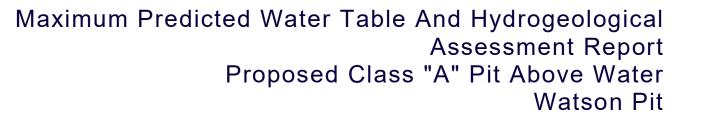
Prepared By:



WWW.GMBLUEPLAN.CA



311804 Highway 6, Mt. Forest Municipality of West Grey Teeswater Concrete Ltd.

GMBP File: 218045-1

November 2023





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311804 HIGHWAY 6, MT. FOREST

MAXIMUM PREDICTED WATER TABLE AND HYDROGEOLOGICAL ASSESSMENT REPORT

PROPOSED CLASS 'A' PIT ABOVE WATER

NOVEMBER 2023

GMBP FILE: 218045-1

1. INTRODUCTION

GM BluePlan Engineering Limited (GMBP) was retained by Teeswater Concrete Ltd. to conduct a Maximum Predicted Water Table and Hydrogeological Assessment Report to support the application for a proposed Class "A" Pit above water. The proposed aggregate pit is situated on the west side of Highway 6 and south of Grey Road 9, approximately 6.5 km northwest of the Town of Mt. Forest. The property is located on Lot 19 and 20, Concession 1W of Owen Sound Road, and on the eastern portion of Lot 46, Concession 2W of Owen Sound Road in the former Township of Normanby, Municipality of West Grey. The civic address of the subject property is 311804 Highway 6, Mt. Forest. The location of the Site is shown on Figure 1.

This Hydrogeological Study is being prepared to characterize the geology, the potential groundwater occurrence, and the elevation of the water table within the proposed extraction area in order to support development and licensing under the Aggregate Resources Act (ARA). Additionally, this Study investigates the potential adverse impacts that the proposed pit may have on the local groundwater and surface water resources in the area. It is our understanding that the proposed pit operations will be conducted to a maximum depth of 1.5 metres above the "high" groundwater table elevation.

The subject property encompasses approximately 133.3 ha (329.4 acres) and is used primarily for agricultural purposes. Two residential dwellings are situated on the southeastern portion and eastern portions of the property, respectively. Additionally, a number of auxiliary agricultural buildings are also present along the eastern property boundary, adjacent to the western side of the Highway 6 Right-Of-Way (ROW). All of these structures, with the exception of the residential building in the southeastern portion of the property, are proposed to be removed prior to aggregate extraction operations on the Site.

The western portion of the property (i.e. the eastern portion of Lot 46, Concession 2W of Owen Sound Road) is currently licenced under ALPS 5110 as a Class "A" licenced aggregate pit. It is noted that this existing pit licence was issued in February 2014, but had not undergone any aggregate extraction operations between 2014 and 2023. Teeswater Concrete Ltd. commenced aggregate extraction in this licenced area in summer of 2023.

The majority of the property currently consists of agricultural fields consisting of crops and a naturalized treed and vegetated areas to the south in the vicinity of, and associated with, the Letterbreen Bog. Two small depressions are present adjacent to the eastern property boundary and the Highway 6 ROW. These depressions were observed to have a small amount of water in them during periods of high groundwater elevation (i.e. spring freshet) but are observed to be generally dry during periods of the year with low water table elevations (i.e. summer and fall). The water levels in these locations are considered to be generally consistent with fluctuating groundwater table elevations.



The ground surface across the Site is generally hummocky with low, rolling hills. The elevation moderately declines in the southern portion of the property toward the Letterbreen Bog and to the east toward the Highway 6 ROW.

A gravel access roadway currently extends from Highway 6 in the southeastern portion of the property to the existing licenced gravel pit area on the western portion of the Site.

The Site boundaries and features are shown on Figure 2.

2. METHODOLOGY

2.1 Background Data Collection/Review

Available information from the following sources was reviewed to support the site-specific information gathered from field investigations to prepare the hydrogeological assessment:

- Ministry of the Environment Conservation and Parks (MECP) well records,
- MECP publications, geologic publications,
- Review of the Grey and Bruce Counties Groundwater Study (Waterloo Hydrogeologic, July 2003), and pertinent maps
- Review of the Municipal Water Supply Wellhead Protection Areas (WHPAs) established through the Grey and Bruce Counties Groundwater Study, completed in July 2003 and prepared by Waterloo Hydrogeologic Inc.

2.2 Field Investigations

2.2.1 Monitoring Well Installations and Water Level Monitoring

In order to provide more certainty regarding the on-site groundwater elevations and flow direction, monitoring wells were installed in six (6) locations, with four (4) of the locations consisting of a shallow and deep well. These wells were installed between March 9 to 10, and March 21, 2023 by London Soil Test Limited (LST) with a track-mounted drill under the direction of GMBP, to depths of between 7.4 and 18.8 mbgs. Borehole logs are provided in Appendix B.

These monitoring wells have been used to measure the groundwater elevations and determine the seasonal "high" water levels across with the property. The water levels at each of the monitoring locations were measured by GMBP personnel during a total of three (3) site visits between March and October 2023.

During the site visits, a review of the site conditions, including the surface topography, natural features, surface water features, and the characteristics of the neighboring properties (i.e. surrounding land use) were noted. In addition, the potential for the presence of springs or groundwater seeps was investigated.

On April 25, 2023, the monitoring well elevations and topographical elevations across the Site were surveyed by GMBP using a Trimble GPS and drone survey, respectively, in order to provide elevation and spatial data.



3. REVIEW OF BACKGROUND INFORMATION

3.1 Physiography and Geology

Based on our review, the site is located within the physiographic region of the Horseshoe Moraines. In general, the Horseshoe Moraines are characterized by drumlinized till plains, kame moraines, and outwash deposits (Chapman and Putnam, 1984).

