



REPORT

Desktop Groundwater Supply Assessment

Hamlet of Ballantrae, Town of Witchurch-Stouffville, Ontario

Submitted to:

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APPENDIX A

Important Information and Limitations of This Report

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MECP Well Records

1.0 BACKGROUND

WSP Canada Inc. (WSP) was retained by Far Sight Investments Ltd (the "Client") to conduct a desktop preliminary groundwater supply assessment to identify potential groundwater supply options for the proposed development located at 5426, 5452, and 5584 Lakeshore Road, southeast of Ballantrae, within the Town of Witchchurch-Stouffville, Ontario (the "Site"; Figure 1). The proposed development will include 142 single family residential lots (Sabourin Kimble & Associates Ltd., 2021) complete with walking paths and woodlands as shown on Figure 2.

Based on emails from R.V. Anderson dated May 21, 2024 and June 17, 2024, the population of the proposed subdivision will be approximately 468 people, with the wells supplying an estimated peak hour demand rate of 9.25 L/s or 800 m³/day and an estimated maximum day demand of 550 m³/day required for the proposed subdivision. This is to be firm capacity, with water to be supplied by two separate supply wells. One well would operate at a time with the other as a back-up.

The wells would require a Category Three Permit to Take Water (PTTW) from the MECP for operation with PTTW limits for the peak hour demand of 9.25 L/s (555 L/min) and for the maximum day demand of 550 m³/day (550,000 L/day).

This report provides the results of the preliminary groundwater supply assessment and should be read in conjunction with the "Important Information and Limitations of This Report" in Appendix A which forms an integral part of this document. The reader's attention is specifically drawn to this information, as it is essential for the proper use and interpretation of this report. The data, interpretations and recommendations contained in this report pertain to a specific project as described in the report and are not applicable to any other project or site location.

1.1 Scope of Work

The scope of work for the current groundwater supply assessment consisted of:

- Reviewing regional groundwater information, including publicly available drilling and groundwater well records, geological data, topographic mapping, published hydrogeological reports and groundwater taking, and treatment records from nearby municipalities; and
- Preparing a report documenting the findings of the desktop assessment.

We note that this report focuses on the groundwater supply potential of the site and does not include overall hydrogeological and water balance assessment.

2.0 SITE CHARACTERIZATION

2.1 Physiography

Physiographic mapping in the area indicates that the Site lies within the physiographic region of southern Ontario known as the Oak Ridges Moraine (ORM; Chapman and Putnam, 2007). The ORM is a ridge that forms a drainage divide between Lake Ontario and Georgian Bay, extending approximately 160 km from the Niagara escarpment to the Trent River. It is generally sandy, with the areas surrounding Uxbridge being noted to contain thick deposits of lacustrine clay and silt. The overburden in the area of the Site generally consists of eolian deposits of fine to very fine sand and silt (OGS, 2010).

2.2 Topography and Drainage

Based on available topographic mapping of the Site, the ground surface is gently sloping, with elevations ranging from 331 meters above sea level (masl) in the southwest to 334 masl, with topography generally being higher to the north and along the west and east edges of the Site, and lower in the center and to the south of the Site.

The Site is located on the eastern edge of the East Holland River watershed (OMNRF, 2020), and Musselman Lake is located to the southeast of the Site. A drainage ditch with ephemeral flow constructed in the late 1970s to early 1980s (Ages, 2022) flows north to south bisecting the Site adjacent to an unevaluated wetland, considered to be a woodland swamp (Ages, 2022) on the west side of the Site. The ditch flows through another unevaluated wetland, considered to be a marsh (Ages, 2022) within the southern boundary of the Site towards a pond on the south side of Lakeshore Road (Figure 1). Local drainage from the Site flows south towards the East Holland River and regional drainage flows generally to the north towards Lake Simcoe.

2.3 Hydrostratigraphy

The quaternary geology of the area surrounding the Site was described by Golder Associates (2017) based largely on work done by Kassenaar and Wexler (2006) and Gerber and Howard (2000), and is briefly summarized in the following section. The hydrostratigraphy of the area can be separated into the following units:

- Upper Aquitard – Halton Till;
- Upper Aquifer- Oak Ridges Aquifer Complex (ORAC);
- Middle Aquitard- Newmarket Till, channel silts and lacustrine deposits;
- Middle Aquifer- Thorncliffe Aquifer Complex (TAC) and channel aquifer;
- Lower Aquitard- Sunnybrook drift, till and lacustrine deposits;
- Lower Aquifer- Scarborough Aquifer Complex; and
- Older Tills and Bedrock.

Figures 3A to 3C show the inferred regional hydrostratigraphic profiles based on well records in the area.

2.3.1 Upper Aquitard- Halton Till

Recent deposits include glaciolacustrine deposits associated with deposition in glacial lakes, and both recent and older alluvial deposits. The materials can be either aquifers or aquitards, depending on the local composition. Likewise, deposits of surficial glaciolacustrine sand, silt, and clay produce both aquifer and aquitard conditions depending on the composition of the materials encountered. Underlying the surficial recent deposits, the Upper Aquitard consists of Halton Till, that cover a portion of the underlying the ORAC. The Upper Aquitard serves as a confining layer and limits infiltration, protecting the ORAC from sources of contamination at surface. The Upper Aquitard also reduces lateral groundwater discharge from the base of the ORAC and thereby induces downward groundwater movement to deeper hydrostratigraphic units. Based on the inferred geological cross sections presented in Figures 3A to 3C, these units are not present in the vicinity of the Site, however middle and lower aquitards are present as described in Sections 2.3.3 and 2.3.5.

2.3.2 Upper Aquifer- Oak Ridges Aquifer Complex

The ORAC is a regional aquifer system in Ontario that corresponds to the area where the Oak Ridges sediments are deposited and is located at surface in the vicinity of the Site. The ORAC is a significant source of groundwater supply for various uses and provides baseflow to the headwaters of creeks and rivers where the Halton Aquitard is

absent. The ORAC is in some areas separated by silt interlayers, splitting the unit into upper and lower aquifers. The ORAC is reported to have a relatively high hydraulic conductivity of up to 8×10^{-5} m/s.

2.3.3 Middle Aquitard- Newmarket Till, channel silts and lacustrine deposits

The Middle Aquitard consists of the Newmarket Till and low permeability deposits. The results of the historical pumping tests and monitoring (Golder, 2017) indicate little to no fluctuation in the ORAC water levels due to pumping of underlying aquifer units, indicating that the Middle Aquitard provides good protection to aquifers within the underlying hydrostratigraphic units. Thickness of this aquitard is reported range between 30 m to 50 m with an estimated vertical hydraulic conductivity of between 5×10^{-9} m/s and 1×10^{-10} m/s.

2.3.4 Middle Aquifer- Thorncliffe Aquifer Complex and channel aquifer

The Middle Aquifer includes the Thorncliffe Aquifer Complex (TAC) consisting of fine to coarse-grained sediments of the Thorncliffe Formation and channel aquifer sediments. Local sand and gravel deposits within the Thorncliffe Aquifer Complex provide high yield wells. Regionally, the interpreted aquifer thickness of this unit ranges from 30 m – 70 m. Based on the cross sections presented in Figures 3A – 3C, the thickness of the Middle Aquifer in the vicinity of the Site appears to be relatively consistent, ranging from approximately 12 to 20 m based on extrapolation from nearby deep boreholes. The reported hydraulic conductivity of the Middle Aquifer ranges from 3×10^{-4} m/s to 1×10^{-8} m/s. The Middle Aquifer is a frequent target for municipal supply wells, including the Ballantrae supply wells due to its high yield and the protective Middle Aquitard that overlays it. There are few private wells that draw from this unit, likely due to its relative depth.

2.3.5 Lower Aquitard – Sunnybrook drift, till and lacustrine deposits

The Lower Aquitard separates the Middle and Lower Aquifers. This aquitard demonstrates low permeability, provides some resistance to vertical groundwater movement, and protects the underlying aquifer from potential contaminant movement. It is understood to be generally less than 10 to 20 m thick, but thicker within bedrock valleys (Kassenarr & Wexler, 2006), Which is generally consistent with the cross sections shown in Figures 3A and 3C.

2.3.6 Lower Aquifer- Scarborough Aquifer Complex

The Lower Aquifer Scarborough Aquifer Complex (SAC) consists of fine to coarse-grained sediments associated with the Scarborough Formation. Based on extrapolation from nearby deep boreholes and the cross section presented in Figure 3A, the Lower Aquifer does not appear to be present to the west of the Site, and may have limited areal extent, however Figure 3C indicates that it may be present within the Site itself. The Lower Aquifer is estimated to potentially have a thickness of up to 13 m in the vicinity of the Site. Due to its depth and presence of shallower aquifers, the Lower Aquifer is not exploited extensively for private water supplies.

2.3.7 Older Till and Bedrock

The Lower Aquifer is underlain by over-consolidated fine grained material that is not well represented in well drilling logs and has little bearing on water supplies in the area (Golder, 2017). The overburden at the Site is underlain by shale bedrock of the Georgian Bay Formation (OGS, 2007).

2.4 Groundwater Use

2.5 MECP Well Records

A review was conducted of the Ministry of Environment Conservation and Parks (MECP) water well database within 500 m the Site (Figure 4), and the findings are provided in Appendix B. The MECP database indicates 169 well records are located within approximately 500 m of the Site. Of these, 103 are indicated to have been installed for water supply

purposes, with 94 listed as being for domestic supply purposes, 2 as commercial supply, 2 as water supply for stock, and 3 as public water supply. The public supply wells are noted to not be the current municipal supply wells, and have listed diameters of 51 mm and relatively shallow depths between 13.1 mbgs to 21.9 mbgs. There are 15 records listed as test holes and observation wells, 28 well records listed as abandonments, and another 23 records have no purpose listed. The depth of the listed records range from about 0.9 to 145 meters below ground surface (mbgs). Based on the cross sections presented in figures 3A to 3C, it appears the municipal wells and Ballantrae Golf and Country Club wells are the only water supply wells installed in the Middle and Lower Aquifers in the vicinity of the Site, with the remaining supply wells screened in the ORAC.

The Site lies within the Ballantrae/Musselman's Lake water service area (Figure 1), and residential properties in Ballantrae are connected to the municipal drinking water system. As such, the well records listed as supply wells within the Ballantrae water supply service area are likely no longer be in use.

2.6 Permits to Take Water

A search of the MECP PTTW mapping indicates the presence of two Permits – within 2 km of the Site. The first is for the Ballantrae/Musselman's Lake drinking water system, and the second is for the Ballantrae Golf and Country Club.

The Ballantrae/Musselman's Lake supply wells operate under Permit to Take water (PTTW) No. 3573-CDFQHW. The municipal drinking water system is serviced by three supply wells, PW-1 and PW-2, which were commissioned in the late 1990s near the intersection of McCowan Road and Aurora Road, approximately 2.3 km west of the Site. The PW-1 and PW-2 wells are installed at a depth of 111.86 mbgs and 110.95 mbgs respectively PW-3 was installed in 2013 at a well house adjacent to Whitchurch-Stouffville Fire Station 5-2 (TMIG, 2019), approximately 800 m to the northwest of the Site, at a depth of 108.51 mbgs. Under the PTTW, each well has a maximum daily water taking rate of 2,710 m³/day (31.4 L/s). Table 1 below summarizes the municipal supply wells.

Table 1: Ballantrae/Musselman's Lake Municipal Supply Wells

Well ID	Permitted Water Taking Rate (m ³ /d)	Number of Water Taking Days Allowed (days/year)
PW-1	2,710	365
PW-2	2,710	365
PW-3	2,710	365
PW-4	2,710	365

The Ballantrae Golf and Country Club located approximately 600 m north of the Site and has several pumping wells for dewatering and golf course irrigation. The water taking operates under PTTW No. 3220-BD8HGV and consists of 11 wells. Table 2 below provides pumping information for each well.

