom	(masl) estic	Easting 365524 Water Supply	Northing UTM RC	4898653	NGTON		SWL Pumping WL Pump Rate	18.9 22.7	(mbgs) (LPM)	76.2 (masl) 2 / 0	
Date 9/29/1995	Elev 95.1 / Dom Water Found 12.2	(masl) estic 2 (mbgs)	Easting 365524 Water Supply 82.9 (masl)	Northing UTM RC FRESH	4898653	NGTON Elev (masl)		SWL Pumping WL Pump Rate	18.9	(mbgs)	76.2 (masl)	
Date 9/29/1995	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6	(masl) nestic (mbgs) inch	Easting 365524 Water Supply 82.9 (masl) Casing Material:	Northing UTM RC FRESH STEEL	4898653 9 unknown UTM		Color	SWL Pumping WL Pump Rate	18.9 22.7	(mbgs) (LPM)	76.2 (masl) 2 / 0 Hour / Minute	
Date 9/29/1995	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6 Top of Screen	(masl) sestic (mbgs) inch (mbgs)	Easting 365524 Water Supply 82.9 (masl)	Northing UTM RC FRESH	4898653 9 unknown UTM Depth (m)	Elev (masi)		SWL Pumping WL Pump Rate	18.9 22.7	(mbgs) (LPM) (LPM/m)	76.2 (masl) 2 / 0 Hour / Minute	
Date 9/29/1995	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6	(masl) nestic (mbgs) inch	Easting 365524 Water Supply 82.9 (masl) Casing Material:	Northing UTM RC FRESH STEEL	4898653 9 unknown UTM Depth (m)	Elev (masi)		SWL Pumping WL Pump Rate	18.9 22.7	(mbgs) (LPM) (LPM/m)	76.2 (masl) 2 / 0 Hour / Minute	
Date 9/29/1995	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6 Top of Screen	(masl) sestic (mbgs) inch (mbgs)	Easting 365524 Water Supply 82.9 (masl) Casing Material:	Northing UTM RC FRESH STEEL	4898653 9 unknown UTM Depth (m)	Elev (masi)	Color	SWL Pumping WL Pump Rate Spec. Cap.	18.9 22.7 1.55	(mbgs) (LPM) (LPM/m)	76.2 (masl) 2 / 0 Hour / Minute	
Date 9/29/1995	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6 Top of Screen	(masl) sestic (mbgs) inch (mbgs)	Easting 365524 Water Supply 82.9 (masl) Casing Material:	Northing UTM RC FRESH STEEL	4898653 9 unknown UTM Depth (m) 0.0 3.4 4.0	Elev (masl) 95.1 91.7 91.1	Color BLUE BROWN	SWL Pumping WL Pump Rate Spec. Cap.	18.9 22.7 1.55 CLAY /	(mbgs) (LPM) (LPM/m)	76.2 (masl) 2 / 0 Hour / Minute	
Date 9/29/1995	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6 Top of Screen	(masl) sestic (mbgs) inch (mbgs)	Easting 365524 Water Supply 82.9 (masl) Casing Material:	Northing UTM RC FRESH STEEL	4898653 9 unknown UTM Depth (m) 0.0 3.4 4.0 12.2	95.1 91.7 91.1 82.9	Color BLUE BROWN BLUE	SWL Pumping WL Pump Rate Spec. Cap. S	18.9 22.7 1.55 CLAY / SHALE / TONE /	(mbgs) (LPM) (LPM/m)	76.2 (masl) 2 / 0 Hour / Minute	
Date 9/29/1995	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6 Top of Screen	(masl) sestic (mbgs) inch (mbgs)	Easting 365524 Water Supply 82.9 (masl) Casing Material:	Northing UTM RC FRESH STEEL	4898653 9 unknown UTM Depth (m) 0.0 3.4 4.0 12.2 12.8	Elev (masl) 95.1 91.7 91.1 82.9 82.3	Color BLUE BROWN BLUE BROWN	SWL Pumping WL Pump Rate Spec. Cap. S LIMES	18.9 22.7 1.55 CLAY / SHALE / TONE /	(mbgs) (LPM) (LPM/m)	76.2 (masl) 2 / 0 Hour / Minute	
Date 9/29/1995 DD/MM/YYYY	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6 Top of Screen Screen Interval	(masl) lestic 2 (mbgs) inch (mbgs) (m)	Easting 365524 Water Supply 82.9 (masl) Casing Material: Bottom of Screen	UTM RC UTM RC FRESH STEEL (mbgs)	4898653 9 unknown UTM Depth (m) 0.0 3.4 4.0 12.2 12.8 21.3	91.7 91.1 82.9 82.3 73.7	Color BLUE BROWN BLUE	SWL Pumping WL Pump Rate Spec. Cap. S LIMES LIMES LIMES LIMES	18.9 22.7 1.55 CLAY / SHALE / TONE /	(mbgs) (LPM) (LPM/m)	76.2 (masl) 2 / 0 Hour / Minute	
Date 9/29/1995	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6 Top of Screen	(masl) lestic 2 (mbgs) inch (mbgs) (m)	Easting 365524 Water Supply 82.9 (masl) Casing Material: Bottom of Screen	UTM RC UTM RC FRESH STEEL (mbgs)	4898653 9 unknown UTM Depth (m) 0.0 3.4 4.0 12.2 12.8	91.7 91.1 82.9 82.3 73.7	Color BLUE BROWN BLUE BROWN	SWL Pumping WL Pump Rate Spec. Cap. S LIMES LIMES LIMES Flowing? N	18.9 22.7 1.55 CLAY / SHALE / TONE / TONE /	(mbgs) (LPM) (LPM/m) Soil Descript	76.2 (masl) 2 / 0 Hour / Minute tions	
Date 9/29/1995 DD/MM/YYYY 3708800 Date 4/21/1998	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6 Top of Screen Screen Interval Lot 034 Conc Elev 98.0	(masl) lestic (masl) lestic (mbgs) inch (mbgs) (m)	Easting 365524 Water Supply 82.9 (masl) Casing Material: Bottom of Screen ERNES Easting 365915	UTM RC FRESH STEEL (mbgs) TOWN TOWNSHIP	4898653 9 unknown UTM Depth (m) 0.0 3.4 4.0 12.2 12.8 21.3 P / LENNOX & ADDIN 4898814	91.7 91.1 82.9 82.3 73.7	Color BLUE BROWN BLUE BROWN BLUE	SWL Pumping WL Pump Rate Spec. Cap. S LIMES LIMES LIMES Flowing? N SWL	18.9 22.7 1.55 CLAY / SHALE / TONE /	(mbgs) (LPM) (LPM/m)	76.2 (masl) 2 / 0 Hour / Minute	
Date 9/29/1995 DD/MM/YYYY	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6 Top of Screen Screen Interval Lot 034 Conc Elev 98.0 / Dom	(masl) lestic (mbgs) inch (mbgs) (m) 01	Easting 365524 Water Supply 82.9 (masl) Casing Material: Bottom of Screen ERNES Easting 365919 Water Supply	UTM RC FRESH STEEL (mbgs) TOWN TOWNSHIE UTM RC	4898653 9 unknown UTM Depth (m) 0.0 3.4 4.0 12.2 12.8 21.3 P / LENNOX & ADDIN 4898814	91.7 91.1 82.9 82.3 73.7	Color BLUE BROWN BLUE BROWN BLUE	SWL Pumping WL Pump Rate Spec. Cap. S LIMES LIMES LIMES Flowing? N SWL Pumping WL	18.9 22.7 1.55 CLAY / HALE / TONE / TONE /	(mbgs) (LPM) (LPM/m) Soil Descript	76.2 (masl) 2 / 0 Hour / Minute tions / / / / 92.8 (masl)	
Date 9/29/1995 DD/MM/YYYY 3708800 Date 4/21/1998	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6 Top of Screen Screen Interval Lot 034 Conc Elev 98.0	(masl) lestic (mbgs) inch (mbgs) (m) 01	Easting 365524 Water Supply 82.9 (masl) Casing Material: Bottom of Screen ERNES Easting 365919 Water Supply	UTM RC FRESH STEEL (mbgs) FOWN TOWNSHIP ONORTHING UTM RC FRESH	4898653 9 unknown UTM Depth (m) 0.0 3.4 4.0 12.2 12.8 21.3 P / LENNOX & ADDIN 4898814 9 unknown UTM	91.7 91.1 82.9 82.3 73.7	Color BLUE BROWN BLUE BROWN BLUE	SWL Pumping WL Pump Rate Spec. Cap. S LIMES LIMES LIMES Flowing? N SWL Pumping WL Pump Rate	18.9 22.7 1.55 CLAY / SHALE / TONE / TONE /	(mbgs) (LPM) (LPM/m) Soil Descript (mbgs) (mbgs)	76.2 (masl) 2 / 0 Hour / Minute tions / / / / / 92.8 (masl) 82.2 (masl)	
Date 9/29/1995 DD/MM/YYYY 3708800 Date 4/21/1998	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6 Top of Screen Screen Interval Lot 034 Conc Elev 98.0 / Dom Water Found 8.5	(masl) lestic (mbgs) inch (mbgs) (m) 01	Easting 365524 Water Supply 82.9 (masl) Casing Material: Bottom of Screen ERNES Easting 365919 Water Supply	UTM RC FRESH STEEL (mbgs) TOWN TOWNSHIE UTM RC	4898653 9 unknown UTM Depth (m) 0.0 3.4 4.0 12.2 12.8 21.3 P / LENNOX & ADDIN 4898814 9 unknown UTM Depth (m)	91.7 91.1 82.9 82.3 73.7 NGTON	Color BLUE BROWN BLUE BROWN BLUE	SWL Pumping WL Pump Rate Spec. Cap. S LIMES LIMES LIMES Flowing? N SWL Pumping WL Pump Rate	18.9 22.7 1.55 CLAY / SHALE / TONE / TONE / 5.2 15.8 45.5	(mbgs) (LPM) (LPM/m) Soil Descript (mbgs) (mbgs) (mbgs) (LPM) (LPM/m)	76.2 (masl) 2 / 0 Hour / Minute tions / / / / 92.8 (masl) 82.2 (masl) 2 / 0 Hour / Minute	
Date 9/29/1995 DD/MM/YYYY 3708800 Date 4/21/1998	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6 Top of Screen Screen Interval Lot 034 Conc Elev 98.0 / Dom Water Found 8.5	(masl) lestic (mbgs) inch (mbgs) (m) 01 (masl) lestic (mbgs)	Easting 365524 Water Supply 82.9 (masl) Casing Material: Bottom of Screen ERNES Easting 365915 Water Supply 89.5 (masl)	UTM RC FRESH STEEL (mbgs) FOWN TOWNSHIP ONORTHING UTM RC FRESH	4898653 9 unknown UTM Depth (m) 0.0 3.4 4.0 12.2 12.8 21.3 P / LENNOX & ADDIN 4898814 9 unknown UTM	91.7 91.1 82.9 82.3 73.7	Color BLUE BROWN BLUE BROWN BLUE	SWL Pumping WL Pump Rate Spec. Cap. S LIMES LIMES LIMES Flowing? N SWL Pumping WL Pump Rate	18.9 22.7 1.55 CLAY / SHALE / TONE / TONE / 5.2 15.8 45.5	(mbgs) (LPM) (LPM/m) Soil Descript (mbgs) (mbgs) (mbgs) (LPM)	76.2 (masl) 2 / 0 Hour / Minute tions / / / / 92.8 (masl) 82.2 (masl) 2 / 0 Hour / Minute	
Date 9/29/1995 DD/MM/YYYY 3708800 Date 4/21/1998	Elev 95.1 / Dom	(masl) lestic (mbgs) inch (mbgs) (m) O1 (masl) lestic (mbgs) inch	Easting 365524 Water Supply 82.9 (masl) Casing Material: Bottom of Screen ERNES Easting 365919 Water Supply 89.5 (masl) Casing Material:	I Northing UTM RC FRESH STEEL (mbgs) FOWN TOWNSHIP O Northing UTM RC FRESH	4898653 9 unknown UTM Depth (m) 0.0 3.4 4.0 12.2 12.8 21.3 P / LENNOX & ADDIN 4898814 9 unknown UTM Depth (m)	91.7 91.1 82.9 82.3 73.7 NGTON	Color BLUE BROWN BLUE BROWN BLUE	SWL Pumping WL Pump Rate Spec. Cap. S LIMES LIMES LIMES Flowing? N SWL Pumping WL Pump Rate	18.9 22.7 1.55 CLAY / SHALE / TONE / TONE / 5.2 15.8 45.5	(mbgs) (LPM) (LPM/m) Soil Descript (mbgs) (mbgs) (mbgs) (LPM) (LPM/m)	76.2 (masl) 2 / 0 Hour / Minute tions / / / / 92.8 (masl) 82.2 (masl) 2 / 0 Hour / Minute	
Date 9/29/1995 DD/MM/YYYY 3708800 Date 4/21/1998	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6 Top of Screen Screen Interval Lot 034 Conc Elev 98.0 / Dom Water Found 8.5 Casing Diameter 6 Top of Screen	(masl) lestic (mbgs) inch (mbgs) (m) O1 (masl) lestic (mbgs) inch (mbgs)	Easting 365524 Water Supply 82.9 (masl) Casing Material: Bottom of Screen ERNES Easting 365919 Water Supply 89.5 (masl) Casing Material:	I Northing UTM RC FRESH STEEL (mbgs) FOWN TOWNSHIP O Northing UTM RC FRESH	4898653 9 unknown UTM Depth (m) 0.0 3.4 4.0 12.2 12.8 21.3 P / LENNOX & ADDIN 4898814 9 unknown UTM Depth (m) 0.0	91.7 91.1 82.9 82.3 73.7 NGTON	Color BLUE BROWN BLUE BROWN BLUE	SWL Pumping WL Pump Rate Spec. Cap. S LIMES LIMES LIMES LIMES Proving? N SWL Pumping WL Pump Rate Spec. Cap.	18.9 22.7 1.55 CLAY / 6HALE / TONE / TONE / 5.2 15.8 45.5 4.26	(mbgs) (LPM) (LPM/m) Soil Descript (mbgs) (mbgs) (mbgs) (LPM) (LPM/m)	76.2 (masl) 2 / 0 Hour / Minute tions / / / / 92.8 (masl) 82.2 (masl) 2 / 0 Hour / Minute	
Date 9/29/1995 DD/MM/YYYY 3708800 Date 4/21/1998	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6 Top of Screen Screen Interval Lot 034 Conc Elev 98.0 / Dom Water Found 8.5 Casing Diameter 6 Top of Screen	(masl) lestic (mbgs) inch (mbgs) (m) O1 (masl) lestic (mbgs) inch (mbgs)	Easting 365524 Water Supply 82.9 (masl) Casing Material: Bottom of Screen ERNES Easting 365919 Water Supply 89.5 (masl) Casing Material:	I Northing UTM RC FRESH STEEL (mbgs) FOWN TOWNSHIP O Northing UTM RC FRESH	4898653 9 unknown UTM Depth (m) 0.0 3.4 4.0 12.2 12.8 21.3 P / LENNOX & ADDII 4898814 9 unknown UTM Depth (m) 0.0 0.6	91.7 91.1 82.9 82.3 73.7 NGTON Elev (masl) 98.0	BLUE BROWN BLUE BROWN BLUE	SWL Pumping WL Pump Rate Spec. Cap. S LIMES LIMES LIMES Flowing? N SWL Pumping WL Pump Rate Spec. Cap.	18.9 22.7 1.55 CLAY / HALE / TONE / TONE / 5.2 15.8 45.5 4.26	(mbgs) (LPM) (LPM/m) Soil Descript (mbgs) (mbgs) (mbgs) (LPM) (LPM/m)	76.2 (masl) 2 / 0 Hour / Minute tions / / / / 92.8 (masl) 82.2 (masl) 2 / 0 Hour / Minute	
Date 9/29/1995 DD/MM/YYYY 3708800 Date 4/21/1998	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6 Top of Screen Screen Interval Lot 034 Conc Elev 98.0 / Dom Water Found 8.5 Casing Diameter 6 Top of Screen	(masl) lestic (mbgs) inch (mbgs) (m) O1 (masl) lestic (mbgs) inch (mbgs)	Easting 365524 Water Supply 82.9 (masl) Casing Material: Bottom of Screen ERNES Easting 365919 Water Supply 89.5 (masl) Casing Material:	I Northing UTM RC FRESH STEEL (mbgs) FOWN TOWNSHIP O Northing UTM RC FRESH	4898653 9 unknown UTM Depth (m) 0.0 3.4 4.0 12.2 12.8 21.3 P / LENNOX & ADDIN 4898814 9 unknown UTM Depth (m) 0.0	91.7 91.1 82.9 82.3 73.7 NGTON	Color BLUE BROWN BLUE BROWN BLUE	SWL Pumping WL Pump Rate Spec. Cap. S LIMES LIMES LIMES Proving? N SWL Pumping WL Pump Rate Spec. Cap.	18.9 22.7 1.55 CLAY / 6HALE / TONE / TONE / 5.2 15.8 45.5 4.26	(mbgs) (LPM) (LPM/m) Soil Descript (mbgs) (mbgs) (mbgs) (LPM) (LPM/m)	76.2 (masl) 2 / 0 Hour / Minute tions / / / / 92.8 (masl) 82.2 (masl) 2 / 0 Hour / Minute	
Date 9/29/1995 DD/MM/YYYY 3708800 Date 4/21/1998	Elev 95.1 / Dom Water Found 12.2 Casing Diameter 6 Top of Screen Screen Interval Lot 034 Conc Elev 98.0 / Dom Water Found 8.5 Casing Diameter 6 Top of Screen	(masl) lestic (mbgs) inch (mbgs) (m) O1 (masl) lestic (mbgs) inch (mbgs)	Easting 365524 Water Supply 82.9 (masl) Casing Material: Bottom of Screen ERNES Easting 365919 Water Supply 89.5 (masl) Casing Material:	I Northing UTM RC FRESH STEEL (mbgs) FOWN TOWNSHIP O Northing UTM RC FRESH	4898653 9 unknown UTM Depth (m) 0.0 3.4 4.0 12.2 12.8 21.3 P / LENNOX & ADDIN 4898814 9 unknown UTM Depth (m) 0.0 0.6 1.5	91.7 91.1 82.9 82.3 73.7 NGTON Elev (masl) 98.0	Color BLUE BROWN BLUE BROWN BLUE Color BROWN BROWN	SWL Pumping WL Pump Rate Spec. Cap. S LIMES LIMES LIMES Flowing? N SWL Pumping WL Pump Rate Spec. Cap.	18.9 22.7 1.55 CLAY / HALE / TONE / TONE / TONE / 5.2 15.8 45.5 4.26	(mbgs) (LPM) (LPM/m) Soil Descript (mbgs) (mbgs) (mbgs) (LPM) (LPM/m)	76.2 (masl) 2 / 0 Hour / Minute tions / / / / 92.8 (masl) 82.2 (masl) 2 / 0 Hour / Minute	