The soils on the subject site are identified as well sorted gravelly outwash of the Burford series (Soil Survey Report No. 17). The physiographic mapping (Map 2225) indicates that the subject property is located in an area of kame moraines in the western, northern, and central portions of the Site, with the eastern and southernmost portions of the Site consisting of glacial outwash deposits. This is consistent with the Ontario Geological Survey's Surficial Geology of Southern Ontario dataset, which identifies the majority of the property as glaciofluvial ice-contact deposits and the southern and eastern portions of the property as glaciofluvial outwash deposits.

The bedrock underlying the Site is reported to consist of dolostone of the Salina formation. Based on the mapping provided by the Grey and Bruce Groundwater Study and an analysis of MECP registered water well logs in the area, the depth to bedrock in the vicinity of the subject property is reported to be greater than 71 meters below ground surface (mbgs) (i.e. 236 feet bgs).

As discussed, the ground surface across the Site is generally hummocky with low, rolling hills. The elevation moderately declines in the southern portion of the property, south of the access roadway, toward the Letterbreen Bog and to the east toward the Highway 6 ROW.

3.2 Conservation Authority and Screening Areas

The site is situated within the boundary of the Saugeen Valley Conservation Authority (SVCA). From a review of the site with respect to regulated areas, the following is noted:

• An approximate 30 metre buffer associated with the wetland boundary of the Letterbreen Bog on the property is considered to be a screening area under Ontario Regulation 169/06.

The SVCA mapping is presented in Appendix "D".

Additionally, the Grey County Official Plan (GCOP) identifies a slightly smaller area than the noted SVCA screening area as *Hazard Lands*, as per Schedule "A" of the official plan, and are subject to the associated developmental restrictions. It is noted that this designation identifies lands that "can be impacted by flooding, erosion, and/or dynamic beach hazards or have poor drainage, or any other physical condition that is severe enough to pose a risk for the occupant, property damage, or social disruption if developed."

It is of particular note that the seasonal depressions on the eastern property boundary that are subject to seasonal ponding are not identified in either the GCOP or by the Conservation Authority.

The Grey County Official Plan mapping is presented in Appendix "E".



3.3 Hydrogeology

The Grey and Bruce Counties Groundwater Study (Waterloo Hydrogeologic, 2003), existing water well logs, and observations during on-site drilling provide an overview of the regional setting and more general information about the site and the surrounding area. The pertinent findings are summarized as follows:

- The depth to bedrock in the area is estimated to be greater than 40 metres, with a few bedrock wells to the north of the Site where bedrock was encountered at depths of between 44 and 49 metres;
- The onsite well located in the southeastern portion of the Site was reported to have overburden greater than 72 metres in thickness;
- The water table elevation in the shallow overburden has been measured to be between approximately 395.0m in the southern portion of the property adjacent to the Letterbreen Bog and descending in a generally northward direction to an elevation of approximately 389.0m in the northern portion of the Site based on March 22, 2023 measurements, which are considered to be representative of the annual "high" groundwater table elevation;
- The shallow soils (i.e. upper 4 to 5 metres) were observed to consist of primarily sand and gravel with varying cobble and boulder content across the majority of the Site. This is with the exception of the southeastern and southern portions of the property. The shallow overburden in this location was observed to generally consist of interbedded layers of silt & sand and sand & gravel. Across the Site, soils below approximately 5 mbgs generally consist of increased interbeds of generally silt and fine sand and sand and gravel of varying thicknesses.
- A hard, silt till layer was encountered in MW-1 and 2 at depths of approximately 15m and 5.2m, respectively. This till was not encountered in any of the other boreholes advanced for the installation of the monitoring well network.
- The seasonal ponding areas in the central portion of the Site are inferred to be associated with the shallow water table elevation due to the presence of coarse textured soils across the Site and the absence of a surface water inlet or outlet from these areas.

It is noted that a report was prepared by GMBP for Teeswater Concrete Ltd. titled, "Scoped Aggregate Resource Assessment, Watson Pit", dated February 17, 2023, which provides more details on the nature and occurrence of the overburden materials across the Site.

To confirm the site-specific geology, a review of the Ministry of the Environment (MECP) well records for the site and surrounding area was conducted. MECP records were utilized from the MECPs online database (last updated October 18, 2021). A copy of the pertinent MECP well records is enclosed in Appendix A and a summary of the results of the well search within a 500 m radius of the subject site is provided in Table 1.

Eleven (11) well records were found within the 500 m well search radius, including the onsite well on the southeastern portion of the property. Each well location correlates with known residential/agricultural or commercial properties in the vicinity of the Site.

Shallow groundwater flow is generally expected to mimic topography and usually flows towards surface water features. However, based on measured shallow groundwater table elevations across the Site, it is inferred that the local groundwater on the Site descends and flows in a northerly direction, away from the southern Letterbreen Bog.



From field observations and groundwater elevation data collected, the occurrence of surface water on the Site (i.e. in the Letterbreen Bog and the eastern seasonal ponding areas) is expected to be approximately consistent with the occurrence of the groundwater elevation. As noted, the highest measured elevation of the groundwater across the proposed extraction area of the Site is inferred to be between 395m in the southern portion of the Site and 389m in the northern portion of the property, based on the March 22, 2023 measurements. This is presented in Figure 3 and the associated cross-sections are presented in Figures 4A and 4B.

The more regional, or bedrock flow patterns are expected to be in a northwesterly direction, towards Lake Huron, which is consistent with the trend of the overall catchment area.

4. FIELD INVESTIGATIONS

4.1 Monitoring Well Installations

As discussed, between March 8 and 21, a series of ten (10) monitoring wells (MW-1S/D, MW-2, MW-3, MW-4S/D, MW-5S/D, and MW-6S/D) were installed across the subject property. Borehole logs, including monitoring well installation details, are provided in Appendix B.