Table 2: Golf Course Pumping Wells

Well ID	Listed Purpose	Permitted Water Taking Rate (m ³ /d)	Number of Water Taking Days Allowed (days/year)
TW1-03	Golf Course Irrigation	547.2	180
PW-2-98	Golf Course Irrigation	655.2	180
PW5-10	Other - Dewatering	1,310.4	365
TW1-96	Golf Course Irrigation	388.8	180
PW-3-10	Other - Dewatering	1,310.4	365
PW-1-10	Other - Dewatering	1,051.2	365
PW4-10	Other - Dewatering	1,310.4	365
PW-1-03	Golf Course Irrigation	2,174.4	180
PW-1-98	Golf Course Irrigation	720.0	180
PW-2-10	Other - Dewatering	1,051.2	365
TW2-96	Golf Course Irrigation	619.2	180

3.0 DISCUSSION

3.1 Water Quantity

3.1.1 Upper Aquifer

Based on the MECP well records, the wells screened in the ORAC reported static water levels between approximately 2 mbgs and 30 mbgs and pumping rates between 5 L/min and 205 L/min. The ORAC is likely not capable of supporting the water taking rates required to support the planned subdivision.

3.1.2 Middle Aquifer

In the vicinity of the Site, the top of the Middle Aquifer is estimated to range from approximately 69 mbgs to 74 mbgs, with the bottom of the unit ranging from approximately 99 mbgs to 104 mbgs, depending on the topography of the Site. Due to the depth of the Middle Aquifer, there are few private wells that draw from it, and limited well records are available. The pumping rates listed on the well records within the vicinity of the Site completed within the Middle Aquifer range from 25 L/min (0.4 L/s) to 950 L/min (15.8 L/s). The Ballantrae municipal supply wells are also screened in this unit and are noted to have theoretical transmitting capacities between 50.6 L/s (3,036 L/min) to 82 L/sec (4,920 L/min), with permitted pumping rates of approximately 31.4 L/s (1,884 L/min). The static water levels reported in the municipal wells between January 2019 – July 2023 were reported to range from 10.9 mbgs to 82.3 mbgs (with elevations ranging from 257.8 masl to 321.0 masl; Source: Oak Ridges Moraine Groundwater Program mapping tool).

Based on the available nearby well information, the Middle Aquifer has sufficient yield to provide the 9.25 L/s peak hour demand (800 m³/day) and 550 m³/day maximum day demand required by the planned subdivision.

3.1.3 Lower Aquifer

Based on the cross-sections presented in Figures 3A-3C, the top of the Lower Aquifer ranges from approximately 109 mbgs to 114 mbgs, with the base of the aquifer unit ranging from approximately 114 to 119 mbgs depending on the topography of the Site. There are few well records screened across the Lower Aquifer in the vicinity of the Site. Two golf course wells, TW1-03 and PW-1-03 located approximately 600 m to the northeast of the Site were noted to be screened across the Lower Aquifer.

Permitted water taking rates from the Golf Course wells screened in this unit range from 547.2 m³/day (6.3 L/s) to 2174.4 m³/day (25.1 L/s).

Based on the available nearby well information, the Lower Aquifer also has sufficient yield the 9.25 L/s peak hour demand (800 m³/day) and 550 m³/day maximum day demand required by the planned subdivision.

3.2 Water Quality

3.2.1 Upper Aquifer

Groundwater sampling of the ORAC conducted by International Water Supply (1987) indicated that the Upper Aquifer showed impacts from road salting and septic effluent. The Ontario Provincial Groundwater Monitoring Network (PGMN) has a monitoring well (Well ID W0000071-1, Figure 1) located approximately 2.5 km west of the Site. The monitoring well is screened within the ORAC and is sampled yearly for general chemistry, metals, and major ions. The October 2022 sampling results indicated no exceedances of the Ontario Drinking Water Quality Standards (ODWS) for the analyzed parameters.

The cross-sections presented in Figures 3A – 3C, show that the ORAC is unconfined in the area of the Site and is not protected by the overlying Halton till present in other areas of the ORM, suggesting that it may be more vulnerable to contamination than the deeper aquifer units. Based on the cross sections presented in Figures 3A – 3C the ORAC appears to be separated by a confining layer of ORAC silt into upper and lower aquifers to the west of the Site, and potentially through the Site itself. Several of the records shown on Figure 3C do not show the confining layer, indicating that it may be of limited areal extent and that a hydraulic connection exists between the upper and lower layers.

The noted impacts from septic and road salt in the ORAC indicate an undesirable high vulnerability to surficial contamination and that considerable treatment would be required to ensure safe water supply for the subdivision from this shallower aquifer.

3.2.2 Middle Aquifer

The Middle Aquifer is protected by the overlying Middle Aquitard, and the existing Ballantrae water supply wells take water from this unit. Water quality sampling has indicated the water in this unit meets the ODWS with the exception of minor aesthetic objectives, and would be a suitable source to supply the subdivision.

Water quality in the Middle Aquifer has been demonstrated to meet the Ontario Drinking Water Quality Standards (ODWS), with the exception of iron and manganese concentrations in PW-1 and PW-2 (Stantec, 2010). These exceedances are noted to be aesthetic and not health-related parameters and are common in deep aquifers in York Region (Golder, 2017). An increasing trend in the concentrations of chloride and sodium was also noted at PW-1 and PW-2 (Stantec, 2010). It is noted that both the iron and manganese, as well as the chloride and sodium issues can be readily treated using domestic equipment. PW-3 was shown to meet ODWS for all parameters tested, and

the 2023 Annual Drinking Water System Quality Report for Ballantrae/Musselman's Lake DWS (York Region, 2024) indicated no ODWS exceedances.

3.2.3 Lower Aquifer

As there were few well records screened within the Lower Aquifer the groundwater quality of the Lower Aquifer in the vicinity of the Site is largely unknown.

3.3 Supply Well Location

It is assumed that the supply wells would be installed within the subdivision site itself, with water being pumped from the wells to an adjacent pump-house for disinfection. Consideration should be taken to avoid installing the planned supply wells in a local topographic low to prevent standing water from pooling around the wells, and the wells and pumphouse should be constructed in an easily accessible location for monitoring and maintenance work, potentially within a reserved lot in the subdivision. Test well drilling would be needed on the Site to confirm that suitable conditions are present in the deeper aquifers.

3.4 Potential Impacts

Based on the confined nature of the Middle and Lower Aquifers and the results of the previous pumping tests at the municipal wells described in Golder, 2017, impacts to surface water resources, domestic water supply wells and shallower groundwater resources are not anticipated. A pumping test should be conducted to determine what impacts, if any, the planned water taking has on local groundwater and surface water resources.

Based on the peak hourly demand of 800 m³/day, potential for interference with the closest municipal wells located over 800 m away would likely be minimal (< 1m) and occur only over the brief periods of these peak or maximum day demands. This would need to be confirmed through installation and test pumping with assessment of drawdown in on-site and off-site monitoring wells. These rates would only be needed during brief peak or maximum day demand periods. A detailed assessment of well interference implications resulting from potential small water level declines at existing permitted water users would need to be completed based on a test pumping and monitoring program.

3.5 Conclusions

Based on a desktop review of available well information, either the Middle or Lower Aquifer are expected to be able to support the peak hour demand of 9.25 L/s (800 m³/day) or maximum day demand of 550 m³/day required by the planned subdivision. The required water supply for firm capacity will need two separate supply wells with one well operating at a time with the other as a back-up. An exploratory drilling program will be required at the Site to confirm the capacity of two wells through test drilling and pumping.

Based on the confined nature of the Middle and Lower Aquifers and the results of the previous pumping tests at the municipal wells described in Golder, 2017, impacts to surface water resources and other groundwater users are not anticipated. Based on the peak hourly demands of 9.25 L/s (800 m³/day) and maximum day demand of 550 m³/day, potential for interference with the closest municipal wells located over 800 m away would likely be minimal (< 1m) and occur only over the brief periods of these peak hour or maximum day demands. A pumping test including monitoring of on-Site and off-Site wells is recommended to be conducted to determine what impacts, if any, the planned water taking has on local groundwater and surface water resources and to support a Category Three Permit to Take Water with the MECP for the two wells.

If supply wells are installed in the deeper aquifers, they will likely need to be installed at depths on the order of 80 mbgs or greater to target the Middle Aquifer or 110 mbgs or greater to target the Lower Aquifer, depending on ground surface elevation. Both of these aquifers are likely not under the influence of surface water and are well protected from surficial sources of contamination and have a low vulnerability, which is advantageous from a source water protection perspective. Regardless of the low vulnerability of these aquifers, on the Site itself and within a 100 m radius of the wells, an assessment would need to be completed to ensure that no significant threats to drinking water would be created under the Clean Water Act.

4.0 REFERENCES

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Signature Page

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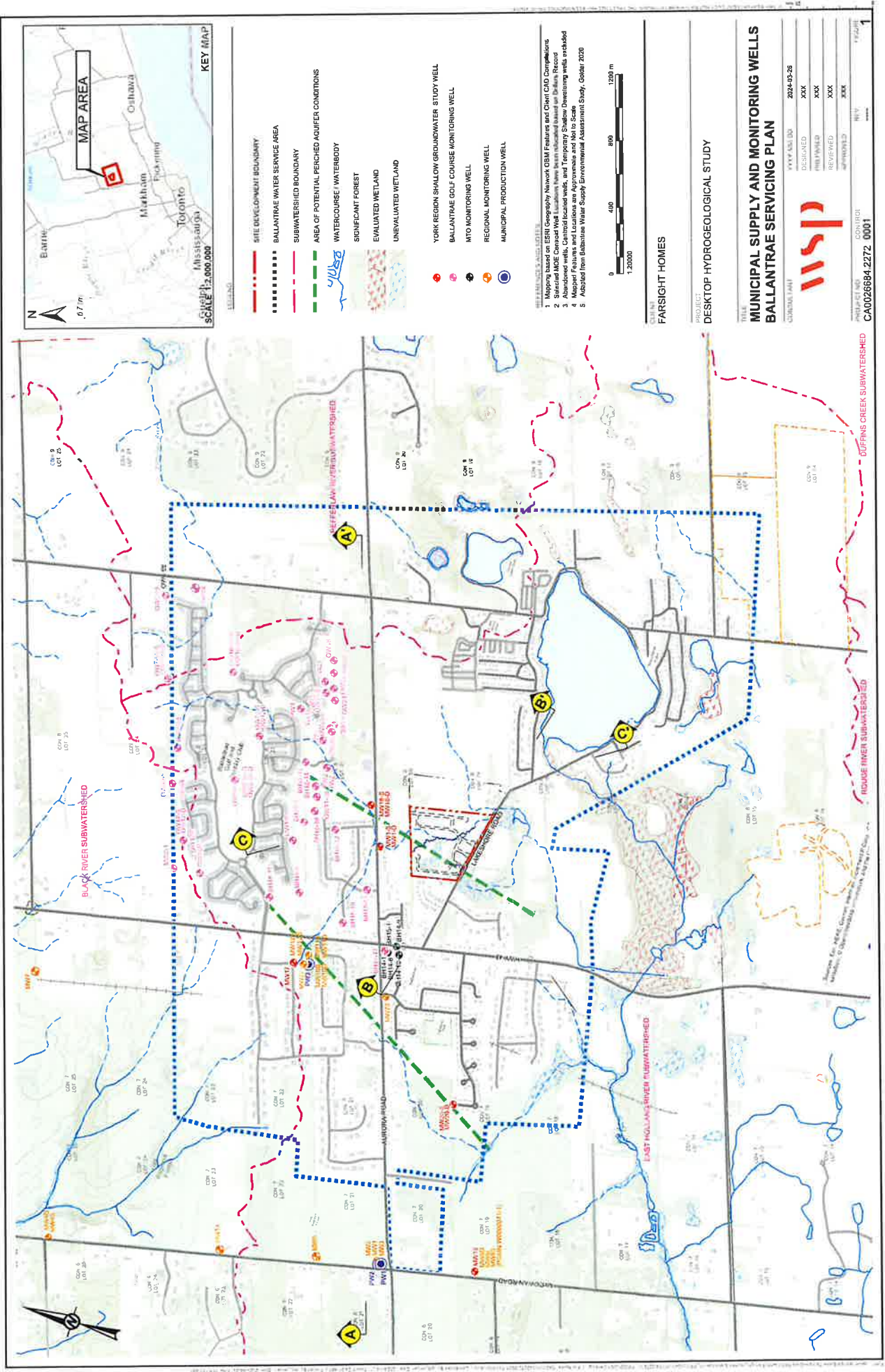
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Principal Hydrogeologist