Well Record #										
3708990	Lot 033 Conc 01	FRNESTO	WN TOWNSHII	P / LENNOX & ADDIN	NGTON		Flowing? N	l		
Date 5/20/1999 DD/MM/YYYY	Elev 95.0 (masl) / Domestic Water Found 47.5 (mbgs) Casing Diameter 6 inch	Easting 365523 Water Supply 47.4 (masl) Casing Material: S	Northing UTM RC SULPHUR STEEL	4898651	Elev (masl) 95.0	Color	SWL Pumping WL Pump Rate Spec. Cap.	15.8 15.8 200.0 9,999.99	· · · · · · · · ·	79.1 (masl) 79.1 (masl) 1 / 30 Hour / Minute
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)							
	Screen Interval (m)									
				0.3 47.2	94.7 47.7	GREY		TOPSOIL /		/ /
				58.2	36.8	GREY		MESTONE /	GRANITE	,
3709179	Lot 032 Conc 01	FRNESTO	WN TOWNSHI	P / LENNOX & ADDIN		OKET	Flowing?	ILOTOILE /	OKANIE	
					101011		SWL		(mbgs)	(masl)
Date 8/3/2000	Elev 100.2 (masl)	Easting 365196	Northing	4898465			Pumping WL		(mbgs)	(masl)
DD/MM/YYYY	/ Water Found (mbgs)	Abandoned-Quality (masl)	UTM RC	9 unknown UTM			Pump Rate		(LPM)	1
				Depth (m)	Elev (masl)		Spec. Cap.		(LPM/m)	Hour / Minute
	Casing Diameter	Casing Material:		0.0	100.2	Color			Soil Description	ons
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)							
	Screen Interval (m)				•					,
				2.1	98.1	BROWN		CLAY /		/
				3.0 7.3	97.2 92.9	GREY BLUE		SHALE / MESTONE /		,
				7.3 12.8	92.9 87.4	BLACK		MESTONE /		,
				29.6	70.7	BLUE		MESTONE /		,
				33.8	66.4	GREY		MESTONE /		,
				41.8	58.5	BLUE		MESTONE /		,
				42.7	57.6	BLACK	LIN	MESTONE /		1
3709234	Lot 033 Conc 01	ERNESTO	WN TOWNSHI	P / LENNOX & ADDIN	NGTON		Flowing?		(mh ma)	(maga))
Date 10/23/2000	Elev 94.6 (masl)	Easting 365520	Northing	4898652			SWL Pumping WL		(mbgs) (mbgs)	(masl) (masl)
DD/MM/YYYY	/ Not Used	Abandoned-Supply	UTM RC	9 unknown UTM			Pump Rate		(IIIDgs) (LPM)	(IIIasi) /
	Water Found (mbgs)	(masl)					Spec. Cap.		(LPM/m)	, Hour / Minute
	Casing Diameter	Casing Material:		Depth (m)	Elev (masl)		- F P		,	
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)	0.0	94.6	Color			Soil Description	ns
	Screen Interval (m)		(90)							
	()			1.5	93.1	BROWN		CLAY /	STONES	/ PACKED
				18.6	76.0	GREY	LIN	MESTONE /	HARD	/
3709238	Lot 033 Conc 01	ERNESTO	WN TOWNSHI	P / LENNOX & ADDIN	NGTON		Flowing?			
Date 10/20/2000	Elev 94.6 (masl)	Easting 365520	Northin -	4898652			SWL		(mbgs)	(masl)
DD/MM/YYYY	Elev 94.6 (masl) / Not Used	Easting 365520 Abandoned-Quality	Northing UTM RC				Pumping WL		(mbgs)	(masl)
	Water Found (mbgs)	•	UTWIRC	J UNKNOWN O I W			Pump Rate		(LPM)	/
				Depth (m)	Elev (masl)		Spec. Cap.		(LPM/m)	Hour / Minute
	Casing Diameter	Casing Material:		0.0	94.6	Color			Soil Description	ons
	Top of Screen (mbgs)	Bottom of Screen	(mbgs)						•	
	Screen Interval (m)									
	.,			2.7	91.8	BROWN		CLAY /	STONES	/ PACKED