The water levels at each of the monitoring locations were measured by GMBP personnel during a total of three site visits between March 2023 and October 2023. A summary of the water level elevations measured to date is provided in Table 2.

Based on the water level elevations measured, the localized groundwater flow direction across the site is observed to be in a northerly direction, away from the Letterbreen Bog. This is expected to be influenced by the coarse-textured nature of the overburden soils onsite.

5. ESTIMATED WATER TABLE ELEVATION

Based on the geologic mapping, MECP well records, and Grey and Bruce Counties Groundwater Study, the high water table elevation in the area is generally estimated to be in the range of 395 to 389m, which corresponds to a water table between approximately 1.4 and 13.8 metres below the ground surface. This is generally consistent with the site topography (i.e. elevated western and central areas), water level elevations measured from the monitoring wells and surface water elevations measured on the Site.

Based on the water level elevations measured, the localized major groundwater flow direction across the Site is expected to be to the north, influenced by the Beatty Saugeen River, which is situated approximately 2.0 kilometres north of the subject property at its closest point and flows in a northwesterly direction.

Based on the groundwater conditions, timing of the freshet, and precipitation events, the water level measurements collected, the "high" groundwater table elevations are expected to be consistent with the water levels measured on March 22, 2023 It is noted that these measurements were made following a period of significant snow melt and precipitation.

It is recommended that the monitoring wells continue to be monitoring during the pit application process in order to ensure the collection of data that is reflective of the "high" water table elevation.



As discussed, in the portion of the site where extraction is proposed, the high water table is considered to decline from approximately 395.0m in the southern portion of the property adjacent to the Letterbreen Bog and descending in a generally northward direction to an elevation of approximately 389.0m in the northern portion of the Site, as shown in Figure 3. Therefore, in order to maintain the 1.5 m separation from the high water table, based on the proposed limits of onsite extraction, the maximum depth of the pit would be approximately 396.5m the southern portion of the area of extraction and sloping downward to approximately 390.5 masl in the northern-most portion of the proposed extraction area. The expected "high" water table and corresponding proposed maximum pit depths are shown on the Figures 4A and 4B.

6. IMPACT ASSESSMENT

6.1 Impacts to Local Groundwater and Groundwater Resources

With respect to impacts to groundwater resources from development activities, these can often be separated into: 1) quality, or 2) quantity.

With respect to quality, potential changes to groundwater are not typically caused by excavation works in overburden above the water table.

The moving and stockpiling of native/existing soils may cause disruption at surface, but does not typically lead to the release of compounds to the subsurface. With respect to the on-site equipment, a potential for environmental impact may be associated with petroleum hydrocarbons (fuel) used in on-site equipment. Standard best management practices and standards under the Aggregate Resources Act require the implementation of a spill prevention and contingencies measures plan, mitigating this risk.

With respect to quantity, the proposed bottom contours of the aggregate pit have been selected to prevent alteration to the groundwater flow regime. As discussed, the proposed bottom contours are a minimum of 1.5 metres above the estimated "high" water table elevation. Therefore, pit operations will not include dewatering or groundwater diversion. Thus, no impacts to groundwater are anticipated by mining aggregate above the water table. Groundwater will not be diverted or altered during the aggregate extraction process. Since there are no proposed interactions with the water table or surface water features, the overall water budget, pre- to post-development, is expected to remain unchanged.

Regardless of the fact that impacts are not expected, a further investigation of potential receptors has been conducted as part of this assessment. A review of MECP well records for the site and surrounding area was conducted and indicated ten (10) offsite domestic supply wells within 500m of the subject property. Additionally, from a review of surrounding properties, it is expected that an additional seven (7) properties are likely to have groundwater supply wells that are currently being used. Supply wells not documented in the MECP water well database are expected to be located at the following addresses:

- 312043 Highway 6 Located approximately 500 metres north and hydraulically downgradient of the property boundary;
- 312022 Highway 6 Allan Park Road Located approximately 480 metres north and hydraulically downgradient of the property boundary;
- 122775 Grey Road 9 Located approximately 75 metres north and hydraulically downgradient of the property boundary;



- 122769 Grey Road 9 Located approximately 100 metres north and hydraulically downgradient of the property boundary;
- 122763 Grey Road 9 Located approximately 200 metres northwest and hydraulically downgradient of the property boundary;
- 311847 Highway 6 Located approximately 80 metres east, across the Highway 6 ROW, and hydraulically cross-gradient from the property boundary.
- 311827 Highway 6 Located approximately 120 metres east, across the Highway 6 ROW, and hydraulically cross-gradient from the property boundary.

Copies of the pertinent MECP well records are enclosed in Appendix A and a summary of the results of the well search within 500 m is provided as Table 1, which includes a summary of both the MECP well record locations as well as those properties inferred to have a water supply well.

As noted, ten well records were identified within a 500 m radius of the property, with seven additional wells inferred to exist based on the presence of developed properties. Although the MECP well records indicate that the majority of documented wells within 500 metres are overburden wells, it was reported that each of these wells are screened in a confined layer underlying approximately 3 to 37 metres of fine-textured clay/silt soils that would be expected to effectively act as an aquitard layer. This aquitard is expected to reduce the potential for surface water/activity influences to the groundwater quantity and quality in each of these water supply wells.

It is noted that the lands south and southeast, and hydraulically upgradient of the subject property, are largely undeveloped and are designated as Hazard Lands in the Grey County Official Plan and SVCA screening areas under Ontario Regulation 169/06. These development limitations are associated with the inferred 100 year flood levels of the Letterbreen Bog. As such, the Letterbreen Bog and any developed properties south or southeast, and hydraulically upgradient of the Site are expected to be hydraulically separated and upgradient from the Site.