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Figures



- LEGEND**
- SITE DEVELOPMENT BOUNDARY
 - BALLANTRAE WATER SERVICE AREA
 - SUBWATERSHED BOUNDARY
 - AREA OF POTENTIAL PERCHED AQUIFER CONDITIONS
 - WATERCOURSE / WATERBODY
 - SIGNIFICANT FOREST
 - EVALUATED WETLAND
 - UNEVALUATED WETLAND
 - YORK REGION SHALLOW GROUNDWATER STUDY WELL
 - BALLANTRAE GOLF COURSE MONITORING WELL
 - MTD MONITORING WELL
 - REGIONAL MONITORING WELL
 - MUNICIPAL PRODUCTION WELL

1. Mapings based on ESRi Geography Network (GN) Features and Client CAD Compendiums
2. Saturated MOE Central Well Locations have been indicated based on Data Record
3. Abandoned wells, Central located wells, and Temporary Shallow Dwelling wells enclosed
4. Abandoned wells, Central located wells, and Temporary Shallow Dwelling wells enclosed
5. Adapted from Ballantrae Water Supply Environmental Assessment Study, Golden 2020

FARSIGHT HOMES

DESKTOP HYDROGEOLOGICAL STUDY

MUNICIPAL SUPPLY AND MONITORING WELLS BALLANTRAE SERVICING PLAN

CLIENT	WSP
DATE	2024-10-26
DESIGNED	XXX
REVIEWED	XXX
APPROVED	XXX
PROJECT NO.	CA002664 2272 0001
CONTROL	1



PLAN LEGEND

--- DEVELOPMENT BOUNDARY



CLIENT
FARSIGHT HOMES

PROJECT
DESKTOP HYDROGEOLOGICAL STUDY

TYPE
PROPOSED DEVELOPMENT PLAN

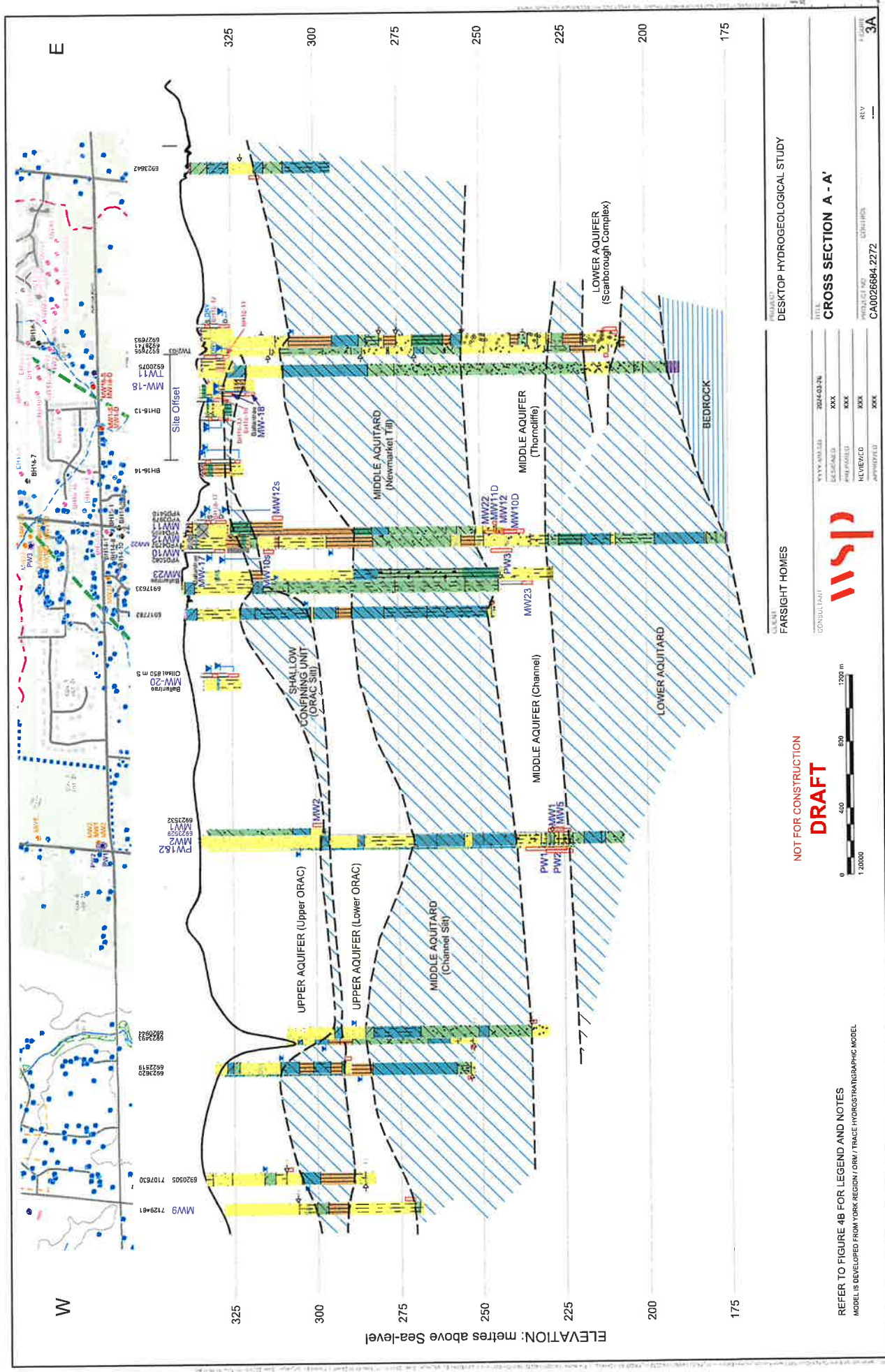
DATE	2024-03-26
DESIGNED	JPR
PREPARED	JPR
REVIEWED	JPR
APPROVED	DDO



PROJECT NO.
CA0026684-2272 0001

SCALE

FIGURE
2



NOT FOR CONSTRUCTION
DRAFT



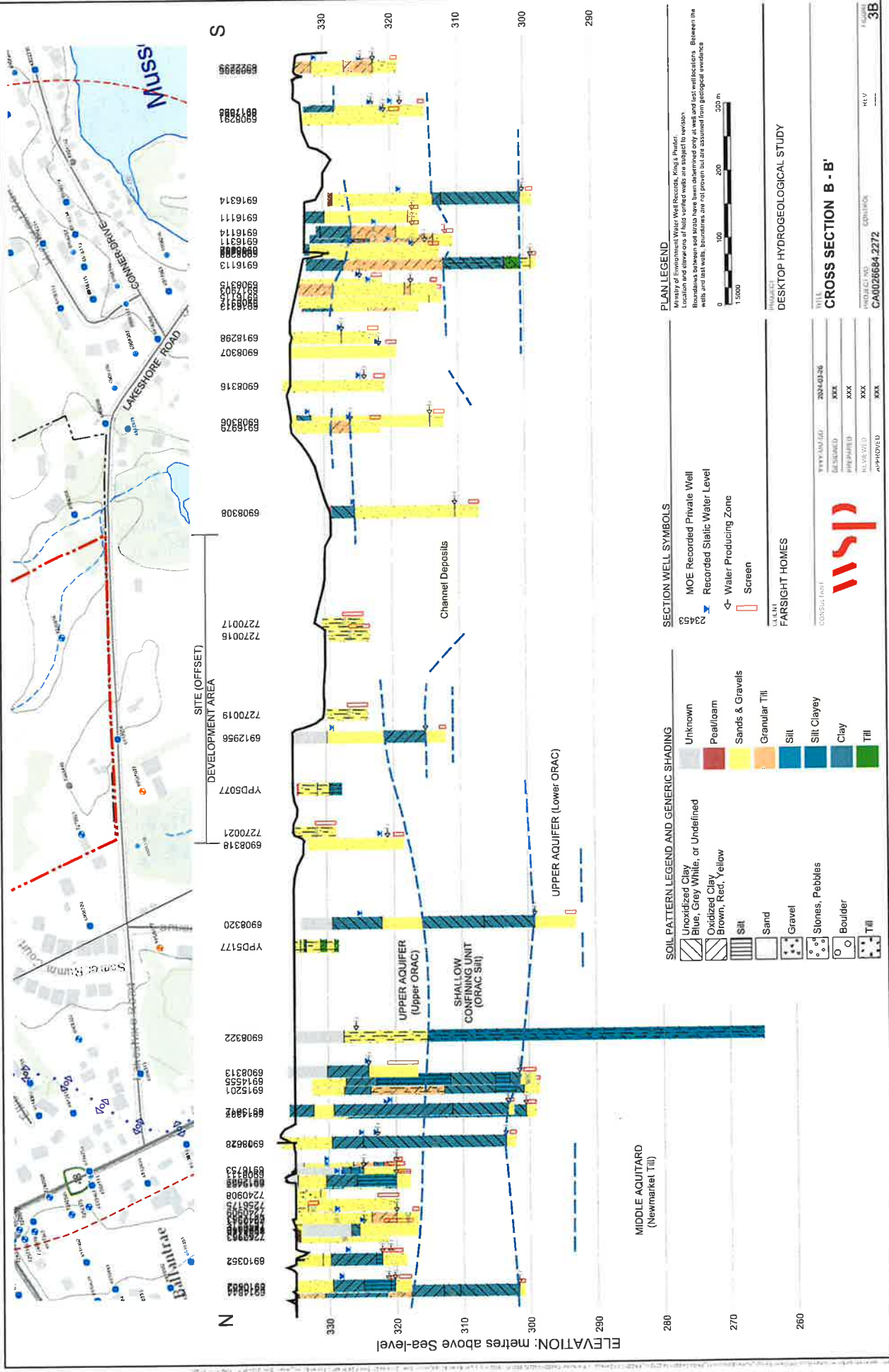
REFER TO FIGURE 4B FOR LEGEND AND NOTES
MODEL IS DEVELOPED FROM YORK REGION / ORM / TRACE HYDROSTRATIGRAPHIC MODEL

FARSIGHT HOMES
DESKTOP HYDROGEOLOGICAL STUDY

CLIENT	FARSIGHT HOMES
CONSULTANT	WSP
DATE	2024-03-26
DESIGNED BY	XXX
CHECKED BY	XXX
APPROVED BY	XXX
REVIEWED BY	XXX
APPROVED BY	XXX

CROSS SECTION A - A'

PROJECT NO	CA0026684 2272
REV	---
DATE	---
BY	---
CHECKED BY	---
APPROVED BY	---



PLAN LEGEND
Ministry of Environment Water Well Records, King's Printer
Location and elevations of this well are subject to verification. Between the
boundaries of the well, horizontal lines are not shown but are assumed from geological evidence
with the well walls, horizontal lines are not shown but are assumed from geological evidence

SECTION WELL SYMBOLS
MOE Recorded Private Well
Recorded Static Water Level
Water Producing Zone
Screen

SOIL PATTERN LEGEND AND GENERIC SHADING
Unknown
Peat/loam
Sands & Gravels
Granular Till
Silt
Silt Clayey
Clay
Till
Unoxidized Clay
Blue, Grey White, or Undefined
Oxidized Clay
Brown, Red, Yellow
Silt
Sand
Gravel
Stones, Pebbles
Boulder
Till

SOIL PATTERN LEGEND AND GENERIC SHADING
Unknown
Peat/loam
Sands & Gravels
Granular Till
Silt
Silt Clayey
Clay
Till

SOIL PATTERN LEGEND AND GENERIC SHADING
Unknown
Peat/loam
Sands & Gravels
Granular Till
Silt
Silt Clayey
Clay
Till

SECTION WELL SYMBOLS
MOE Recorded Private Well
Recorded Static Water Level
Water Producing Zone
Screen

SOIL PATTERN LEGEND AND GENERIC SHADING
Unknown
Peat/loam
Sands & Gravels
Granular Till
Silt
Silt Clayey
Clay
Till
Unoxidized Clay
Blue, Grey White, or Undefined
Oxidized Clay
Brown, Red, Yellow
Silt
Sand
Gravel
Stones, Pebbles
Boulder
Till

SOIL PATTERN LEGEND AND GENERIC SHADING
Unknown
Peat/loam
Sands & Gravels
Granular Till
Silt
Silt Clayey
Clay
Till