Well Record #							
3709290	Lot 032 Conc 01	ERNESTOWN	TOWNSHIP / LENNO	OX & ADDINGTON	Flowing		
Date 6/8/2001 DD/MM/YYYY	Elev 98.2 (masl) / Domestic Water Found 35.1 (mbgs)	Easting 365505 Water Supply 63.1 (masl)	Northing 4898196 UTM RC 3 margin Not stated	n of error : 10 - 30 m	SW Pumping W Pump Rat Spec. Cap	L 22.6 e 63.6	(mbgs) 91.8 (masl) (mbgs) 75.6 (masl) (LPM) 2 / (LPM/m) Hour / Minute
	Casing Diameter 6 inch Top of Screen Screen Interval (mbgs)	Casing Material: STEE Bottom of Screen	L (mbgs)	Depth (m) Elev (mas 0.0 98.2	() Color		Soil Descriptions
				0.3 97.9	0.051/	TOPSOIL /	<i>!</i>
2740004	Let 004 Cana 04	EDNESTOWA	I TOWNSHID / I ENN	37.2 61.0	GREY	LIMESTONE /	
3710091 Date 9/19/2005	Lot 001 Conc 01 Elev 99.6 (masl)	ERNESTOWN Easting 366282	Northing 4897521		SW Pumping W	L 4.5	(mbgs) 95.1 (masl) (mbgs) 95.0 (masl)
DD/MM/YYYY	/ Domestic Water Found 5.7 (mbgs)	Water Supply 93.9 (masl)	UTM RC 4 margin	n of error : 30 m - 100 m	Pump Rat Spec. Cap	e 22.7	(LPM) 1 / 0 (LPM/m) Hour / Minute
	Casing Diameter 91 cm Top of Screen (mbgs) Screen Interval (m)	Casing Material: CONC Bottom of Screen	CRETE (mbgs)	Depth (m) Elev (mas 0.0 99.6	l) Color		Soil Descriptions
				0.2 99.4 1.8 97.8 6.0 93.6	BROWN BROWN GREY	TOPSOIL / CLAY / LIMESTONE /	/ PACKED / HARD /
7107623	Lot 035 Conc 01	ERNESTOWN	TOWNSHIP / LENNO	OX & ADDINGTON	Flowing		
Date 5/15/2008 DD/MM/YYYY	Elev 97.6 (masl) / Water Found (mbgs)	Easting 366989 Abandoned-Other (masl)	Northing 4897591 UTM RC 3 margin	n of error : 10 - 30 m	SW Pumping W Pump Rat Spec. Cap	L e	(mbgs) (masl) (mbgs) (masl) (LPM) / (LPM/m) Hour / Minute
	Casing Diameter Top of Screen (mbgs) Screen Interval (m)	Casing Material: Bottom of Screen	(mbgs)	Depth (m) Elev (mas 0.0 97.6	() Color		Soil Descriptions
						1	1
7125035 Date 6/30/2009 DD//MM/YYYY	Lot 035 Conc 01 Elev 97.6 (masl) / (mbgs) Casing Diameter Top of Screen (mbgs)	Easting 366989 Abandoned-Other	NOTOWNSHIP / LENNO Northing 4897591 UTM RC 3 margin Untested	DX & ADDINGTON n of error : 10 - 30 m Depth (m) Elev (mas 0.0 97.6	Flowing SW Pumping W Pump Rat Spec. Cap I)	L L e	(mbgs) (masl) (mbgs) (masl) (LPM) / (LPM/m) Hour / Minute Soil Descriptions
	Screen Interval (m)					/	<i>I</i> <i>I</i>
7138720 Date 1/20/2010 DD/MM/YYYY	Lot 035 Conc 01 Elev 97.6 (masl) / / (mbgs) Casing Diameter Top of Screen (mbgs)	Easting 366989 Abandoned-Other	N TOWNSHIP / LENNO Northing 4897591 UTM RC 4 margin Untested (mbgs)	DX & ADDINGTON n of error : 30 m - 100 m Depth (m) Elev (mas 0.0 97.6	Flowing SW Pumping W Pump Rat Spec. Cap I)	L L e	(mbgs) (masl) (mbgs) (masl) (LPM) / (LPM/m) Hour / Minute Soil Descriptions
21-Jun-21	Screen Interval (m)					,	I