Based on the proposed extraction above the water table elevation and the fact that water quality is not expected to be altered due to proposed operations, it is reasonable to expect that the proposed aggregate extraction would not impact the groundwater supply resources in the area.

6.2 Municipal Wells

6.2.1 Municipal Wells - Regulatory Setting

The Clean Water Act (CWA) was established in 2006 to protect and to ensure the quality and sustainability of municipal supplies of drinking water sources within the province. A focus of the CWA is the preparation of locally developed source protection plans and vulnerability assessments which can then be used to identify *threats* to the municipal wells. Under the CWA, a drinking water threat is defined as *an activity or condition that adversely affects or has the potential to adversely affect the quality or quantity of any water that is or may be used as a source of drinking water, and includes an activity or condition that is prescribed by the regulations as a drinking water threat.*

Based on a review of mapping, the site is not located within a regulated area, such as well head protection zone or intake protection zone. The nearest areas regulated under the CWA are located greater than 7.0 km away and would have no bearing on this development.



6.3 **Potential Interference with Surface Water Resources**

6.3.1 Letterbreen Bog

As discussed, the northerly margin of the Letterbreen Bog is situated in the southern portion of the property. Based on our onsite groundwater elevation measurements, it is inferred that the surface water elevation in the bog is generally consistent with the water table elevation. Further, it has been determined that the potentiometric surface across the Site declines in a northerly direction, driving shallow groundwater flow towards the north, and away from the Letterbreen Bog. This northerly groundwater flow is expected to significantly reduce the potential for negative impacts to the water balance of the bog.

In order to reduce the potential for impacts to this feature, a setback of 30 metres from the wetland's edge has been established for aggregate extraction. The edge of the wetland was determined by Ken Dance of Dance Environmental Inc. (the ecological consultant for this application) and was subsequently surveyed by GMBP personnel.

The proposed onsite pit operations are required to have a setback from the areas of the property designated as Hazard Lands as part of the Grey County Official Plan. It is noted that the SVCA regulated screening area extends approximately 50 to 100 metres beyond the noted Hazard Land boundary. It is our understanding that development within the area designated as an SVCA screening area is not prohibited as long as suitable consultation with the SVCA has been conducted and written permissions or permits (if required) have been obtained. It is our understanding that Teeswater Concrete Ltd. has already undertaken pre-consultation discussions with SVCA personnel.

It is of particular note that the proposed operations are to be above the water table. No dewatering or water diversion will take place onsite as part of aggregate extraction operations. Based on the occurrence of coarse-grained soils (i.e., the sand and gravel) below the groundwater table, the pre- to post-development groundwater flows are expected remain similar to the present conditions. Considering both the water budget and flow direction is expected to remain unchanged from pre-extraction to post-extraction when appropriate setback distances are maintained, no impacts to this area is anticipated.

6.3.2 Surface Water – Quality

The proposed licensed area is expected to be located at least 30 metres from the lands designated as *Hazard Land* in the GCOP and the limits of the observed wetland, as marked by Ken Dance.

Based on the required setback from both the boundary of the Letterbreen Bog, the northerly groundwater flow direction, as well as the implementation of best management practices for sediment and run-off control, no impacts to these surface water features are anticipated.



Based on the proposed pit activities, the primary quality concerns relate to the potential degradation of water quality through:

- Increased sediment/suspended solids loading, and
- Increased temperature.
 - With respect to increased sediment and/or turbidity, this is caused through mobilization of finegrained silt and clay sized soil particles (fines). In this particular scenario the following mechanisms will act to prevent fines:
- The distance and low topographic relief between the pit activities and the Letterbreen Bog will act as a buffer.

Potential impacts to water temperature are not considered to be an issue between pre- and post-development since:

- No surface water ponding is proposed/expected to occur in the proposed areas of extraction,
- Equal infiltration to the subsurface will continue post-development.

Based on proposed extraction to the water table, no water ponding (nor diversion) would occur. During aggregate pit development, precipitation would continue to infiltrate. As such, there is no increased potential for warming of groundwater recharging to the shallow system in the vicinity of the aggregate pit.

The Pit operations will include a spills response plan, which includes training for the proper and safe use, handling, and storage of fuel or other potential contaminants. All spills or releases of contaminants are to be reported immediately to the MECP Spills Action Centre. Further, a spills response plan will be posted onsite at all times.

6.3.3 Surface Water– Quantity

The surface water quantity is expected to remain the same pre- and post-development since:

• the surface water features, including outlet elevations and controls, are not to be adjusted as part of the pit development,

To mitigate potential impacts to water quantity we recommend the following mitigative measure:

• To generally maintain surface water flows to the same low-lying locations, sloping of the restored grades to maintain similar catchment areas (pre- and post-development) shall be conducted.



7. SUMMARY OF FINDINGS

The purpose of this Maximum Predicted Water Table Elevation and Hydrogeological Assessment Report is to assess the hydrogeological information available in the vicinity of the subject property to characterize the geology, potential groundwater occurrence, and the inferred elevation of the water table within the proposed extraction area. Additionally, this study investigates the potential adverse Impacts the pit may have on the local groundwater and surface water resources.

Based on the geologic mapping, MECP well records, Grey and Bruce Counties Groundwater Study, and on the site-specific investigations completed to date, it was observed that shallow groundwater flows in a generally northerly direction across the Site. Regional groundwater flow is expected to be generally influenced by the Beatty Saugeen River, located approximately 2 kilometres north of the Site. From these observations, based on the proposed pit above groundwater, the maximum elevation of the floor of the quarry would be controlled by the inferred high groundwater elevations.