SECTION WELL SYMBOLS
MOE Recorded Private Well
Recorded Static Water Level
Water Producing Zone
Screen

SOIL PATTERN LEGEND AND GENERIC SHADING
Unknown
Peat/loam
Sands & Gravels
Granular Till
Silt
Silt Clayey
Clay
Till
Unoxidized Clay
Blue, Grey White, or Undefined
Oxidized Clay
Brown, Red, Yellow
Silt
Sand
Gravel
Stones, Pebbles
Boulder
Till

SOIL PATTERN LEGEND AND GENERIC SHADING
Unknown
Peat/loam
Sands & Gravels
Granular Till
Silt
Silt Clayey
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Till

SECTION WELL SYMBOLS
MOE Recorded Private Well
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Silt Clayey
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Gravel
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SOIL PATTERN LEGEND AND GENERIC SHADING
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Granular Till
Silt
Silt Clayey
Clay
Till

SECTION WELL SYMBOLS
MOE Recorded Private Well
Recorded Static Water Level
Water Producing Zone
Screen

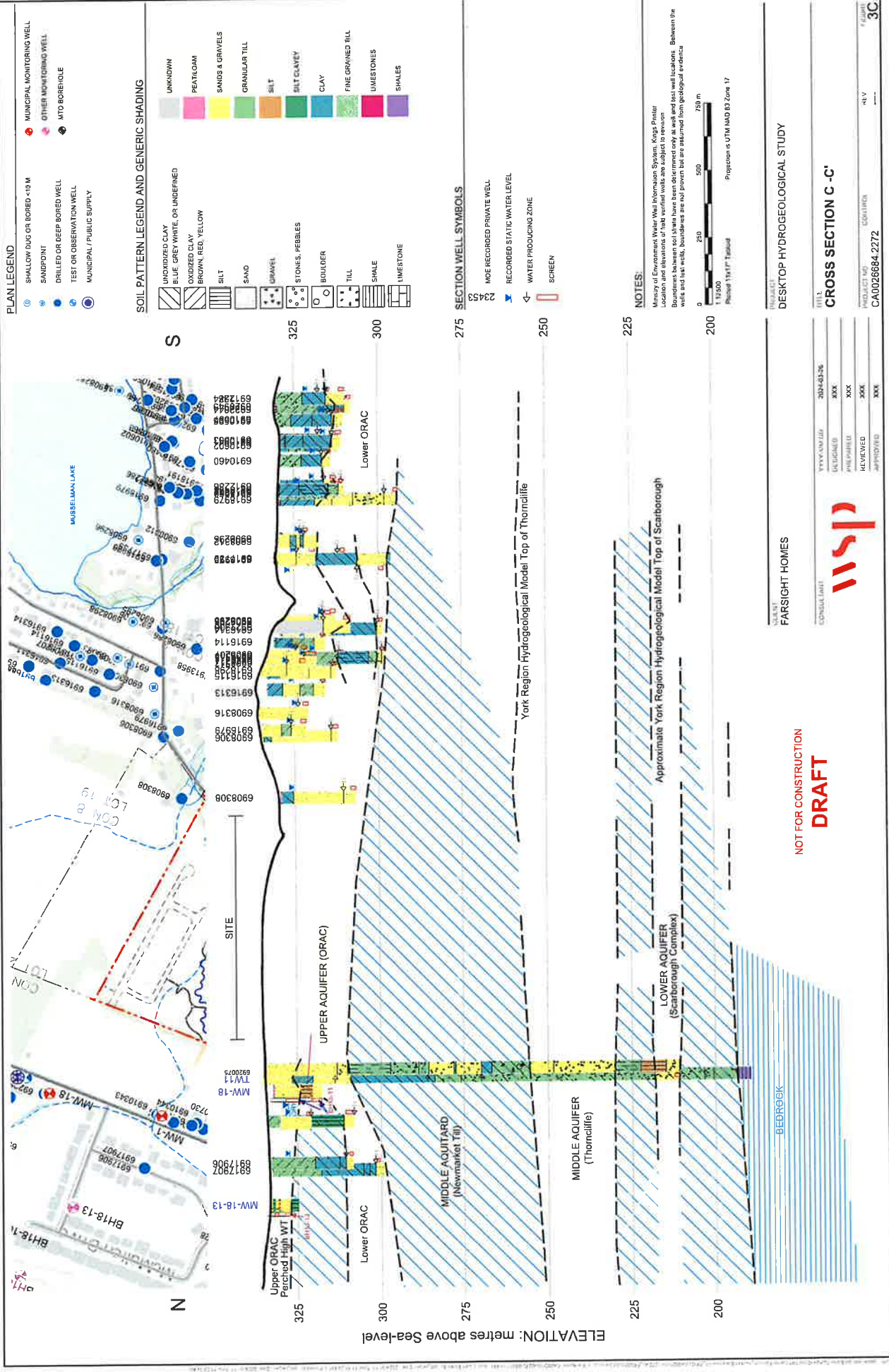
SOIL PATTERN LEGEND AND GENERIC SHADING
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Peat/loam
Sands & Gravels
Granular Till
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Silt Clayey
Clay
Till
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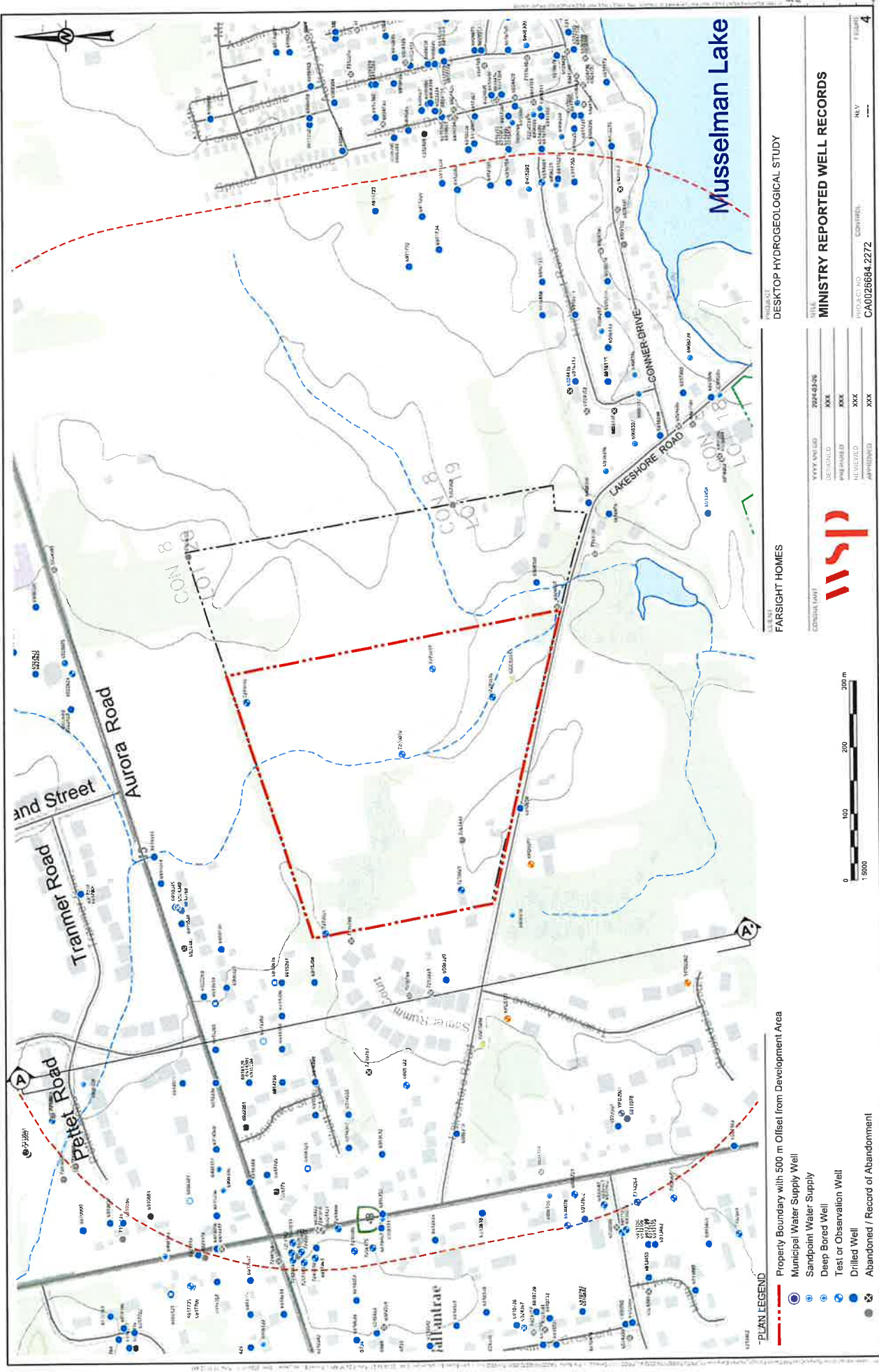
SOIL PATTERN LEGEND AND GENERIC SHADING
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SOIL PATTERN LEGEND AND GENERIC SHADING
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Silt
Silt Clayey
Clay
Till





PLAN LEGEND

- Property Boundary with 500 m Offset from Development Area
- Municipal Water Supply Well
- Sandpoint Water Supply
- Deep Bored Well
- Test or Observation Well
- Drilled Well
- Abandoned / Record of Abandonment

FARSIGHT HOMES



WSP	2024-03-26
DESIGNED	XXX
APPROVED	XXX
REVISED	XXX
APPROVED	XXX

DESKTOP HYDROGEOLOGICAL STUDY

MINISTRY REPORTED WELL RECORDS

PROJECT NO.	CA0026684-2272
REV.	---
DATE	4

APPENDIX A

**Important Information and
Limitations of This Report**



IMPORTANT INFORMATION AND LIMITATIONS OF THIS REPORT

Standard of Care: WSP Canada Inc. (WSP) has prepared this report in a manner consistent with that level of care and skill ordinarily exercised by members of the engineering and science professions currently practising under similar conditions in the jurisdiction in which the services are provided, subject to the time limits and physical constraints applicable to this report. No other warranty, expressed or implied is made.

Basis and Use of the Report: This report has been prepared for the specific site, design objective, development and purpose described to WSP by the Client. The factual data, interpretations and recommendations pertain to a specific project as described in this report and are not applicable to any other project or site location. Any change of site conditions, purpose, development plans or if the project is not initiated within eighteen months of the date of the report may alter the validity of the report. WSP cannot be responsible for use of this report, or portions thereof, unless WSP is requested to review and, if necessary, revise the report.

The information, recommendations and opinions expressed in this report are for the sole benefit of the Client. No other party may use or rely on this report or any portion thereof without WSP's express written consent. If the report was prepared to be included for a specific permit application process, then upon the reasonable request of the client, WSP may authorize in writing the use of this report by the regulatory agency as an Approved User for the specific and identified purpose of the applicable permit review process. Any other use of this report by others is prohibited and is without responsibility to WSP. The report, all plans, data, drawings and other documents as well as all electronic media prepared by WSP are considered its professional work product and shall remain the copyright property of WSP, who authorizes only the Client and Approved Users to make copies of the report, but only in such quantities as are reasonably necessary for the use of the report by those parties. The Client and Approved Users may not give, lend, sell, or otherwise make available the report or any portion thereof to any other party without the express written permission of WSP. The Client acknowledges that electronic media is susceptible to unauthorized modification, deterioration and incompatibility and therefore the Client can not rely upon the electronic media versions of WSP's report or other work products.

The report is of a summary nature and is not intended to stand alone without reference to the instructions given to WSP by the Client, communications between WSP and the Client, and to any other reports prepared by WSP for the Client relative to the specific site described in the report. In order to properly understand the suggestions, recommendations and opinions expressed in this report, reference must be made to the whole of the report. WSP can not be responsible for use of portions of the report without reference to the entire report.

Unless otherwise stated, the suggestions, recommendations and opinions given in this report are intended only for the guidance of the Client in the design of the specific project. The extent and detail of investigations, including the number of test holes, necessary to determine all of the relevant conditions which may affect construction costs would normally be greater than has been carried out for design purposes. Contractors bidding on, or undertaking the work, should rely on their own investigations, as well as their own interpretations of the factual data presented in the report, as to how subsurface conditions may affect their work, including but not limited to proposed construction techniques, schedule, safety and equipment capabilities.