Top	Well Record #								
Pubmay Pubm	7150983	Lot 003 Conc 01	ERNESTOWN TOWNSHI	P / LENNOX & ADDIN	GTON	-			
Color Soil Descriptions Screen Interval (mg) Screen Interval		/ Domestic	Water Supply UTM RC	4 margin of error : 30 m		Pumping WL Pump Rate	6.2 54.6	(mbgs) (LPM)	73.8 (masl) 1 /
1.5 78.5 8ROWN CLAY		3	• • • • • • • • • • • • • • • • • • • •			Color		Soil Descrip	otions
		Screen Interval (m)							
107 69.3 BLUE LIMESTONE				1.5	78.5	BROWN	CLAY /		1
14.2 20.4 59.6 GREN LIMESTONE				2.4	77.5	GREY	SHALE /		1
1/4/2012 Casing Diameter				10.7	69.3	BLUE LI	MESTONE /		1
				14.3	65.7	BLACK LI	MESTONE /		1
1/4/2012				20.4	59.6	GREEN LI	MESTONE /		1
1/4/2012 Elov 88.0 (mas) Easting 365541 Northing 4898643 margin of error : 30 m - 100 m Pumping WL 5.9 (mbgs) 82.1 (mas) Mare Found 7.6 (mbgs) 80.4 (mas) UTM RC 4898643 margin of error : 30 m - 100 m Pumping WL 5.9 (mbgs) 82.1 (mas) Pumping WL 5.9 (mbgs) 82.1 (mas) Pumping WL 5.9 (mbgs) 82.1 (mas) Pumping WL 5.8 (mbgs) Pumping WL 5.9 (mbgs) 82.1 (mas) Pumping WL 5.9 (mbgs) 82.1 (mas) Pumping WL 5.9 (mbgs) 82.1 (mas) Pumping WL Mare Found Pumping WL Mare Found Mar				24.4	55.6	BLUE LI	MESTONE /		1
1/4/2012 Elov 88.0 (mas) Easting 365541 Northing 4898643 margin of error : 30 m - 100 m Pumping WL 5.9 (mbgs) 82.1 (mas) Mare Found 7.6 (mbgs) 80.4 (mas) UTM RC 4898643 margin of error : 30 m - 100 m Pumping WL 5.9 (mbgs) 82.1 (mas) Pumping WL 5.9 (mbgs) 82.1 (mas) Pumping WL 5.9 (mbgs) 82.1 (mas) Pumping WL 5.8 (mbgs) Pumping WL 5.9 (mbgs) 82.1 (mas) Pumping WL 5.9 (mbgs) 82.1 (mas) Pumping WL 5.9 (mbgs) 82.1 (mas) Pumping WL Mare Found Pumping WL Mare Found Mar	7175432	Lot 031 Conc 01	FRNESTOWN TOWNSHI	P / I FNNOX & ADDIN	GTON	Flowing? I	N		
14/2012 Elev 38.0 (mas) Easting 36554 Northing 4898643 Morthing 4898644 Morthing 4898646 M						-		(mbgs)	84.0 (masl)
DDMM/YYYY Water Found 7.6 mbgs) 80.4 mass 0.0 massed Depth (m) Elev (mass) Color Spec. Cap. 28.41 (LPM) 1 / Spec. Cap. 28.41 (LPM) 2 / Spec. Cap. 28.41 (LPM)		• •	-			Pumping WL	5.9		82.1 (masl)
Casing Diameter 6 Inch Casing Material: STEEL Depth (m) Elev (masl) O.0 88.0 Color Soil Descriptions	DD/MM/YYYY			4 margin of error : 30 m	- 100 m		54.6	(LPM)	1 /
Casing blainter File File		Water Found 7.6 (mbgs)	80.4 (masl) Untested			Spec. Cap.	28.41	(LPM/m)	Hour / Minute
Top of Screen (mbgs) Bottom of Screen (mbgs) Screen (m		Casing Diameter 6 inch	Casing Material: STEEL	. , ,	` ,				
Screen Interval Image: Clay		Top of Screen (mbgs)	Bottom of Screen (mbgs)	0.0	88.0	Color		Soil Descrip	otions
17188527			Bottom of Screen (mbgs)						
1/13/2014 Top of Screen Interval		Screen Interval (m)							
17.1 17.0				0.3	87.7	BROWN	CLAY /		1
Table Tabl				9.8	78.3	BLUE LI	MESTONE /		1
Table Conc				17.1	71.0	GREEN LI	MESTONE /		1
A/5/2012				30.5	57.6	BLACK LI	MESTONE /		1
A/5/2012	7188527	Lot Conc	FRNESTOWN TOWNSHI	P / I FNNOY & ADDIN	GTON	Flowing?			
## 4/5/2012 DD/MM/YYYY	7 100327	Lot Colic	ERNESTOWN TOWNSHI	I - LEININGA & ADDIN	GION	-		(mbas)	(masl)
DD/MM/YYYY Water Found	Date 4/5/2012	Elev 103.0 (masl)	Easting 366436 Northing	4898311					, ,
Water Found	DD/MM/YYYY	1	UTM RC	4 margin of error : 30 m	- 100 m				1
Casing Diameter Casing Material: Depth (m) Elev (masl) O.0 103.0 Color Soil Descriptions		Water Found (mbgs)	(masl)			•			Hour / Minute
Top of Screen (mbgs) Bottom of Screen (mbgs) Bottom of Screen (mbgs) Bottom of Screen (mbgs) Bottom of Screen (mbgs) Color Soil Descriptions		Casing Diameter	Casing Material:	Depth (m)	Elev (masl)	oposi oup.		(=:,	
Screen Interval (m)		-	•	0.0	103.0	Color		Soil Descrip	otions
Casing Diameter 2 inch Casing Material: PLASTIC Depth (m) Elev (masl) Screen Interval 1.5 (m) Casing Material: PLASTIC Depth (m) Elev (masl) Screen Interval 1.5 (m) Casing Material: PLASTIC Depth (m) Elev (masl) Screen Interval 1.5 (m) Casing Material: PLASTIC Depth (m) Elev (masl)		Top of Screen (mbgs)	Bottom of Screen (mbgs)						
Lot 034 Conc 01 ERNESTOWN TOWNSHIP LENNOX & ADDINGTON SWL (mbgs) (masl)		Screen Interval (m)							
11/13/2014 Elev 98.1 (masl) Easting 366340 Northing 4897412 Pumping WL (mbgs) (masl)							1		1
11/13/2014 Elev 98.1 (masl) Easting 366340 Northing 4897412 Pumping WL (mbgs) (masl)	7237649	Lot 034 Conc 01	EDNESTOWN TOWNSHI		GTON	Flowing?			
11/13/2014 Elev 98.1 (masl) Easting 366340 Northing 4897412 Pumping WL (mbgs) (masl)	1231040	LOT 034 COILC 01	ENINESTOWN TOWNSHI	I LEMMON & ADDIM	GION	-		(mbas)	(masl)
DD/MM/YYYY / Monitoring and Te Test Hole UTM RC 4 margin of error : 30 m - 100 m Pump Rate (LPM) / Water Found (mbgs) (masl) Spec. Cap. (LPM/m) Hour / Minute Casing Diameter 2 inch Casing Material: PLASTIC Depth (m) Elev (masl) Top of Screen 2.3 (mbgs) Bottom of Screen 3.8 (mbgs) Screen Interval 1.5 (m)	Date 11/13/2014	Elev 98.1 (masl)	Easting 366340 Northing	4897412					, ,
Water Found (mbgs) (masl) Casing Diameter 2 inch Casing Material: PLASTIC Depth (m) Elev (masl) Top of Screen 2.3 (mbgs) Bottom of Screen 3.8 (mbgs) Screen Interval 1.5 (m)	DD/MM/YYYY	/ Monitoring and T	e Test Hole UTM RC	4 margin of error : 30 m	- 100 m				/
Casing Diameter 2 inch Casing Material: PLASTIC Depth (m) Elev (masl) Top of Screen 2.3 (mbgs) Bottom of Screen 3.8 (mbgs) Screen Interval 1.5 (m)		Water Found (mbgs)	(masl)			•		. ,	, Hour / Minute
Top of Screen 2.3 (mbgs) Bottom of Screen 3.8 (mbgs) Screen Interval 1.5 (m)		Casing Diameter 2 inch	Casing Material: PLASTIC	Depth (m)	Elev (masl)	орес. оар.		(E. 111/11)	riour, miliate
Screen Interval 1.5 (m)		• · · · · · · · · · · · · · · · · · · ·	3	0.0	98.1	Color		Soil Descrip	otions
		Top of Screen 2.3 (mbgs)	Bottom of Screen 3.8 (mbgs)						
3.8 94.3 BROWN CLAY / FILL /		Screen Interval 1.5 (m)							
5.0 54.0 EATT THE				3.8	94.3	BROWN	CLAY /	FILL	1
				5.0	5-1.5	200111	OLA! /		•