Currently, the "high" water levels at the site have been estimated to be 395m the southern portion of the property and sloping to approximately 389m in the northern portion of the property (i.e. MW-3). Therefore, to maintain the 1.5 m separation, and based on the proposed limits of onsite extraction, the maximum depth of the pit would be 396.5m the southern portion of the proposed extraction area and sloping to 390.5 masl in the northern portion of the proposed extraction area and sloping to approximate to be measured during the application process so that direct measurement of the "high" water level can be made, and the pit floor elevation be updated accordingly.

Based on the proposed extraction of aggregate to depths associated with the high water table elevation with no proposed dewatering or water diversion, and assuming that minimum setback distances are maintained for the sensitive features of the property (as identified and recommended by the Natural Environment Technical Report), it is reasonable to expect that the proposed aggregate extraction would not impact the local water supply wells in the area, surface water features, or associated ecological receptors in the area.

Based on this review, the development standards developed under the ARA are considered to be sufficient to protect the local water resources.



8. QUALIFICATIONS OF ASSESSORS

The Hydrogeological Investigation was completed by Mr. Corbin Sweet, H.B.Sc., P.Geo., and Mr. Matthew Nelson, P.Geo., P.Eng., M.Sc. of GMBP in consultation with applicant.

Mr. Corbin Sweet, H.B.Sc., P.Geo. has an honours B.Sc. degree in Earth Sciences (Geology) from the University of Waterloo and a diploma in Earth Resources from Sir Sandford Fleming College. He has over seven years of experience conducting numerous hydrogeological investigations and relevant public and agency consultation in support of pit and quarry ARA applications resulting in successful licences issued to applicants. He is also a member of the Professional Geoscientists of Ontario (PGO).

Mr. Matthew Nelson, P.Geo., P.Eng., M.Sc. is an Environmental Engineer / Hydrogeologist with over sixteen years of experience with hydrogeological investigations in support of pit and quarry ARA applications and associated consultation, resulting in successful licences issued to applicants. He is also a member of the Professional Geoscientists of Ontario (PGO) and Professional Engineers of Ontario (PEO).

All of which is respectfully submitted,

GM BLUEPLAN ENGINEERING LIMITED

Per:

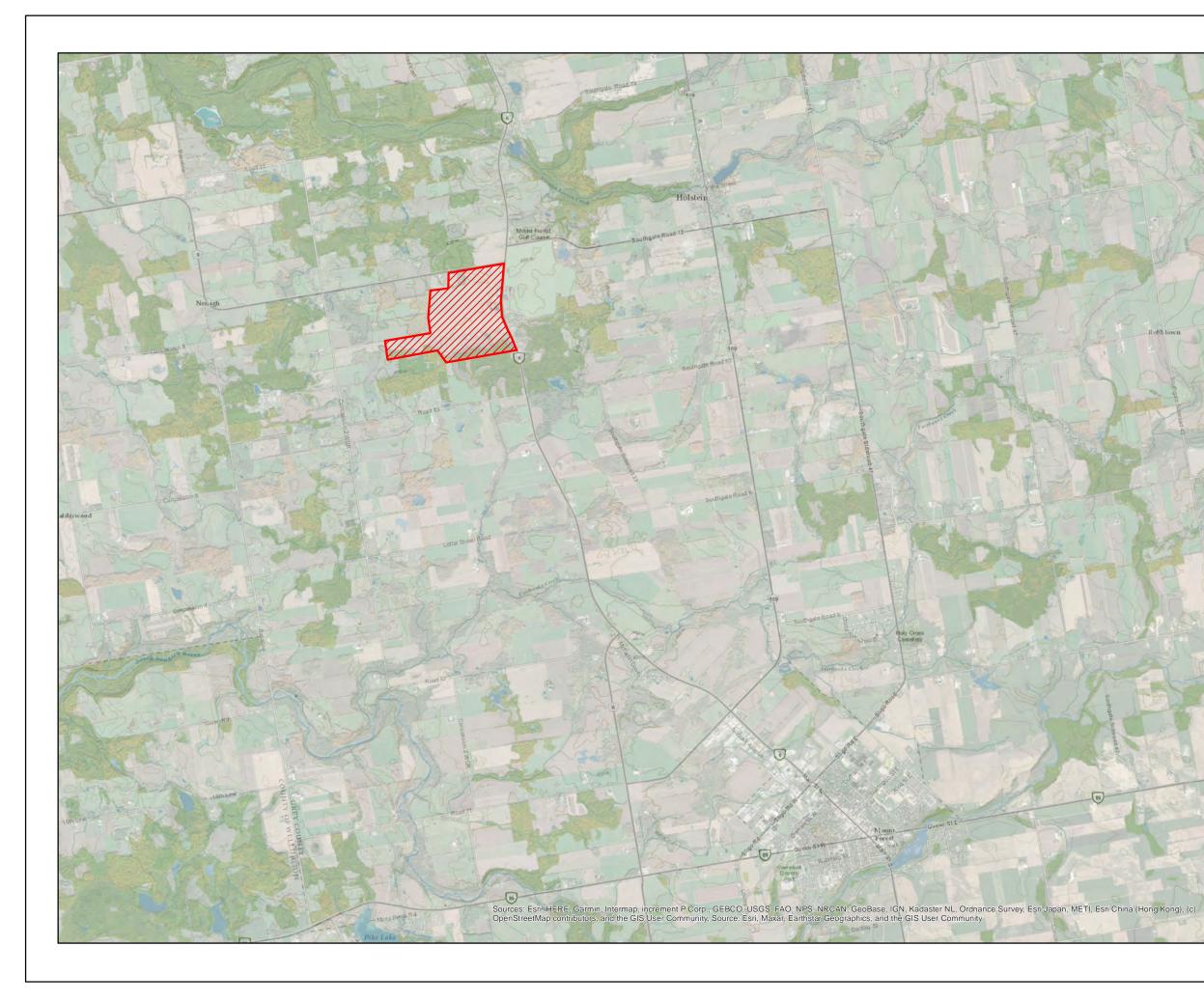
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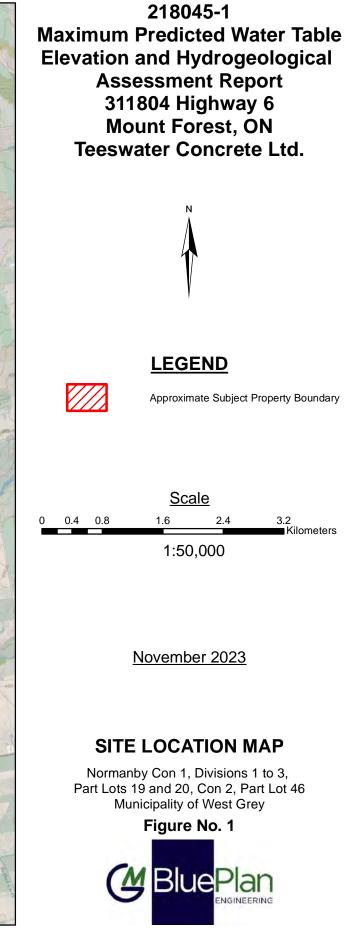
C.J. Sweet, H.B.Sc., P.Geo. CJS/kd