Soil, Rock and Ground Water Conditions: Classification and identification of soils, rocks, and geologic units have been based on commonly accepted methods employed in the practice of geotechnical engineering and related disciplines. Classification and identification of the type and condition of these materials or units involves judgment, and boundaries between different soil, rock or geologic types or units may be transitional rather than abrupt. Accordingly, WSP does not warrant or guarantee the exactness of the descriptions.

Special risks occur whenever engineering or related disciplines are applied to identify subsurface conditions and even a comprehensive investigation, sampling and testing program may fail to detect all or certain subsurface conditions. The environmental, geologic, geotechnical, geochemical and hydrogeologic conditions that WSP interprets to exist between and beyond sampling points may differ from those that actually exist. In addition to soil variability, fill of variable physical and chemical composition can be present over portions of the site or on adjacent properties. The professional services retained for this project include only the geotechnical aspects of the subsurface conditions at the site, unless otherwise specifically stated and identified in the report. The presence or implication(s) of possible surface and/or subsurface contamination resulting from previous activities or uses of the site and/or resulting from the introduction onto the site of materials from off-site sources are outside the terms of reference for this project and have not been investigated or addressed.

Soil and groundwater conditions shown in the factual data and described in the report are the observed conditions at the time of their determination or measurement. Unless otherwise noted, those conditions form the basis of the recommendations in the report. Groundwater conditions may vary between and beyond reported locations and can be affected by annual, seasonal and meteorological conditions. The condition of the soil, rock and groundwater may be significantly altered by construction activities (traffic, excavation, groundwater level lowering, pile driving, blasting, etc.) on the site or on adjacent sites. Excavation may expose the soils to changes due to wetting, drying or frost. Unless otherwise indicated the soil must be protected from these changes during construction.

Sample Disposal: WSP will dispose of all uncontaminated soil and/or rock samples 90 days following issue of this report or, upon written request of the Client, will store uncontaminated samples and materials at the Client's expense. In the event that actual contaminated soils, fills or groundwater are encountered or are inferred to be present, all contaminated samples shall remain the property and responsibility of the Client for proper disposal.

Follow-Up and Construction Services: All details of the design were not known at the time of submission of WSP's report. WSP should be retained to review the final design, project plans and documents prior to construction, to confirm that they are consistent with the intent of WSP's report.

During construction, WSP should be retained to perform sufficient and timely observations of encountered conditions to confirm and document that the subsurface conditions do not materially differ from those interpreted conditions considered in the preparation of WSP's report and to confirm and document that construction activities do not adversely affect the suggestions, recommendations and opinions contained in WSP's report. Adequate field review, observation and testing during construction are necessary for WSP to be able to provide letters of assurance, in accordance with the requirements of many regulatory authorities. In cases where this recommendation is not followed, WSP's responsibility is limited to interpreting accurately the information encountered at the borehole locations, at the time of their initial determination or measurement during the preparation of the Report.

APPENDIX B

MECP Well Records

LABEL	CON	DATE	EASTING	ELEV	WTR FND	SCR TOP LEN	SWL	RATE	TIME	PL	DRILLER	TYPE	WELL NAME
LOT		mm-yr	NORTHING	masl	mbgl Qu	mbgl m	mbgl	L/min	min	mbgl	METHOD	STAT	DESCRIPTION OF MATERIALS
1907350	8	Jun-85	637528	335.0	35.1 Fr		7.0	23	150	48.8	5457	WS	MOE# 1907350
19			4877208								CT	DO	0.0 BRWN SAND CLAY 2.4 BRWN CLAY SOFT 11.6 BRWN SILT WBRG 17.1 GREY SILT WBRG 27.4 GREY CLAY SILT WBRG 40.5 GREY SILT GRVL WBRG 50.9 GREY SAND GRVL WBRG 53.3 BRWN SAND GRVL WBRG 55.2
6908106	7	Nov-56	636486	336.5	5.8 Fr	5.8 -1.5	5.8	23	60	5.8	5419	WS	MOE# 6908106
20			4877070								JT	DO	0.0 MSND 7.3
6908111	7	Feb-64	636454	335.6	10.7 Fr	14.0 -2.7	5.5	14	150	13.7	2204	WS	MOE# 6908111
20			4877321								JT	DO	0.0 PRDG 7.6 CLAY 8.8 QSND 10.1 CLAY 10.7 FSND 16.8
6908112	7	Sep-64	636402	334.1	9.1 Fr	12.2 -4.3	9.1	23	300		5419	WS	MOE# 6908112
20			4877454								JT	ST	0.0 PRDR 7.3 BLUE CLAY 8.5 FSND 17.7
6908119	7	May-60	636400	337.7	9.1 Fr	12.2 -3.0	9.1	18	180	9.1	5419	WS	MOE# 6908119
21			4877649								JT	DO	0.0 PRDG 9.1 FSND 15.2
6908207	8	Jun-58	637787	331.9	6.1 Fr	6.7 -1.5	6.1	23	60	6.1	5419	WS	MOE# 6908207
18			4876982								JT	DO	0.0 MSND 8.2
6908286	8	Aug-48	637597	333.8	29.6 Fr	30.8 -1.5	30.2	18	240		2204	WS	MOE# 6908286
18			4876804								JT	ST	0.0 TPSL 0.6 RED CLAY 9.8 BLUE CLAY 29.0 CSND 30.2 CSND GRVL 32.3
6908291	8	Oct-61	638008	333.1	12.2 Fr	13.1 -1.5	12.2	18	180		5419	WS	MOE# 6908291
18			4877050								JT	DO	0.0 GREY MSND 14.6
6908292	8	May-62	638002	334.7	12.2 Fr	13.4 -1.5	12.2	23	120		5419	WS	MOE# 6908292
18			4877091								JT	DO	0.0 FSND 14.9
6908295	8	Nov-63	637689	328.9	12.2 Fr	13.1 -1.5	12.2	18	60		5419	WS	MOE# 6908295
18			4876804								JT	DO	0.0 FSND 14.6
6908298	8	Jun-67	637746	328.0	11.3 Fr	13.7 -1.5	11.3	23	180	11.3	5419	WS	MOE# 6908298
18			4876848								JT	DO	0.0 MSND 15.2
6908306	8	May-62	637529	335.0	20.7 Fr	21.3 -1.5	2.7	14	240	21.0	2204	WS	MOE# 6908306
19			4877003								JT	DO	0.0 FSND 0.9 GREY CLAY 3.0 FSND 20.7 MSND 22.9
6908307	8	Jun-62	637617	335.3	13.4 Fr	14.6 -1.5	13.4	23	120		5419	WS	MOE# 6908307
19			4876932								JT	DO	0.0 FSND 16.2
6908308	8	May-64	637410	329.2	18.6 Fr	20.7 -1.5	3.7	18	240	20.4	2204	WS	MOE# 6908308
19			4877083								JT	DO	0.0 TPSL 0.3 CLAY 3.7 MSND 18.6 MSND 22.3
6908313	8	Mar-65	636581	336.2	12.2 Fr	14.9 -4.6	12.2	18	360		5419	WS	MOE# 6908313
20			4877209								JT	DO	0.0 PRDG 6.1 BRWN CLAY 12.2 FSND 19.5
6908315	8	Jun-67	637721	333.8	9.1 Fr	11.0 -1.5	9.1	23	120	9.1	5419	WS	MOE# 6908315
19			4876932								JT	DO	0.0 MSND 12.5
6908316	8	Jul-67	637577	336.2	12.2 Fr	13.7 -1.5	11.6	18	180	11.6	5419	WS	MOE# 6908316
19			4876976								JT	DO	0.0 MSND 15.2
6908317	8	Jul-67	637692	333.8	11.6 Fr	12.2 -3.0	11.6	14	240	11.6	5419	WS	MOE# 6908317
19			4876926								JT	DO	0.0 MSND 15.2

LABEL	CON	DATE	EASTING	ELEV	WTR FND	SCR TOP LEN	SWL	RATE	TIME	PL	DRILLER	TYPE	WELL NAME
LOT		mm-yr	NORTHING	masl	mbgl Qu	mbgl m	mbgl	L/min	min	mbgl	METHOD	STAT	DESCRIPTION OF MATERIALS
6908318	8	May-50	636909	332.8	11.9 Fr	12.8 -1.5	11.0	18		13.4	2204	WS	MOE# 6908318
20			4877123								JT	DO	0.0 CSND 14.3
6908320	8	Oct-62	636813	334.1	35.1 Fr	39.6 -1.5	9.1	14	360		3108	WS	MOE# 6908320
20			4877223								CT	DO	0.0 PRDG 4.9 CLAY FSND 12.2 FSND 18.3 BLUE CLAY 27.4 CLAY MSND 35.1 BLUE FSND 41.1
6908321	8	Nov-62	636804	334.4	17.4 Fr	14.9 -2.4	7.6	9	60	17.1	1413	WS	MOE# 6908321
20			4877554								CT	DO	0.0 PRDG 7.6 YLLW CLAY SILT 14.3 RED FSND 17.4
6908322	8	Nov-65	636655	335.0	9.1 Fr		NR			5420		TH	MOE# 6908322
20			4877284								CT	NU	0.0 PRDG 7.3 BRWN MSND SILT 19.8 QSND CLAY 70.1
6908323	8	Jun-65	636531	333.1	10.4 Fr		10.4	23		4102		WS	MOE# 6908323
20			4877433								BR	DO	0.0 CSND 10.4 FSND 14.3
6908325	8	Apr-53	637380	332.2	13.7 Fr	11.3 -2.4	8.5	23	120	9.1	1413	WS	MOE# 6908325
21			4877838								CT	DO	0.0 MSND GRVL 13.7
6908328	8	Oct-58	636661	333.1	10.7 Fr	11.6 -3.0	10.7	18	300	10.7	5419	WS	MOE# 6908328
21			4877769								JT	DO	0.0 MSND 5.2 CLAY 9.1 MSND 14.6
6908329	8	May-59	636484	333.1	1.8 Fr		1.8	5		4102		WS	MOE# 6908329
21			4877611								BR	DO	0.0 MSND 1.8 QSND 4.9
6908336	8	Aug-65	636499	333.1	9.8 Fr	8.2 -2.7	4.3	18	180	10.7	2204	WS	MOE# 6908336
21			4877561								JT	DO	0.0 PRDG 3.7 MSND CLAY 9.8 FSND 11.0
6908337	8	Sep-66	636531	333.1	9.1 Fr	9.8 -1.5	9.1	18		5419		WS	MOE# 6908337
21			4877567								JT	CO	0.0 FSND 6.1 BLUE CLAY 9.1 FSND 11.3
6910269	8	Apr-71	636921	330.1	9.1 Fr	7.9 -1.2	2.7	23	120	6.1	1413	WS	MOE# 6910269
20			4877621								CT	DO	0.0 BLCK TPSL MSND 0.3 RED MSND 9.1
6910343	8	Jun-71	637002	333.5	24.7 Fr	22.3 -2.4	6.1	41	120	24.4	1413	WS	MOE# 6910343
20			4877662								CT	DO	0.0 BRWN MSND CLAY 7.6 BLUE SILT CLAY 21.6 GREY FSND 24.7
6910344	8	Jun-71	636962	333.5	25.3 Fr	22.9 -2.4	6.1	41	120	18.3	1413	WS	MOE# 6910344
20			4877652								CT	DO	0.0 BRWN MSND CLAY 7.6 BLUE SILT CLAY 22.3 GREY FSND 25.3
6910345	8	Jun-71	636926	333.5	24.4 Fr	21.9 -2.4	6.4	27	120	22.3	1413	WS	MOE# 6910345
20			4877631								CT	DO	0.0 BRWN MSND CLAY 11.0 BLUE SILT CLAY 21.6 GREY FSND 24.4
6910538	8	Sep-71	636901	333.5	24.7 Fr	25.3 -1.2	6.1	36	150	18.3	1350	WS	MOE# 6910538
20			4877621								CT	DO	0.0 BRWN MSND 4.9 BRWN CLAY 5.8 BRWN MSND 15.8 GREY MSND 16.5 GREY CLAY GRVL 19.5 GREY MSND 20.1 GREY CLAY 21.0 GREY MSND 23.2 GREY SILT 24.7 BRWN MSND 26.5
6910730	8	Oct-71	636861	334.4	24.4 Fr	25.0 -0.9	6.4	27	200	14.0	1350	WS	MOE# 6910730
20			4877561								CT	DO	0.0 BRWN MSND 1.2 BRWN MSND CLAY 3.0 BRWN CLAY GRVL 8.5 BRWN FSND 14.9 GREY MSND CLAY 17.4 GREY CLAY 21.0 GREY SILT 24.4 BRWN MSND 25.9