Well Record #		
7251560	Lot 030 Conc 01 ERNESTOWN TOWNSHIP / LENNOX & ADDINGTON Flowing	
Date 7/23/2015 DD/MM/YYYY	Elev 84.2 (masl) Easting 364993 Northing 4897325 Pumping W / Not Used Abandoned-Other UTM RC 4 margin of error : 30 m - 100 m Pump Ra Water Found (mbgs) (masl) Spec. Ca	/L (mbgs) (masl) te (LPM) /
	Casing Diameter 6 inch Casing Material: STEEL Depth (m) Elev (masl) Top of Screen (mbgs) Bottom of Screen (mbgs)	Soil Descriptions
	Screen Interval (m) 14.3 69.9	1
7335821 Date DD/MM/YYYY	Lot 032 Conc 01 ERNESTOWN TOWNSHIP LENNOX & ADDINGTON Flowing SW Elev (masl) Easting 365592 Northing 4897493 Pumping W / UTM RC 4 margin of error : 30 m - 100 m Pump Ra Water Found (mbgs) (masl) Spec Ca	/L (mbgs) (masl) /L (mbgs) (masl) te (LPM) /
	Casing Diameter 6 Inch Casing Material: STEEL Depth (m) Elev (masl) Top of Screen (mbgs) Bottom of Screen (mbgs) Screen Interval (m)	p. (LPM/m) Hour / Minute Soil Descriptions
		1

APPENDIX

D GROUNDWATER LABORATORY DATA



Table 2 Ground Water Analytical Results

Parameter			BH21-03	BH21-09	BH21-11
Date of Collection		Provincial -	Jun 15, 2021	Jun 15, 2021	Jun 15, 2021
Date Reported	Units	Water Quality	Jun 25, 2021	Jun 25, 2021	Jun 25, 2021
Analytical Report Reference No.		Objectives	21P761978	21P761978	21P761978
Electrical Conductivity	μS/cm		936	779	651
рН	pH Units	6.5-8.5	7.33	7.59	7.25
Saturation pH (Calculated)			5.86	6.14	5.59
Langelier Index (Calculated)			1.47	1.45	1.66
Hardness (as CaCO3) (Calculated)	mg/L		4070	1220	5670
Total Dissolved Solids	mg/L		576	434	378
Alkalinity (as CaCO3)	mg/L		265	435	326
Bicarbonate (as CaCO3)	mg/L		265	435	326
Carbonate (as CaCO3)	mg/L		<5	<5	<5
Hydroxide (as CaCO3)	mg/L		<5	<5	<5
Fluoride	mg/L		<0.05	0.83	0.17
Chloride	mg/L		124	6.76	21
Nitrate as N	mg/L		<0.05	<0.05	<0.05
Nitrite as N	mg/L		<0.05	<0.05	<0.05
Bromide	mg/L		<0.05	<0.05	<0.05
Sulphate	mg/L		85.3	40.5	31.1
Ortho Phosphate as P	mg/L		<0.10	<0.10	<0.10
Ammonia as N	mg/L	2.22	0.09	0.24	<0.02
Ammonia-Un-ionized (Calculated)	mg/L	0.02	0.00109	0.00534	<0.000002
Total Phosphorus	mg/L	•	40.3	0.61	1.52
Total Organic Carbon	mg/L		40.4	30.7	37.4
True Colour	TCU		<5	<5	<5
Turbidity	NTU		7870	329	30500
Total Calcium	mg/L		936	400	2190
Total Magnesium Total Potassium	mg/L		422	53.1	49
Total Sodium	mg/L		167	17.4	10.3
Aluminum-dissolved	mg/L	*	73.4 <0.004	67.7 0.005	9.9 <0.004
Total Aluminum	mg/L mg/L		778	34.5	20.5
Total Antimony	mg/L	0.020	<0.001	0.001	<0.001
Total Arsenic	mg/L	0.020	0.069	0.005	0.009
Total Barium	mg/L	0.1	7.9	0.396	0.231
Total Beryllium	mg/L	*	0.0258	0.0013	0.001
Total Boron	mg/L	0.2	0.236	1.66	0.229
Total Cadmium	mg/L	0.0002	0.0023	0.0003	0.0001
Total Chromium	mg/L		1.14	0.047	0.039
Total Cobalt	mg/L	0.0009	0.354	0.0123	0.013
Total Copper	mg/L	0.005	0.8	0.039	0.028
Total Iron	mg/L	0.3	920	34.9	29.1
Total Lead	mg/L	*	0.21	0.082	0.058
Total Manganese	mg/L		12.6	0.69	1.33
Dissolved Mercury	mg/L	0.0002	<0.0001	<0.0001	<0.0001
Total Mercury	mg/L		<0.0001	<0.0001	<0.0001
Total Molybdenum	mg/L	0.040	0.005	0.005	0.004
Total Nickel	mg/L	0.025	0.862	0.041	0.041
Total Selenium	mg/L	0.1	0.111	<0.002	<0.002
Total Silver	mg/L	0.0001	0.0019	0.0023	<0.0001
Total Strontium	mg/L		2.66	4.06	5.92
Total Thallium	mg/L	0.0003	0.0087	0.0014	0.0021
Total Tin	mg/L		0.008	0.004	<0.002
Total Titanium	mg/L		50.9	1.11	0.136
Total Tungsten	mg/L	0.030	<0.010	0.011	<0.010
Total Uranium	mg/L	0.005	0.019	0.002	0.004
Total Vanadium	mg/L	0.006	1.32	0.043	0.036
Total Zinc	mg/L	0.030	2.17	0.157	0.045
Total Zirconium Notes:	mg/L	0.004	0.088	<0.004	0.007

Notes:

Bold: Parameter exceeds the PWQOs.

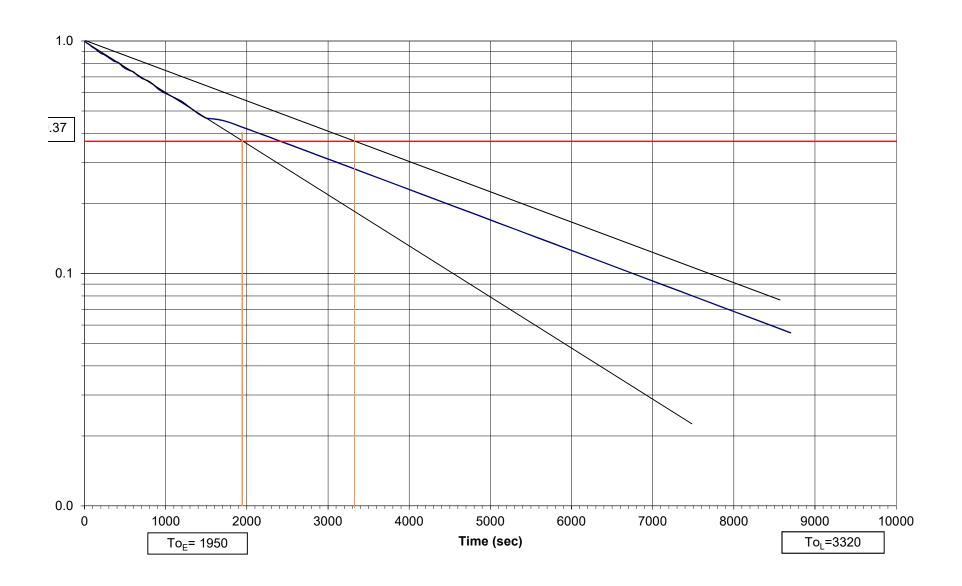
APPENDIX

E HYDRAULIC CONDUCTIVITY TESTING

Project No.:	211-01353-00)	H =	Static Water Level	mbg
Project Name:	Loyalist Seco	ndary Plan	Ho =	Head at time = 0	mbg
Date:	15-Jun-21		h =	Water Level at time t	mbg
Conducted by:	LG/DAY		To _E =	1950	sec
Well Number:	BH21-03		To _L =	3320	sec
Well Depth:	5.00	mbgs	Screen Length (L) =	152.4	cm
Top of Pipe:	0.61	mag	Hole Radius (R) =	15.2	cm
Well Diameter:	51	mm	Well Radius (r) =	2.55	cm (measured)
Well Elevation:	93.50	masl	_		_
Static Water Level:	2.31	mbtop	$K_E = r^2 \ln(L/R)/(2LTo) =$	2.52E-05	cm/s
Ground Elevation:	92.90	masl	$K_L = r^2 ln(L/R)/(2LTo) =$	1.48E-05	cm/s