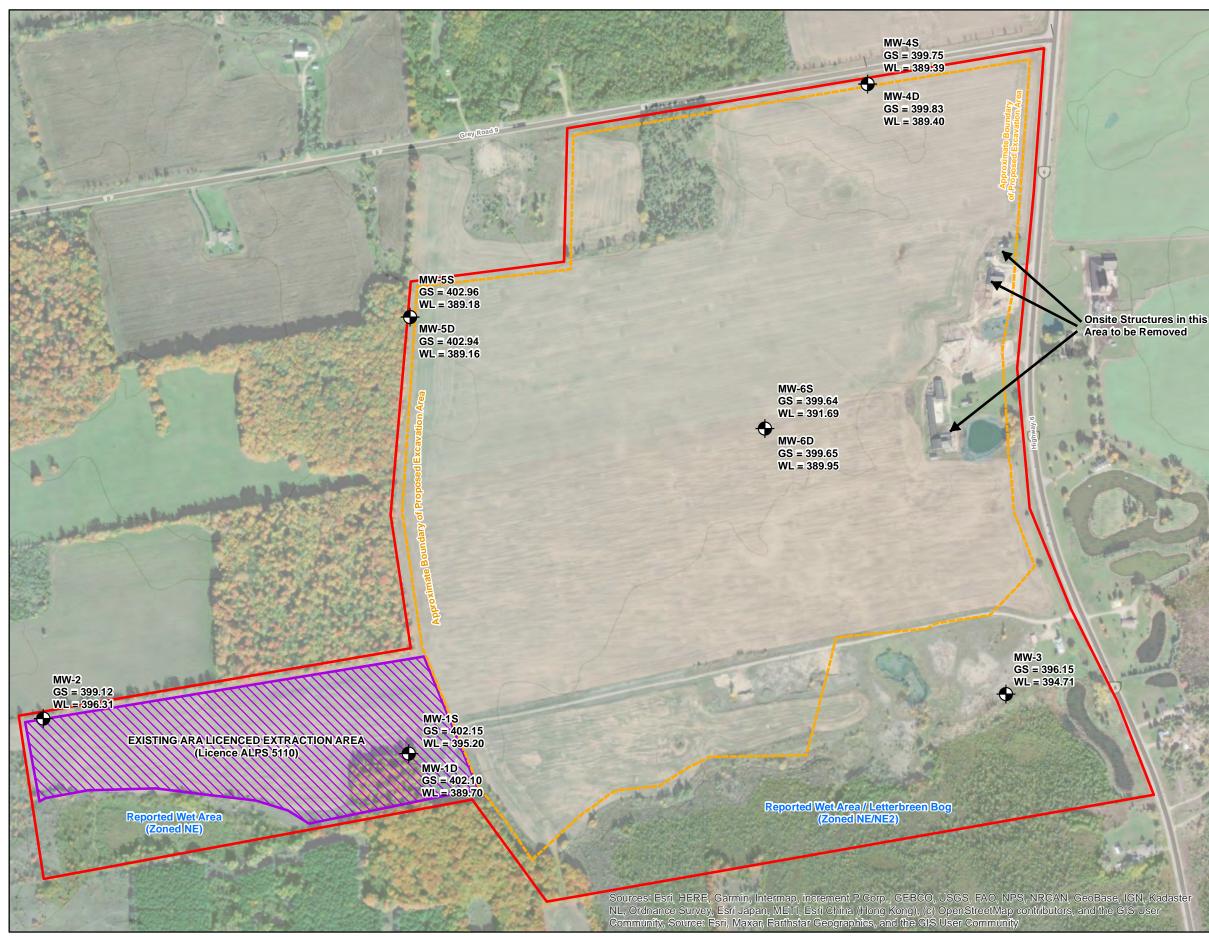
Per:

Matthew Nelson, M.Sc. P. Eng. P. Geo.

FIGURES:







Notes: - Proposed extraction area is set back 15 metres from property boundaries and treelines, 30 metres from the boundaries adjacent to Highway 6, and 30 metres from onsite water features (i.e. southern Letterbreen Bog). - Interpreted high groundwater elevations are from measurements taken on March 22, 2023.