LABEL	CON	DATE	EASTING	ELEV	WTR FND	SCR TOP LEN	SWL	RATE	TIME	PL	DRILLER	TYPE	WELL NAME
LOT		mm-yr	NORTHING	masl	mbgl Qu	mbgl m	mbgl	L/min	min	mbgl	METHOD	STAT	DESCRIPTION OF MATERIALS
6910818	8 20	Jul-71	636811 4877481	334.7	6.7 Fr		6.7				5459 BR	WS DO	MOE# 6910818 0.0 TP&L MSND 0.3 BRWN FSND CLAY 6.7 BRWN MSND 10.7
6910881	8 21	May-72	636461 4877671	334.1			NR				1413 CT	AS	MOE# 6910881 0.0 BRWN SAND 1.5 BRWN CLAY SAND SILT 5.5 BLUE SAND CLAY 7.0 BRWN CLAY SAND 15.2 BLUE CLAY SAND SILT 23.8
6910886	8 21	May-72	636451 4877711	334.1	26.5 Fr	27.7 -1.8	12.2	18	200	24.4	1350 CT	WS DO	MOE# 6910886 0.0 BRWN SAND 2.7 GREY CLAY 7.3 BRWN CLAY SAND 10.1 BRWN SILT 19.5 GREY CLAY SILT 24.7 GREY SILT 25.9 GREY CLAY 27.1 GREY SAND 29.6
6911078	8 19	Oct-72	636601 4876951	335.0	32.9 Fr	30.5 -2.4	6.1	23	120	24.4	1413 CT	WS DO	MOE# 6911078 0.0 BRWN SAND 6.1 BRWN CLAY 11.0 GREY CLAY SILT 29.9 GREY SAND 32.9
6911229	8 19	Aug-72	637962 4877252	339.9	19.8 Fr	20.1 -1.5	19.8	27	120		5419 CT	WS DO	MOE# 6911229 0.0 SAND 21.6
6911230	8 19	Aug-72	638012 4877222	339.9	18.3 Fr	18.3 -1.5	18.3	23	120		5419 JT	WS DO	MOE# 6911230 0.0 CLAY 1.5 SAND 19.8
6911732	8 19	Jul-73	637887 4877272	339.9	21.3 Fr	19.8 -1.5	18.3	23	120	19.8	5419 CT	WS DO	MOE# 6911732 0.0 CLAY 1.5 SAND 21.3
6911733	8 19	Jul-73	637972 4877322	339.9	21.3 Fr	19.8 -1.5	18.3	23	120	19.8	5419 CT	WS DO	MOE# 6911733 0.0 CLAY 1.5 SAND 21.3
6911734	8 19	Jul-73	637912 4877227	339.9	21.3 Fr	19.8 -1.5	18.3	23	120	19.8	5419 CT	WS DO	MOE# 6911734 0.0 CLAY 1.5 SAND 21.3
6911823	8 18	Oct-73	638017 4877047	332.8	10.1 Fr		10.1	18	70		2218 CT	WS DO	MOE# 6911823 0.0 BRWN CLAY SAND 2.4 BRWN SAND 6.1 BRWN FSND CLAY 10.1 BRWN FSND 14.3
6912068	8 19	May-74	638002 4877199	338.9	14.0 Fr	18.0 -1.5	14.6	18	100		2218 CT	WS PU	MOE# 6912068 0.0 BRWN SAND CLAY STNS 1.5 BRWN SAND 14.0 BRWN SAND 19.5
6912165	8 18	Jun-74	638008 4877149	339.9	17.1 Fr	20.4 -1.5	17.1	23	130		2218 CT	WS PU	MOE# 6912165 0.0 BRWN CLAY 1.2 BRWN SAND CLAY 17.1 BRWN SAND 21.9
6912839	7 20	Jul-75	636421 4877242	335.9	15.8 Fr	16.2 -1.8	7.3	27	60	14.0	1350 CT	WS DO	MOE# 6912839 0.0 PRDG 1.2 BRWN SAND 5.5 YLLW CLAY SAND 10.1 BRWN SILT SAND CLAY 15.8 BRWN FSND 18.0
6912862	7 19	May-75	636451 4877017	335.0	33.5 Fr	34.4 -3.7	11.0	50	120	27.4	1350 CT	WS DO	MOE# 6912862 0.0 BRWN SAND GRVL 1.2 BRWN SAND 3.7 YLLW CLAY 10.1 GREY SILT CLAY 20.7 GREY CLAY 33.5 GREY FSND 38.1
6912956	8 20	Oct-75	637070 4877110	335.0	19.8 -	21.9 -0.9	6.1	68	120	18.3	5459 CT	WS DO	MOE# 6912956 0.0 PRDG 5.2 BRWN FSND 13.7 BRWN CLAY SAND 19.8 BRWN FSND 22.9

LABEL	CON	DATE	EASTING	ELEV	WTR FND	SCR TOP	SWL	RATE	TIME	PL	DRILLER	TYPE	WELL NAME
LOT		mm-yr	NORTHING	masl	mbgl Qu	mbgl m	mbgl	L/min	min	mbgl	METHOD	STAT	DESCRIPTION OF MATERIALS
6914560	8	Jun-78	636561	333.1	28.0 Fr	27.1 -1.8	12.2	23	60	27.4	1350	WS	MOE# 6914560 0.0 BRWN SAND 4.0 YLLW CLAY 9.1 GREY SILT
21			4877571								CT	DO	CLAY 20.7 GREY CLAY 22.9 GREY SILT 24.7 GREY CLAY 28.0 GREY FSND 29.9
6914901	8	Jul-78	638012	333.8	13.1 Fr		NR			1840		OW	MOE# 6914901 0.0 BRWN SAND SILT LOOS 2.7 BRWN SILT CLAY
18			4877072							-		NU	SNDY 4.0 BRWN FSND MSND PKD 15.2
6915200	8	Apr-79	636661	331.9	31.4 Fr	31.4 -1.8	11.6	32	60	30.5	1350	WS	MOE# 6915200 0.0 BRWN SAND 5.2 YLLW CLAY 9.4 BRWN SILT
20			4877421								CT	DO	CLAY 20.7 GREY CLAY 27.7 GREY SILT 29.6 GREY CLAY 31.4 BRWN FSND VERY 33.8
6915201	8	Apr-79	636611	332.5	31.7 Fr	32.6 -1.5	11.6	45	60	22.9	1350	WS	MOE# 6915201 0.0 BRWN SAND 4.9 YLLW CLAY 8.8 BRWN SAND
20			4877421								CT	DO	SILT CLAY 19.8 GREY CLAY 27.4 GREY SILT 30.5 GREY CLAY 31.7 BRWN SAND 34.1
6915203	8	May-79	636711	331.9	32.9 Fr	32.6 -0.9	12.5	18	60	33.2	1350	WS	MOE# 6915203 0.0 BRWN SAND 6.7 YLLW CLAY 9.4 BRWN SILT
20			4877571								CT	DO	CLAY 21.0 GREY CLAY 32.9 BRWN SAND 34.1
6915204	8	Sep-79	636661	331.9	34.1 Fr	33.8 -1.5	12.8	36	60	30.5	1350	WS	MOE# 6915204 0.0 BRWN SAND 7.3 YLLW CLAY SAND 9.8 BRWN
20			4877521								CT	DO	SILT CLAY 21.3 GREY CLAY 34.1 GREY SAND 36.0
6915206	8	Jul-79	636461	336.8	32.9 Fr	32.6 -1.5	11.0	68	180	19.8	1350	WS	MOE# 6915206 0.0 BRWN SAND 6.4 YLLW CLAY SAND 9.1 BRWN
20			4877571								CT	DO	SILT CLAY 20.7 GREY CLAY SILT 32.9 BRWN SAND 34.7
6915207	8	Jul-79	636811	334.7	29.9 Fr	29.6 -1.2	11.9	45	60	19.8	1350	WS	MOE# 6915207 0.0 BRWN SAND 5.5 YLLW CLAY SAND 8.8 BRWN
20			4877471								CT	DO	SILT CLAY 20.1 GREY CLAY 29.9 BRWN SAND 31.4
6915208	8	May-79	636811	334.7	31.7 Fr	31.7 -1.8	11.9	41	60	25.9	1350	WS	MOE# 6915208 0.0 BRWN SAND 6.1 YLLW CLAY SAND 9.1 BRWN
20			4877421								CT	DO	SILT CLAY 19.8 GREY CLAY 31.7 BRWN SAND 34.1
6915336	8	Nov-79	636661	336.8	32.9 Fr	32.6 -1.5	12.2	36	60	30.5	1350	WS	MOE# 6915336 0.0 BRWN SAND 5.5 YLLW CLAY SAND 9.8 BRWN
20			4877571								CT	DO	SILT SAND CLAY 20.7 GREY CLAY 32.9 BRWN SAND 34.7
6916111	8	Nov-81	637862	332.8	16.2 Fr	16.2 -0.9	NR	23	120	15.8	5457	WS	MOE# 6916111 0.0 BRWN CLAY SNDY 3.0 BRWN CSND 15.5 BRWN
18			4877072								CT	DO	MSND 17.1
6916112	8	Nov-81	637812	332.8	18.0 Fr		12.8	18	120	17.7	5457	WS	MOE# 6916112 0.0 BRWN CLAY SNDY 2.7 BRWN MSND 16.2 BRWN
18			4877072								CT	DO	FSND 18.9