	Water Level	Water Level Elevation
Time t (sec)	(mbtop)	(masl)
0	3.75	89.75
30	3.72	89.78
60	3.7	89.80
90	3.67	89.83
120	3.65	89.85
150	3.625	89.88
180	3.6	89.90
210	3.58	89.92
240	3.57	89.93
270	3.55	89.95
330	3.51	89.99
360	3.49	90.01
420	3.47	90.03
480	3.42	90.08
540	3.39	90.11
600	3.37	90.13
660	3.33	90.17
720	3.3	90.20
780	3.28	90.22
840	3.25	90.25
900	3.21	90.29
960	3.18	90.32
1020	3.16	90.34
1080	3.14	90.36
1140	3.12	90.38
1200	3.1	90.40
1500	2.98	90.52
1800	2.95	90.55
8700	2.39	91.11

Time t (sec)	H-h	Н-Но	(H-h)/(H-Ho)
0	1.440	1.440	1.000
30	1.410	1.440	0.979
60	1.390	1.440	0.965
90	1.360	1.440	0.944
120	1.340	1.440	0.931
150	1.315	1.440	0.913
180	1.290	1.440	0.896
210	1.270	1.440	0.882
240	1.260	1.440	0.875
270	1.240	1.440	0.861
330	1.200	1.440	0.833
360	1.180	1.440	0.819
420	1.160	1.440	0.806
480	1.110	1.440	0.771
540	1.080	1.440	0.750
600	1.060	1.440	0.736
660	1.020	1.440	0.708
720	0.990	1.440	0.688
780	0.970	1.440	0.674
840	0.940	1.440	0.653
900	0.900	1.440	0.625
960	0.870	1.440	0.604
1020	0.850	1.440	0.590
1080	0.830	1.440	0.576
1140	0.810	1.440	0.563
1200	0.790	1.440	0.549
1500	0.670	1.440	0.465
1800	0.640	1.440	0.444
8700	0.080	1.440	0.056



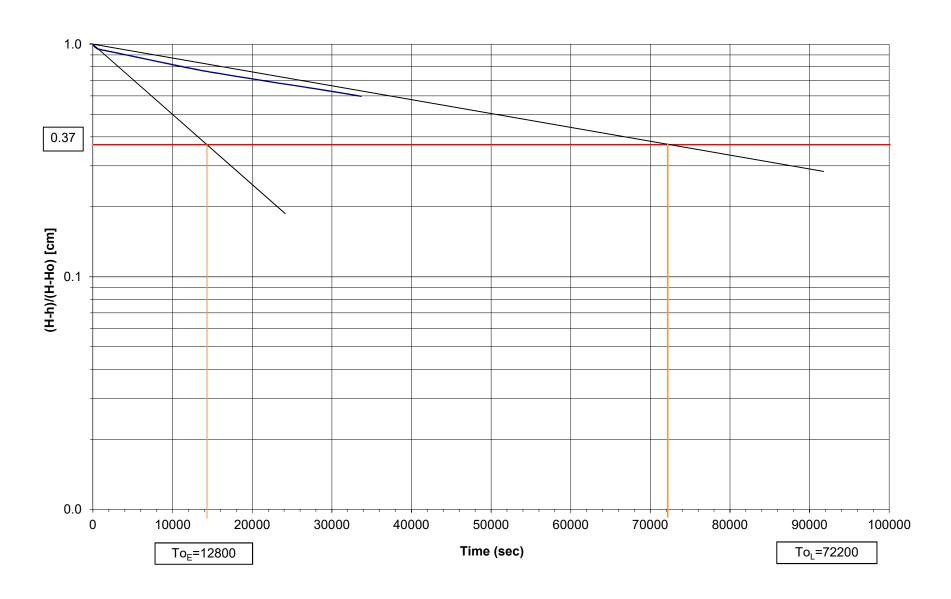
Project No.:	211-01353-00)	H = 3	Static Water Level	mbg
Project Name:	Loyalist Seco	ndary Plan	Ho =	Head at time = 0	mbg
Date:	15-Jun-21		h = '	Water Level at time t	mbg
Conducted by:	LG/DAY		To _E =	12800	sec
Well Number:	BH21-09		To _L =	72,200	sec
Well Depth:	6.34	mbgs	Screen Length (L) =	152.4	cm
Top of Pipe:	1.02	mag	Hole Radius (R) =	15.2	cm
Well Diameter:	51	mm	Well Radius (r) =	2.55	cm (measured)
Well Elevation:	91.85	masl	_		_
Static Water Level:	2.45	mbtop	$K_E = r^2 \ln(L/R)/(2LTo) =$	3.84E-06	cm/s
Ground Elevation:	90.74	masl	$K_L = r^2 \ln(L/R)/(2LTo) =$	6.81E-07	cm/s

Time t (cos)	Water Level	Water Level Elevation
Time t (sec)	(mbtop)	(masl)
0	6.63	85.25
35	6.6	85.25
60	6.57	85.28
90	6.545	85.31
120	6.53	85.32
150	6.52	85.33
180	6.51	85.34
210	6.495	85.36
240	6.49	85.36
270	6.48	85.37
300	6.47	85.38
360	6.46	85.39
420	6.445	85.41
480	6.43	85.42
540	6.42	85.43
600	6.415	85.44
660	6.41	85.44
720	6.405	85.45
780	6.4	85.45
840	6.395	85.46
900	6.39	85.46
960	6.385	85.47
1020	6.38	85.47
1080	6.375	85.48
1140	6.37	85.48
1200	6.365	85.49

Time t (sec)	H-h	H-Ho	(H-h)/(H-Ho)
0	4.180	4.150	1.007
35	4.150	4.150	1.000
60	4.120	4.150	0.993
90	4.095	4.150	0.987
120	4.080	4.150	0.983
150	4.070	4.150	0.981
180	4.060	4.150	0.978
210	4.045	4.150	0.975
240	4.040	4.150	0.973
270	4.030	4.150	0.971
300	4.020	4.150	0.969
360	4.010	4.150	0.966
420	3.995	4.150	0.963
480	3.980	4.150	0.959
540	3.970	4.150	0.957
600	3.965	4.150	0.955
660	3.960	4.150	0.954
720	3.955	4.150	0.953
780	3.950	4.150	0.952
840	3.945	4.150	0.951
900	3.940	4.150	0.949
960	3.935	4.150	0.948
1020	3.930	4.150	0.947
1080	3.925	4.150	0.946
1140	3.920	4.150	0.945
1200	3.915	4.150	0.943

	Ī	\\/_t==\
Time t (sec)	Water Level (mbtop)	Water Level Elevation (masl)
1500	6.355	85.50
1800	6.335	85.52
12440	5.71	86.14
16022	5.55	86.30
19604	5.41	86.44
23186	5.28	86.57
26769	5.16	86.69
30369	5.04	86.81
33675	4.93	86.92
000.0		00.02

T	ı	1	
Time t (sec)	H-h	H-Ho	(H-h)/(H-Ho)
1500	3.905	4.150	0.941
1800	3.885	4.150	0.936
12440	3.260	4.150	0.786
16022	3.100	4.150	0.747
19604	2.960	4.150	0.713
23186	2.830	4.150	0.682
26769	2.710	4.150	0.653
30369	2.590	4.150	0.624
33675	2.480	4.150	0.598