218045-1 **Maximum Predicted Water Table Elevation and Hydrogeological Assessment Report** 311804 Highway 6 Mount Forest, ON **Teeswater Concrete Ltd.**



LEGEND

Approximate Property Boundary and Proposed Licenced Boundary

Existing ARA Licenced Extraction Area (Licence ALPS 5110)

Total Proposed Above the Water Table Extraction Boundary (Approximately 88.6 ha)

Groundwater Monitoring Well Location (WLs from March 22, 2023)

			<u>Scale</u>	2	
0	50	100	200	300	400
					Meters

1:6,000

November 2023

SITE LAYOUT AND MONITORING WELL LOCATION PLAN

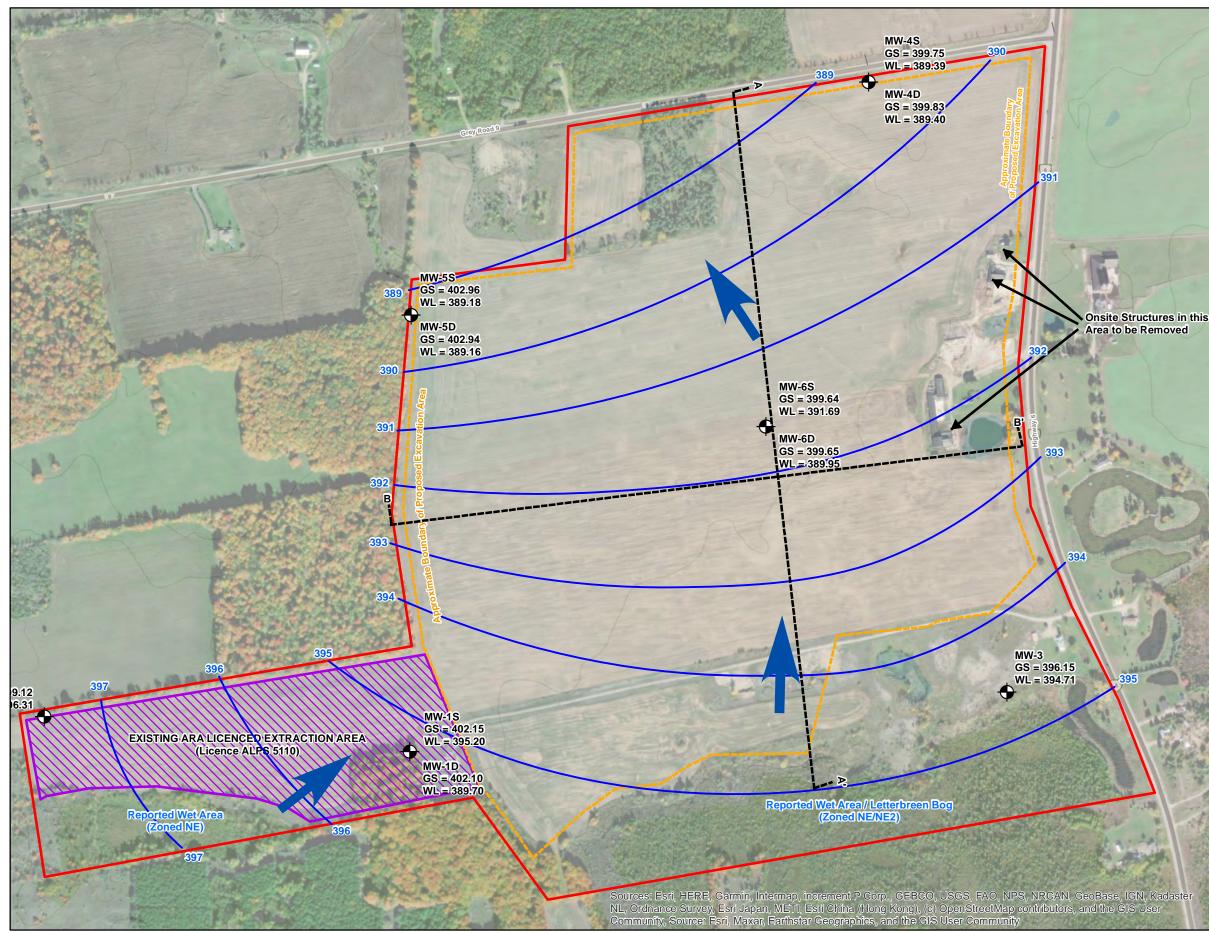
Normanby Con 1, Divisions 1 to 3, Part Lots 19 and 20, Con 2, Part Lot 46 Municipality of West Grey

Figure No. 2

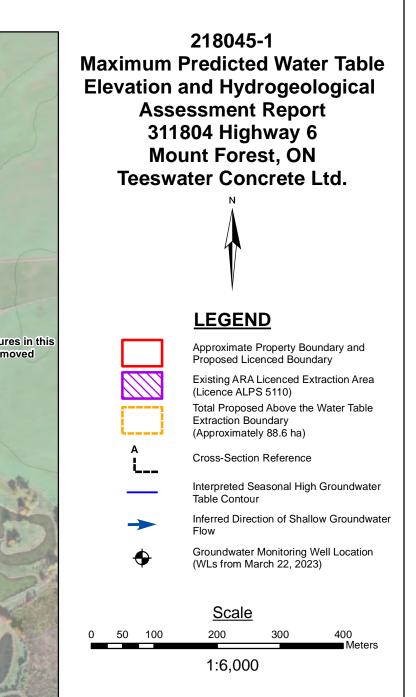




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Notes: - Proposed extraction area is set back 15 metres from property boundaries and treelines, 30 metres from the boundaries adjacent to Highway 6, and 30 metres from onsite water features (i.e. southern Letterbreen Bog). - Interpreted high groundwater elevations are from measurements taken on March 22, 2023.