LABEL	CON	DATE	EASTING	ELEV	WTR FND	SCR TOP LEN	SWL	RATE	TIME	PL	DRILLER	TYPE	WELL NAME
LOT		mm-yr	NORTHING	masl	mbgl Qu	mbgl m	mbgl	L/min	min	mbgl	METHOD	STAT	DESCRIPTION OF MATERIALS
6916113	8	Dec-81	637762	332.5	33.5 Fr	33.5 -0.9	13.4	18	180	32.6	5457	WS	MOE# 6916113 0.0 BRWN CLAY SNDY 5.5 BRWN SAND CLAY LYRD
18			4876972								CT	DO	20.4 GREY CLAY SLTY 29.6 GREY CLAY STNS 32.0 GREY FSND SLTY 33.5 GREY FSND 34.4
6916114	8	Dec-81	637812	331.0	14.3 Fr	14.3 -0.9	8.8	27	120	13.7	5457	WS	MOE# 6916114 0.0 BRWN CLAY 0.6 BRWN CLAY SNDY 5.2 BRWN
18			4876972								CT	DO	MSND CLAY LYRD 11.9 BRWN FSND 15.2
6916115	8	Jan-82	637712	333.1	19.5 Fr	19.5 -1.2	11.9	18	180	19.5	5457	WS	MOE# 6916115 0.0 BRWN CLAY SNDY 3.7 BRWN MSND 12.5 BRWN
18			4876972								CT	DO	FSND 18.9 GREY FSND 20.7
6916128	8	Jul-81	636661	331.9	31.4 Fr	31.4 -1.2	13.1	45	60	27.4	1350	WS	MOE# 6916128 0.0 BRWN SAND 7.9 YLLW CLAY SAND 10.7 YLLW
20			4877421								CT	DO	SILT CLAY 20.1 GREY CLAY SILT 28.7 GREY CLAY 31.4 BRWN SAND 32.6
6916129	8	Jul-81	636661	331.9	32.9 Fr	32.6 -0.9	12.8	55	60	24.4	1350	WS	MOE# 6916129 0.0 BRWN SAND 6.7 YLLW CLAY SAND 10.4 YLLW
20			4877521								CT	DO	SILT CLAY 20.7 GREY CLAY 24.1 GREY SILT 25.6 GREY CLAY 32.9 BRWN SAND 33.8
6916311	8	Mar-82	637812	331.9	20.1 Fr	20.1 -1.2	11.9	23	180	19.5	5457	WS	MOE# 6916311 0.0 BRWN CLAY SNDY 8.8 BRWN SAND CLAY LYRD
18			4877022								CT	DO	18.3 BRWN SAND 21.3
6916313	8	Jul-82	637712	333.1	16.5 Fr	16.5 -0.9	7.6	45	120	13.7	5457	WS	MOE# 6916313 0.0 BLCK TPSL 0.3 BRWN CLAY 4.6 BRWN CSND
18			4877022								CT	DO	9.8 BRWN SAND CLAY 13.7 BRWN SAND 17.4
6916314	8	Jun-82	637862	329.2	29.0 Fr	29.6 -0.9	10.7	27	60	29.0	3108	WS	MOE# 6916314 0.0 BRWN TPSL SNDY 0.6 BRWN SAND 15.5 BRWN
18			4876972								CT	DO	CLAY SNDY 16.8 BLUE CLAY SNDY 28.7 BLUE SAND 30.5
6916349	8	Aug-82	636511	335.3	32.6 Fr	34.1 -1.2	5.5	45	120	24.4	4743	WS	MOE# 6916349 0.0 YLLW SAND CLAY 6.4 GREY SAND CLAY SOFT
20			4877521								CT	DO	17.7 YLLW CLAY SOFT 27.4 GREY TILL 32.6 GREY FSND CLN 35.4
6916668	8	Jul-82	637812	332.8			NR	23	180		5419	WS	MOE# 6916668 0.0 CLAY 2.1 SAND CLAY 13.7 FSND 18.3
18			4877072								CT	DO	
6916753	7	Jul-83	636461	335.6	15.5 Fr	15.2 -1.2	5.5	14	60		5457	WS	MOE# 6916753 0.0 PRDG 1.8 BRWN SAND DRY 9.1 BRWN SAND
20			4877321								CT	DO	CLAY 12.2 GREY CLAY LOOS 13.7 GREY SAND CLAY LTCL 15.5 BRWN SAND 16.2
6916754	8	Jun-83	638012	336.5	13.7 Fr		11.0	18	120	13.4	5457	WS	MOE# 6916754 0.0 BRWN SAND DRY 9.1 BRWN SAND 14.6 BRWN
18			4877122								CT	DO	SAND CLAY LOOS 17.7
6916979	8	Sep-83	637512	334.4	8.2 Fr	11.3 -1.5	8.2	23	200		2218	WS	MOE# 6916979 0.0 BRWN SAND 5.5 BRWN FSND CLAY 8.2 BRWN
18			4876972								CT	-	SAND 12.8

LABEL	CON	DATE	EASTING	ELEV	WTR FND	SCR TOP	LEN	SWL	RATE	TIME	PL	DRILLER	TYPE	WELL NAME
LOT		mm-yr	NORTHING	masl	mbgl	Qu	m	mbgl	L/min	min	mbgl	METHOD	STAT	DESCRIPTION OF MATERIALS
6917055	8	Mar-84	638012	331.9	13.4	Fr	16.2 -0.9	12.2	27	60	15.2	5457	WS	MOE# 6917055
	18		4877022									CT	DO	0.0 BRWN CLAY SNDY 3.7 BRWN SAND 17.1
6917363	7	Nov-84	636411	334.1	14.0	Fr	16.5 -0.9	5.5	14	60	15.8	5457	WS	MOE# 6917363
	20		4877421									CT	DO	0.0 BRWN SAND DRY 10.4 BRWN SAND CLAY 14.0 BRWN FSND WBRG 17.4
6917705	8	Nov-85	636522	335.6			86.0 -1.8	35.1	77	1440	82.3	4816	WS	MOE# 6917705
	20		4877495									RC	DO	0.0 TPSL 0.6 BRWN FSND 8.2 BRWN FSND CLAY 34.7 GREY SAND CLAY DNSE 117.0 MSND CSND 118.9 CLAY 122.2 MSND CSND 122.8 CLAY TILL 125.0
6917903	8	May-85	637693	333.8	16.8	Fr	19.8 -0.9	10.7	45	60	18.3	5459	WS	MOE# 6917903
	18		4876859									CT	DO	0.0 BRWN SAND CLAY 5.2 BRWN SAND 15.8 BRWN SAND CLAY 16.8 BRWN SAND 20.7
6917906	8	Oct-85	636947	333.5	22.9	Fr	24.1 -0.9	6.1	32		22.9	5459	WS	MOE# 6917906
	21		4877772									CT	DO	0.0 BRWN SAND CLAY 13.7 BLUE CLAY SOFT 21.0 BLUE CLAY SAND FSND 22.9 BLUE SAND 25.0
6917907	8	Oct-85	636947	332.2	30.5	Fr	30.8 -0.9	6.7	27		29.0	5459	WS	MOE# 6917907
	21		4877772									CT	DO	0.0 BRWN SAND CLAY 14.3 BLUE CLAY SOFT 26.8 BLUE CLAY SAND 28.7 BLUE CLAY 30.5 BLUE SAND FSND 33.2
6918298	8	Aug-86	637629	335.0	7.6	Fr	11.6 -1.5	7.6	23	150		2218	WS	MOE# 6918298
	18		4876894									CT	PU	0.0 BRWN SAND 7.6 BRWN SAND 13.1
6918902	8	Jul-87	637593	333.8	12.8	Fr	14.9 -1.2	7.6	27	120	14.6	5457	WS	MOE# 6918902
	18		4876802									RC	DO	0.0 BRWN SAND CLAY 5.5 BRWN SAND 16.2
6919467	8	Nov-87	636440	335.6			16.2 -1.5	7.9	27	60	15.2	1350	WS	MOE# 6919467
	20		4877323									CT	DO	0.0 BRWN SAND 4.9 YLLW CLAY 7.6 BRWN SAND 14.0 GREY CLAY 14.6 GREY SILT 15.5 BRWN SAND 17.7
6920075	8	Jul-87	637295	335.0				NR				2801	TH	MOE# 6920075
	21		4877794									RC	NU	0.0 SAND 8.5 BRWN CLAY SOFT 14.6 FSND CSND 25.9 GREY CLAY 51.2 CLAY GRVL HARD 59.1 GRVL CLAY HARD 116.7 GRVL CLAY 124.4 CLAY GRVL 131.7 GRVL CLAY 134.4 CLAY GRVL HARD 141.4 SHLE 145.7
6921193	7	Jul-90	636558	333.8	23.8	Fr	24.4 -0.9	16.8	91	60	21.3	5459	WS	MOE# 6921193
	19		4876791									CT	DO	0.0 BRWN CLAY SAND 4.9 BRWN SAND CSND 6.4 BRWN GRVL CGVL 14.6 BRWN SAND SILT 18.3 BRWN SAND FSND 23.8 BRWN SAND MSND 25.3
6921306	8	Nov-11	637686	331.0	14.6	Fr	20.7 -1.8	13.1	23	150		2218	WS	MOE# 6921306
	18		4876817									CT	-	0.0 UNKN 14.6 BRWN FSND 22.6
6921819	7	Dec-91	636402	336.5	15.2	Fr	15.2 -1.2	8.2	32	1440	13.7	1350	WS	MOE# 6921819
	21		4877599									CT	DO	0.0 BRWN SAND 5.8 YLLW CLAY 8.2 GREY SILT 15.2 BRWN SAND 16.5

LABEL	CON	DATE	EASTING	ELEV	WTR FND	SCR TOP LEN	SWL	RATE	TIME	PL	DRILLER	TYPE	WELL NAME
LOT		mm-yr	NORTHING	masl	mbgl Qu	mbgl m	mbgl	L/min	min	mbgl	METHOD	STAT	DESCRIPTION OF MATERIALS
6922280	8 20	May-93	636791 4877588	333.8	27.7 Fr	28.7 -1.8	6.1	91	60	18.3	5459 CT	WS DO	MOE# 6922280 0.0 BRWN SAND SILT 5.2 BRWN CLAY SOFT 7.6 BRWN SAND CLAY 10.1 BRWN SAND SILT 21.3 GREY CLAY SOFT 27.7 GREY SAND FSND 30.5
6922281	8 20	Jun-93	636594 4877526	336.8			NR			5459			MOE# 6922281 0.0
6922367	8 19	Sep-93	636590 4876965	335.9	35.7 Fr	34.4 -1.2	7.0	136	60	30.5	1413 RA	WS DO	MOE# 6922367 0.0 BRWN SAND PKCD 3.7 BRWN GRVL SAND LOOS 4.6 GREY CLAY SOFT 7.0 GREY SAND CLAY SILT 23.5 GREY CLAY SILT SOFT 29.9 GREY SAND CLN FSND 35.7
6922603	8 21	Apr-94	637225 4877785	331.3	62.8 Fr	61.6 -1.2	13.7	45	120	57.9	4645 RC	WS DO	MOE# 6922603 0.0 BRWN SAND SILT LOOS 4.6 BRWN SILT CLAY SOFT 6.1 BRWN SAND SILT LOOS 16.8 GREY CLAY SILT SOFT 18.3 GREY SILT SAND SOFT 22.9 GREY CLAY SILT SOFT 25.0 GREY SILT SAND SOFT 44.2 BRWN FSND SILT LOOS 51.8 GREY SILT CLAY SOFT 54.9 GREY SILT SAND CLAY 59.4 BRWN GRVL SAND SILT 64.0 GREY SILT GRVL SAND 68.6 GREY CLAY SILT 76.2
6922821	8 21	Jun-94	637279 4877839	331.6	56.7 Fr	55.5 -1.2	10.4	23	180	51.8	4645 RC	WS DO	MOE# 6922821 0.0 BRWN FSND SILT 9.1 BRWN SILT CLAY FSND 13.7 BRWN SILT FSND 42.7 BRWN SILT FSND CLAY 45.7 GREY CLAY SILT SOFT 48.8 GREY CLAY SILT 54.9 BRWN GRVL SILT LOOS 56.4 GREY SILT CLAY GRVL 59.4 GREY SILT CLAY SAND 61.6
6922823	8 21	Jun-94	637225 4877785	331.3	63.4 Fr	62.2 -1.5	16.5	55	120	54.9	4645 RC	WS DO	MOE# 6922823 0.0 BRWN SAND SILT 4.6 BRWN CLAY SILT 6.1 BRWN SAND SILT 16.8 GREY CLAY SILT LYRD 18.9 GREY SILT SAND CLAY 25.9 GREY SILT SAND 51.8 GREY SILT CLAY 54.9 GREY SILT SAND CLAY 59.4 GREY SILT GRVL 61.6 GREY SAND GRVL SILT 64.0 GREY CLAY SILT SAND 65.5
6922824	8 21	Jun-94	637279 4877783	332.8			NR			4645		OW NU	MOE# 6922824 0.0 BLCK TPSSL 0.3 BRWN SILT SAND CLAY 1.8 BRWN SILT FSND 9.1
6922825	8 21	Jul-94	637279 4877839	331.6	82.3 Fr	81.1 -1.2	36.0	55	300	79.2	4645 RC	WS DO	MOE# 6922825 0.0 BLCK TPSSL 0.3 BRWN SILT SAND CLAY 1.8 BRWN SILT FSND 10.7 GREY CLAY SILT LYRD 16.8 GREY SILT FSND CLAY 51.8 GREY CLAY SILT SNDS 57.9 GREY SILT GRVL DRY 61.0 GREY CLAY GRVL SILT 70.1 GREY CLAY DNSE 71.6 GREY SILT SAND CMTD 76.2 GREY CLAY DNSE 79.2 BLCK GRVL SAND SILT 80.5 GREY SILT SAND CLAY 82.3