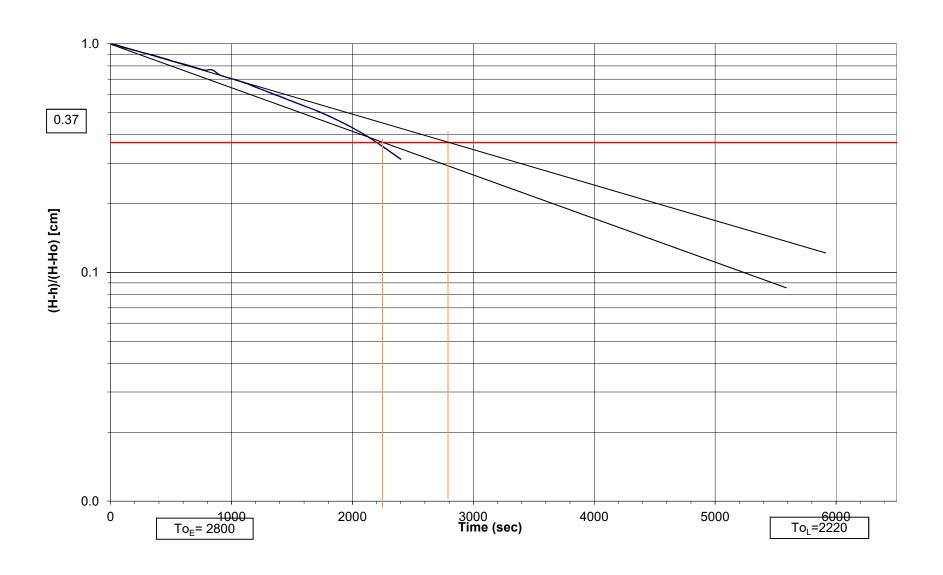
Hvorslev Testing: MW20-4

Project No.:	211-01353-00)	H =	Static Water Level	mbg
Project Name:	Loyalist Seco	ndary Plan	Ho =	Head at time = 0	mbg
Date:	15-Jun-21		h =	Water Level at time t	mbg
Conducted by:	LG/DAY		To _E =	2800	sec
Well Number:	MW20-4		To _L =	2220	sec
Well Depth:	2.64	mbgs	Screen Length (L) =	152.4	cm
Top of Pipe:	0.89	mag	Hole Radius (R) =	10.414	cm
Well Diameter:	51	mm	Well Radius (r) =	2.55	cm (measured)
Well Elevation:	127.54	masl			_
Static Water Level:	2.08	mbtop	$K_E = r^2 ln(L/R)/(2LTo) =$	2.04E-05	cm/s
Ground Elevation:	126.50	masl	$K_L = r^2 \ln(L/R)/(2LTo) =$	2.58E-05	cm/s

T: (/)	Water Level	Water Level Elevation	T (/)	
Time t (sec)	(mbtop)	(masl)	Time t (sec)	
0	4.7	122.84	0	
25	4.68	122.86	25	
60	4.66	122.88	60	
90	4.62	122.92	90	
120	4.595	122.94	120	
150	4.575	122.96	150	
180	4.545	122.99	180	
240	4.5	123.04	240	
270	4.47	123.07	270	
300	4.455	123.08	300	
360	4.405	123.13	360	
420	4.36	123.18	420	
480	4.31	123.23	480	
540	4.26	123.28	540	
600	4.22	123.32	600	
660	4.175	123.36	660	
720	4.13	123.41	720	
780	4.09	123.45	780	
840	4.095	123.44	840	
900	4	123.54	900	
960	3.95	123.59	960	
1020	3.91	123.63	1020	
1080	3.868	123.67	1080	
1140	3.825	123.71	1140	
1200	3.773	123.76	1200	
1500	3.55	123.99	1500	
1800	3.35	124.19	1800	
2100	3.13	124.41	2100	
2400	2.9	124.64	2400	
	-			

Time t (sec)	H-h	Н-Но	(H-h)/(H-Ho)
0	2.620	2.620	1.000
25	2.600	2.620	0.992
60	2.580	2.620	0.985
90	2.540	2.620	0.969
120	2.515	2.620	0.960
150	2.495	2.620	0.952
180	2.465	2.620	0.941
240	2.420	2.620	0.924
270	2.390	2.620	0.912
300	2.375	2.620	0.906
360	2.325	2.620	0.887
420	2.280	2.620	0.870
480	2.230	2.620	0.851
540	2.180	2.620	0.832
600	2.140	2.620	0.817
660	2.095	2.620	0.800
720	2.050	2.620	0.782
780	2.010	2.620	0.767
840	2.015	2.620	0.769
900	1.920	2.620	0.733
960	1.870	2.620	0.714
1020	1.830	2.620	0.698
1080	1.788	2.620	0.682
1140	1.745	2.620	0.666
1200	1.693	2.620	0.646
1500	1.470	2.620	0.561
1800	1.270	2.620	0.485
2100	1.050	2.620	0.401
2400	0.820	2.620	0.313

Hvorslev Testing: MW20-4



APPENDIX

F GROUND
PENETRATING
RADAR STUDY



TECHNICAL NOTE

TO:

FROM: Milan Situm

SUBJECT: Bedrock Mapping via geophysical methods

PROJECT No.: 211-01353-00

DATE: May 14,2021

1 INTRODUCTION

WSP Canada Inc. (WSP) was retained to provide geophysical services for the developing land beginning at the corner of Taylor Kidd Blvd and County Road 6, west of Amherstview (see Figure 1). The purpose of this investigation was to use geophysics to create a contour map which predicts the depth of the underlying bedrock at each of the borehole locations. A secondary study was to look for evidence of karst as this could heavily reduce the cost of development. The geophysical method used was Ground Penetrating Radar (GPR).

This technical note will outline the background of the geophysical method, data collection procedures and walk through the results of the data set.

2 FIELD STUDY SUMMARY

Ground Penetrating Radar (GPR) is a geophysical method that uses short duration electromagnetic pulses focused into the ground to produce images of the subsurface by measuring the reflected pulses. The properties of the reflected waves give information about the objects lying within the subsurface as well as the soils themselves. There are two key pieces of information that are measured, the amplitude of the wave and the arrival time, which corresponds to the difference in permittivity between two materials and depth, respectively. More details on the background behind the GPR can be found in Section 2.1.

The survey began on April 5th and was completed on April 6th. Figure 1 shows the boundary area (blue) of interest that is looking to be developed as well as the borehole locations overlaid on a Google Earth image. The operator gathered a total of 56 data files. The device that was used to complete the survey was the Mala GX (Ground Explorer) with the 450MHz antenna, which is linked directly to the Global Positioning System (GPS). A fact sheet has been attached in Appendix A. The device was set in time-mode which simply means the device is always recording, regardless if the operator is moving or not. A conservative estimate of the total amount of linear profiles covered was 18.0 kilometers.

2 International Blvd., Suite 201 Toronto, Ontario M9W 1A2 Canada

T: +1-416-798-0518 F: +1-416-798-0518 www.wsp.com





Figure 1: Survey Area with borehole locations marked

2.1 GPR BACKGROUND

The principal of ground-penetrating radar (GPR) is to emit an electromagnetic pulse into the ground which propagates into the earth and reflects on a variety of materials where there is a contrast in dielectric permittivity. Examples of a dielectric contrast include; earth / concrete (electrical caisson or concrete pads), earth / water (bathymetry surveys), earth / air (void mapping) or earth / metal (tank or watermain locating). When the radiation interacts with the boundary it can either reflect and return to the surface or refract and continue further into the subsurface. The properties of the returning wave, measured by the receiver, contains information about the material under the subsurface. The two measurables that provide useful information are the corresponding arrival time and amplitude. The amplitude of the wave gives information about the electrical property of the boundary between the two materials, a large amplitude implies a large difference in permittivity's between two materials, hence the



speed of the EM wave through the material can be determined. The corresponding arrival time is associated with the depth of the target. Using the speed of the wave, measured by the amplitude, the depth of the target can be calculated from the measured time it takes for a wave to return.

GPR has a variety of applications, including the following:

- Mapping buried infrastructure (utilities, foundations, etc.)
- Mapping sub-surface geology
- Studying bedrock, soil and groundwater
- Mapping archeology features
- Mapping unexploded ordnance and detecting tunnels for the military

The effective depth of GPR is dependent on the electric conductivity of the ground as well as the frequency of the transmitter. A subsurface with higher electric conductivity will attenuate the wave, essentially it decreases the penetration depth of the wave. The frequency and depth have an inversely proportional relationship: as the frequency increases the effective depth decreases. However, there is a trade-off; higher frequency waves offer higher resolution to images; therefore, you can use lower frequency waves to produce images, but at the expense of their clarity. It is best to use the highest frequency possible to ensure that the operator can make the most accurate diagnosis of the data.

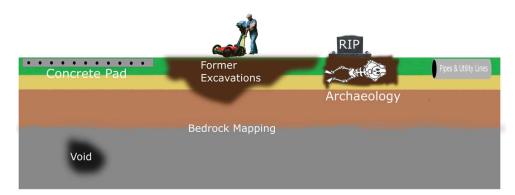


Figure 2: GPR Applications

3 RESULTS

The data was processed using the RadExplorer Software, which involves the operator interpreting the bedrock line along each profile. Each "pick" file is then exported and was used to create a contour map of the underlying bedrock, as shown in Figure 3. Each colour is associated to a 0.25m depth interval of the underlying bedrock. This contour map can also be found in Appendix B and shows scale for colour to depth. Table 1 summarizes the predicted rock depth interval at each of the borehole locations. The contour map suggests that the majority of the bedrock is within 1-meter from surface. However, interpreting bedrock depth can be difficult as the moisture content of the overburden changes throughout the site, which directly affects the speed of the EM-waves and therefore the interpreted depth. For example, in the northeast end of the property the soils appeared fairly dry which suggests a dielectric of



roughly 6-7. On the west side, near BH21-13 and BH21-05, the overburden was very lumpy and contained much higher moisture content. This causes 1) the EM wave to travel much slower and therefore the depth of the bedrock could be overestimated 2) as the conductivity of the ground increases the penetration depth of the EM-waves decreases. In other words, soils with high moisture content cause EM waves to attenuate which can make interpreting bedrock much more difficult. For this site BH21-05, BH21-07 and BH21-13 were in highly saturated zones.

During the interpretation there were a few zones that had interesting features. Figure 4 shows the approximate location of each of the anomalies and Table 2 summarizes location with depth. These anomalies will require some explanation:

Possible Dip #1 + Exposed Fissure in Rock – These anomalies are located within the same general area and may possibly be related to each other. As shown on the contour map, in this area there was a large hill of exposed rock. Observable from surface is a substantial fissure. The depth most likely exceeds one meter. It is unclear if there is an open void extending away from this feature. However, the operator while on site observed a very strong dipping feature that appears roughly 5-meters wide with some evidence of a ground radar image characteristic called 'ringing'. Ringing could be key evidence of karst formation as there may be an open void. This area appeared to be the most promising evidence for karst-like features.

Possible Utility – At the very northeast side of the property the operator noticed a very consistent anomaly that extends from the northeast corner, roughly 45 degrees away from Taylor Kidd Rd that has the appearance of a pipe. The possible utility does not appear to be a live wire as the signal would have most likely been stronger.

Possible Dipping/Evidence of Dipping – Remaining dipping bedrock features and zones did not show a large amount of ringing which reduces the likelihood of karst-like features. However, these are areas where the bedrock could dip below 1.5-meters which appears to be rare for this particular site.

Possible Large Boulders – Located at the central east part of the property it was observed from surface that there was a dipping feature that extended roughly 5-meters from west to east. The GPR data suggests that there is a possibility of large boulders that may have purposefully placed.

Possible Loosened Rock / Forecasted Void – In the northwest corner of the site there was evidence of loosened rock / collective of small voids. It in unclear whether this is naturally occurring or induced by the blasting that would have taken place to create the road.

Possible Buried Metal Area – While on site the operator and ESA team came across dumping of metal. From scanning the area, it appears that there is evidence of buried metal surrounding the area. It in unclear how many objects there were or how deep, metal almost always attenuates EM-waves due to their higher conductivity value.



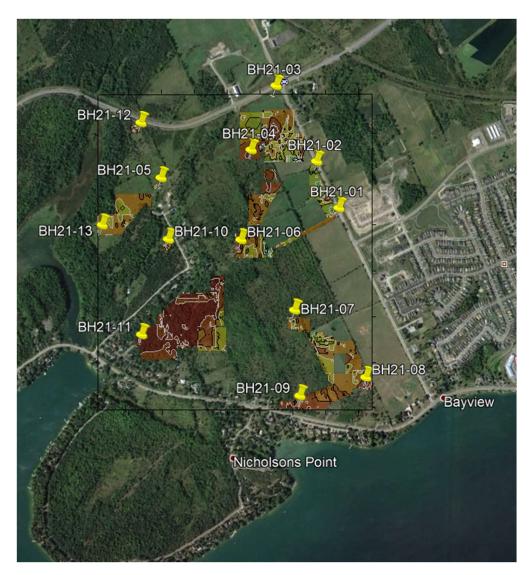


Figure 3: Contour Map overlaid on Google Earth Image

BH21-#	Depth Interval (m)		
01	0.5 - 0.75		
02	0.75 - 1		
03	0.5 - 0.75		
04	0.25 - 0.5		
05	0.5 - 0.75		
06	0 - 0.25		
07	0.5 - 0.75		
08	0 - 0.25		
09	0.25 - 0.5		
10	0.25 - 0.5		
11	0 - 0.25		
12	0.5 - 0.75		
13	0.75 - 1		

Table 1: Summary of approximate rock depth at each borehole location



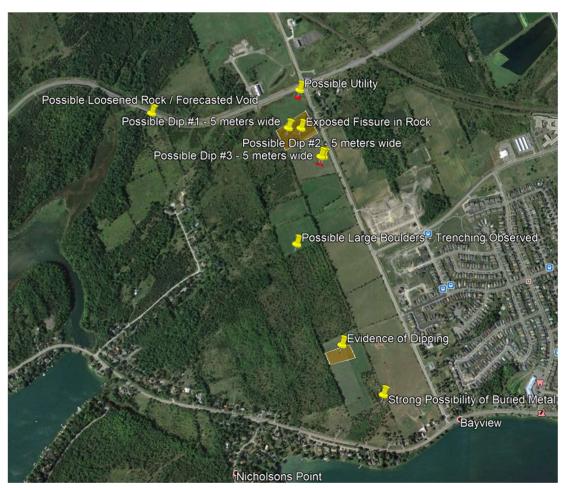


Figure 4: Anomaly Map

Anomaly Name	Easting (m) +/- 1m	Northing (m) +/- 1m	Approximate Depth (m)
Possible Loosened Rock /	365521	4898392	2
Forecasted Void			
Possible Utility	366213	4898519	0.5
Possible Dip #1	366165	4898337	2
Exposed Fissure in Rock	366224	4898338	0
Possible Dip #2	366333	4898208	2.5
Possible Dip #3	366321	4898207	2.5
Possible Large Boulders /	366218	4897795	1.5 - 2
Trenching Observed			
Evidence of Dipping Zone	366372 -	4897277 -	1.5 - 2
	366517	4897367	
Strong Possibility of Buried	366638	4897108	NA
Metal (Area)			

Table 2: Summary of Anomaly locations



4 CONCLUSIONS

The survey took place on April 5th and concluded on April 6th. Figure 1 shows the approximate boundaries of the property with the boreholes marked. The purpose of the survey was to create a contour map of the bedrock as well as investigate any anomalous features with a focus on karst like features. Ground penetrating radar was used to complete this task, a fact sheet has been attached in Appendix A.

Figure 3 and again in Appendix B is the resulting contour map from combining 56 data files. The majority of the bedrock appears to be within the upper 1-meter. However, there were high moisture areas which can cause problems with interpretation and are described in Section 3. Table 1 summarizes the predicted depth interval at each of the borehole locations.

Figure 4 is an anomaly map; a map of interesting features that are were not part of the general pattern/geology. In addition, it is not quite clear exactly what each of the features are related to but there is a strong idea. Each anomaly has been described in detail in Section 3. Table 2 summarizes the location and approximate depth. Some of the features are related to a modest amount of karstic erosion in the form of vertical fissures and others are related to broken rock being moved and regraded in other areas.

> MILAN SITUM PRACTISING MEMBER

Prepared by: Milan Situm, P.Geo.

Milan Situm, P.Geo. Senior Geophysicist



APPENDIX AEQUIPMENT SHEETS

GPR ANTENNAS WITH 4 DIFFERENT FREQUENCIES

MALÅ GX is an integrated GPR solution with four MALÅ GX antenna options: GX80, GX160, GX450 and GX750.

MALÅ GX can be optimized for specific measurements and applications by adding different antennas. For the GX-series of antennas, there are four options to choose from using center–frequencies of 80, 160, 450 or 750MHz. The choice of antenna frequency will be governed by your application and the desired depth penetration and resolution. All new MALÅ GX antennas are app-enabled, and comes with WiFi connection per default. This enables full integration with MALÅ Controller app and MALÅ Vision.



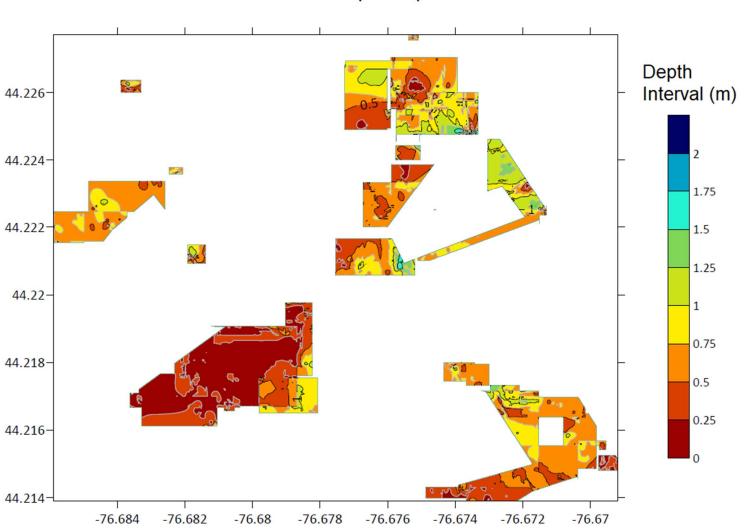
Geological

Geological applications are usually both longer and deeper (lower frequency antennas) surveys and sometimes performed in boreholes. Work includes, Layer detection, Rock fracture analysis, general and more detailed Site investigations, Pre-mining studies, Exploration work, Bathymetry, Earthquake prediction, Landslide investigations, Volume estimations, Ore lineage mapping, Nuclear waste repository studies, Tunnelling work, etc.



APPENDIX B BEDROCK CONTOUR MAP

Amherstview - Loyalist Bedrock Depth Map



FIGURE