LABEL	CON	DATE	EASTING	ELEV	WTR FND	SCR TOP	LEN	SWL	RATE	TIME	PL	DRILLER	TYPE	WELL NAME
LOT		mm-yr	NORTHING	masl	mbgl	Qu	m	mbgl	L/min	min	mbgl	METHOD	STAT	DESCRIPTION OF MATERIALS
6923350	8	Aug-95	636723	335.9				4.9	45	20	8.5	6874	WS	MOE# 6923350
20			4877499									CT	DO	0.0 BRWN SAND CLN 8.5
6924057	8	Jul-97	638000	331.9				NR				5459	AB	MOE# 6924057
18			4876952									AB	NU	0.0
6924192	8	Dec-97	637917	328.0				NR				5459	-	MOE# 6924192
18			4876947									-	-	0.0
6924196	8	May-97	637908	328.9				NR				5459	AB	MOE# 6924196
18			4876982									-	DO	0.0
6924197	8	Dec-97	637970	331.0				NR				5459	AS	MOE# 6924197
18			4876956									-	-	0.0
6924337	8	Apr-98	637667	335.9				NR				5459	AB	MOE# 6924337
18			4876963									-	-	0.0
6924349	7	Apr-98	636926	333.8				NR				5459	AB	MOE# 6924349
20			4877627									-	-	0.0
6924352	8	Apr-98	637667	336.2				NR				5459	AB	MOE# 6924352
18			4877005									-	-	0.0
6924418	8	Jun-98	637698	337.4				NR				5459	AB	MOE# 6924418
18			4877030									-	-	0.0
6924421	8	May-98	636438	335.0				NR				5459	AB	MOE# 6924421
20			4877418									-	-	0.0
6924422	8	May-98	636438	335.0				NR				5459	AB	MOE# 6924422
20			4877418									-	-	0.0
6924477	8	Jun-98	636411	337.4				NR				5459	AB	MOE# 6924477
21			4877564									-	-	0.0
6924482	8	Jun-98	636864	333.1				NR				5459	AB	MOE# 6924482
20			4877617									-	-	0.0
6924590	8	Aug-98	637646	332.8				NR				5459	AB	MOE# 6924590
16			4876845									-	-	0.0
6924593	8	Aug-98	637436	335.0				NR				5459	AB	MOE# 6924593
21			4877810									-	-	0.0
6924606	8	Aug-98	637643	333.5				NR				5459	AB	MOE# 6924606
16			4876866									-	-	0.0
6924607	8	Aug-98	637373	328.3				NR				5459	AB	MOE# 6924607
16			4877052									-	-	0.0
6924655	8	Oct-98	637453	335.3				11.3	205	60	16.2	1413	WS	MOE# 6924655
20			4877608				16.8 -2.4					RA	DO	0.0 BRWN SAND PCKD 11.3 BRWN SAND WBRG CLN 19.2
6924724	8	Dec-98	636523	335.9				NR				5459	AB	MOE# 6924724
19			4877082									-	-	0.0
6924938	7	Jul-99	636398	337.7				NR				1413	AB	MOE# 6924938
21			4877589									-	-	0.0 GREY CLAY 0.3 GREY 9.4
6924939	7	Jul-99	636398	337.7				NR				1413	AB	MOE# 6924939
21			4877589									-	-	0.0 GREY CLAY 0.3 GREY 5.8

LABEL	CON	DATE	EASTING	ELEV	WTR FND	SCR TOP LEN	SWL	RATE	TIME	PL	DRILLER	TYPE	WELL NAME
LOT		mm-yr	NORTHING	masl	mbgl Qu	mbgl m	mbgl	L/min	min	mbgl	METHOD	STAT	DESCRIPTION OF MATERIALS
6926030	8	Sep-01	637597	333.8			NR			5459	-	AB	MOE# 6926030
	18		4876805									-	0.0
6930047		Aug-05	636472	335.9		2.4 -6.1	NR			6032		OW	MOE# 6930047 TAG#A005275
			4876987							BR		NU	0.0 BRWN SAND SLTY 8.5 BRWN SAND SLTY 8.5 BRWN SAND SLTY 8.5 BRWN SAND SLTY 8.5 BRWN SAND SLTY 8.5 BRWN SAND SLTY 8.5
6930078	7	Mar-06	636442	335.6		3.0 -3.0	NR			7147		OW	MOE# 6930078 TAG#A037568
	19		4877043							OTH		NU	0.0 BLCK TPSL 0.3 BRWN SAND SLTY 6.1
6930461		Jun-06	636471	335.9	3.7 Un	4.9 -1.5	NR			6607		OW	MOE# 6930461 TAG#A043888
			4876986							-		-	0.0 BRWN GRVL 0.6 BRWN SAND SILT 3.7 BRWN SAND SILT WBRG 6.1 BRWN SILT CLAY 6.4
6930462		Jun-06	636471	335.9	3.4 Un		NR			6607		AB	MOE# 6930462 TAG#A005275
			4876986							BR		-	0.0
6930721		Aug-06	636488	336.2	3.0 Un	1.5 -3.0	NR			6607		OW	MOE# 6930721 TAG#A046446
			4877032							-		-	0.0 BRWN FILL SAND 3.0 BRWN FILL SAND 4.6
7052907	7	Nov-07	636481	335.0		3.0 -3.0	NR			7147		OW	MOE# 7052907 TAG#A056419
	19		4876883							OTH		NU	0.0 BLCK TPSL 0.3 BRWN SAND 5.5 BRWN CLAY 6.1
7193230	8	Sep-12	637452	329.8			NR			4102		AB	MOE# 7193230
	16		4876994							-		-	0.0
7213031	8	Nov-13	636794	334.1			NR			5459		AB	MOE# 7213031
	20		4877246							-		NU	0.0
7217930		Feb-14	636607	335.3		6.1 -3.0	NR			7472		OW	MOE# 7217930 TAG#A161360
			4877817							BR		MO	0.0 BRWN TPSL LOOS 1.5 BRWN FSND PKCD 4.6 GREY FSND PKCD 9.1
7219787		Apr-14	636675	335.0			NR			7148		AB	MOE# 7219787
			4877340							-		-	0.0
7219788		Apr-14	636790	334.4			NR			7148		AB	MOE# 7219788
			4877278							-		-	0.0
7219789		Apr-14	636873	334.7			NR			7148		AB	MOE# 7219789
			4877365							-		-	0.0
7228778		Sep-14	636497	336.2			NR			6946		-	MOE# 7228778 TAG#A159028
			4877481							-		-	0.0
7240908		Apr-15	636440	335.0		3.0 -1.5	NR			7241		TH	MOE# 7240908 TAG#A180355
			4877388							RC		TH	0.0 BRWN SAND GRVL 3.7 BRWN FSND 4.6
7240909		Apr-15	636406	334.7		1.5 -1.5	NR			7241		-	MOE# 7240909 TAG#A179294
			4877363							DP		TH	0.0 BRWN SAND TPSL 1.5 BRWN FSND WBRG 3.0
7240910		Apr-15	636396	335.0		1.5 -1.5	NR			7241		-	MOE# 7240910 TAG#A180338
			4877423							DP		TH	0.0 BRWN SAND TPSL 1.5 BRWN FSND WBRG 3.0
7240911		Apr-15	636419	335.3		4.6 -1.5	NR			7241		TH	MOE# 7240911 TAG#A180340
			4877457							DP		TH	0.0 BRWN FSND 4.0 BRWN FSND WBRG 6.1
7240912		Apr-15	636405	335.0		4.6 -1.5	NR			7241		OW	MOE# 7240912 TAG#A180341
			4877444							DP		TH	0.0 BRWN FSND 4.0 BRWN FSND WBRG 6.1

LABEL	CON	DATE	EASTING	ELEV	WTR FND	SCR TOP LEN	SWL	RATE	TIME	PL	DRILLER	TYPE	WELL NAME
LOT		mm-yr	NORTHING	masl	mbgl Qu	mbgl m	mbgl	L/min	min	mbgl	METHOD	STAT	DESCRIPTION OF MATERIALS
7245058		Jun-15	636437 4877412	335.0		1.5 -3.0	NR				7241	AB TH	MOE# 7245058 TAG#A180355 0.0
7248168		Jul-15	636392 4877478	335.3			NR				6032	AB	MOE# 7248168 0.0
7256175		Dec-15	636410 4877336	335.0		12.2 -3.0	NR				6032	OW	MOE# 7256175 TAG#A194323 0.0 BRWN SAND 15.2
7257162		Dec-15	636404 4877459	335.0	5.2 Un	3.0 -3.0	NR				7360	OW	MOE# 7257162 TAG#A194001 0.0 FILL 1.5 SAND 3.0 SAND WBRG 4.6 SAND WBRG 6.1
7261440		Apr-15	637023 4877197	335.0			NR				7383	-	MOE# 7261440 TAG#A179096 0.0
7270016		May-16	637238 4877150	329.5		3.0 -3.0	NR				7241	-	MOE# 7270016 TAG#A195256 0.0 BRWN SAND SILT DNSE 6.1
7270017		May-16	637281 4877240	330.4		3.0 -3.0	NR				7241	-	MOE# 7270017 TAG#A195257 0.0 BRWN SAND SILT DNSE 6.1
7270018		May-16	637233 4877521	332.8		3.0 -3.0	NR				7241	-	MOE# 7270018 TAG#A195258 0.0 BRWN SAND SILT DNSE 6.1
7270019		May-16	637153 4877287	329.8		3.0 -3.0	NR				7241	-	MOE# 7270019 TAG#A195259 0.0 BRWN SAND SILT DNSE 6.1
7270020		May-16	636884 4877404	335.0		2.1 -3.0	NR				7241	-	MOE# 7270020 TAG#A195260 0.0 BRWN SAND SILT DNSE 5.2
7270021		May-16	636948 4877199	334.7		3.0 -3.0	NR				7241	-	MOE# 7270021 TAG#A195261 0.0 BRWN SAND SILT DNSE 6.1
7313503		Jun-18	636614 4877816	NR			NR				7610	-	MOE# 7313503 TAG#A161360 0.0
7313504		Jun-18	636537 4877782	NR			NR				7610	-	MOE# 7313504 TAG#A231668 0.0
7313505		Jun-18	636534 4877782	NR			NR				7610	-	MOE# 7313505 0.0
7328902	7	Aug-18	636399 4877449	NR			NR				7626	-	MOE# 7328902 TAG#A243079 0.0
7334264	20	May-19	636476 4876937	NR		1.5 -3.0	NR				7323	TH	MOE# 7334264 TAG#A236158 0.0 BRWN SAND WBRG 4.6 GREY SILT CLAY WBRG 6.1
GSC5801		Jan-01	637266 4877120	329.8			NR				-	-	MOE# GSC5801 0.0 SAND SLTY 0.9
GSC5802		Jan-01	636716 4877169	335.0			NR				-	-	MOE# GSC5802 0.0 SAND SLTY 0.9
YPD2362		Mar-98	636805 4876859	334.1			NR				-	-	MOE# YPD2362 0.0 TPSL 0.3 BRWN FSND SILTY LOOS 2.4 GREY SAND 4.6 BRWN CLAY SILTY FSND 6.1 BRWN FSND SILT DNSE 6.7

LABEL	CON	DATE	EASTING	ELEV	WTR	FND	SCR	TOP	LEN	SWL	RATE	TIME	PL	DRILLER	TYPE	WELL NAME
LOT	mm-yr	NORTHING	masl	mbgl	Qu	mbgl	m	m	m	mbgl	L/min	min	mbgl	METHOD	STAT	DESCRIPTION OF MATERIALS
YPD2961	Mar-98	636610 4876959	335.6	NR												MOE# YPD2961 0.0 TPSL 0.3 BRWN FSND SILT 2.4 BRWN SAND SLTY 4.6 BRWN CLAY SLTY 6.1 BRWN FSND SILT DNSE 6.7
YPD5077	Mar-98	636986 4877094	334.4	NR												MOE# YPD5077 0.0 TPSL 0.3 BRWN SAND SLTY 3.0 BRWN SAND SLTY 4.9 BRWN SILT CLYY HARD 6.7
YPD5177	Mar-98	636754 4877131	335.0	NR												MOE# YPD5177 0.0 BRWN SAND SILT 0.9 BRWN SAND SILT 1.5 SILT CLAY 1.8 BRWN SAND SILT 4.0 BRWN CLAY SILT GRVL 4.9 BRWN SAND SILT 6.1 BRWN CLAY SILT GRVL 6.7

QUALITY:

Fr Fresh
Mn Mineral
Sa Salty
Su Sulphur
-- Unrecorded

TYPE:

WS Water Supply
AQ Abandoned Quality
AS Abandoned Supply
AB Abandonment Record
TH Test Hole or Observation

USE:

CO Commercial
DO Domestic
MU Municipal
PU Public
ST Stock

METHOD :

CT Cable Tool
JT Jetting
RC Rotary Conventional
RA Rotary Air
BR Boring

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