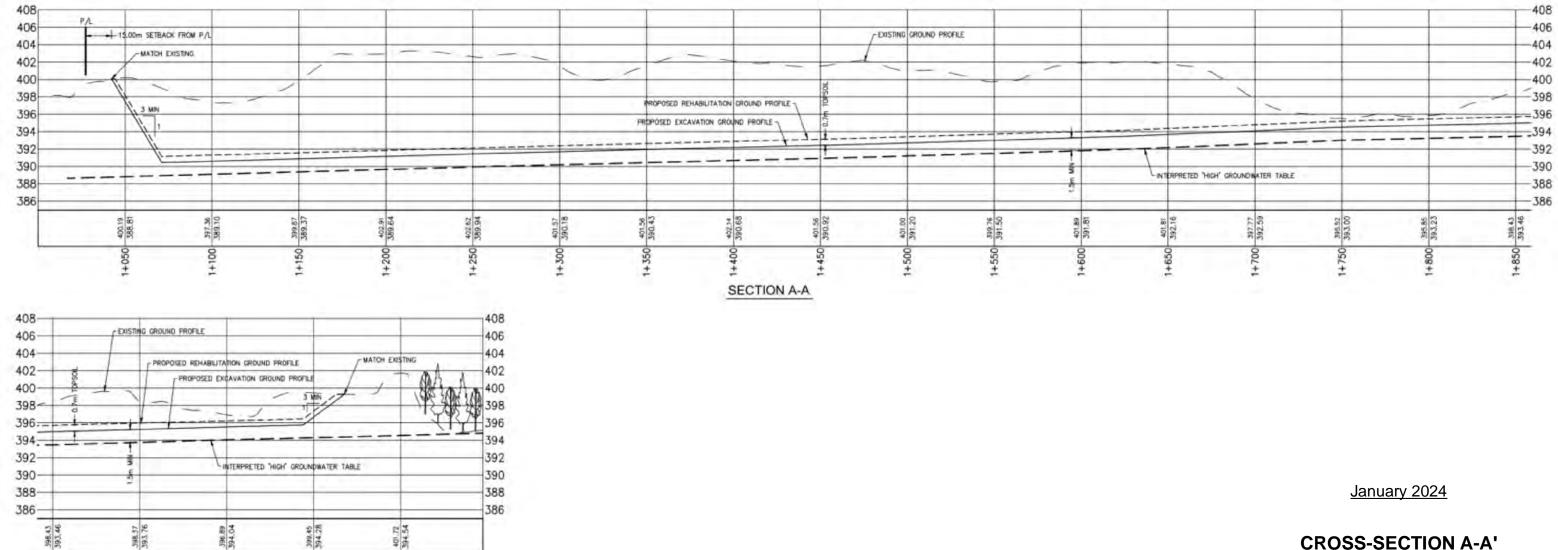
November 2023

GROUNDWATER FLOW PLAN

Normanby Con 1, Divisions 1 to 3, Part Lots 19 and 20, Con 2, Part Lot 46 Municipality of West Grey

Figure No. 3





2+050

2+000

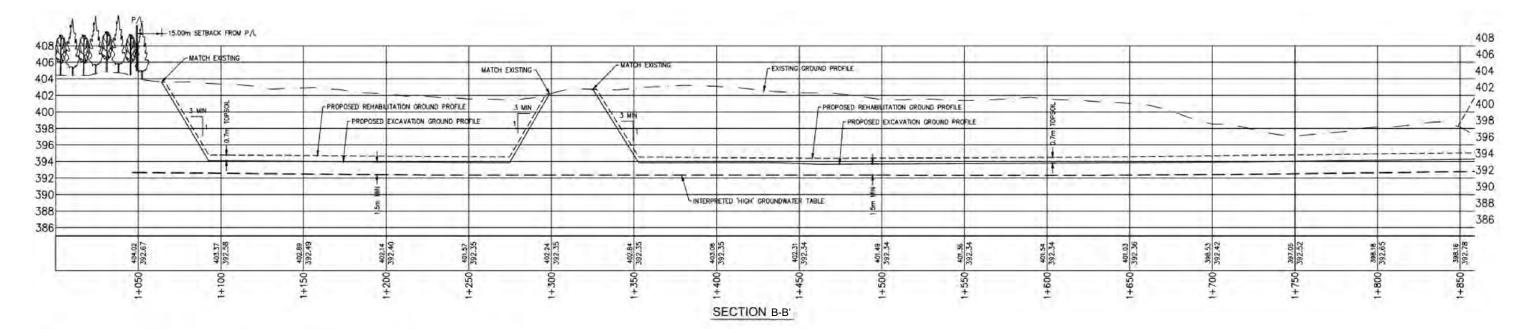
SECTION A-A cont'd

218045-1 **Maximum Predicted Water Table Elevation and Hydrogeological Assessment Report** 311804 Highway 6 Mount Forest, ON **Teeswater Concrete Ltd.**

CROSS-SECTION A-A'

Normanby Con 1, Divisions 1 to 3, Part Lots 19 and 20, Con 2, Part Lot 46 Municipality of West Grey

> Figure No. 4A Blue Plan Engineering



			_			LITATION GROUND PRO		+		+
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	11	10 111 4				30.00m SETBACK	ROM P/L	+		
	1	Y.			liose	3.0m High	EARTH BERM			T
	1	1			01 0	EXISTING GRO	UND PROFILE	1	1-	
		X		1.0	-0.7		A	1	3.0m MIN	
- 1					E		+	-	FROM P/L	
		-			Ľ,			4		1
		NW	-	1			EX. LOW AREA TO BE WITH NATIVE MATERIAL	FILE	D TO PIT FLOOR ELEVA	NON
		Ę		1		LINTERPRETED 'HIGH'	GROUNDWATER TABLE			
			-	LEX. LOW A	REA E N	TO BE FILLED TO PIT ATERIAL, COMPACTED	FLOOR ELEVATION TO 90% SPMDD			
98.16	392.78	3.09	392.94	5.35	393.06	68.26	393,16	398.12		
								- 1-		
OTO .	059+1	5	005+1		DCA+	000	000+7	2+050		2+100
	<u>r</u>		<u>r</u>		÷.	c	5	N		e,

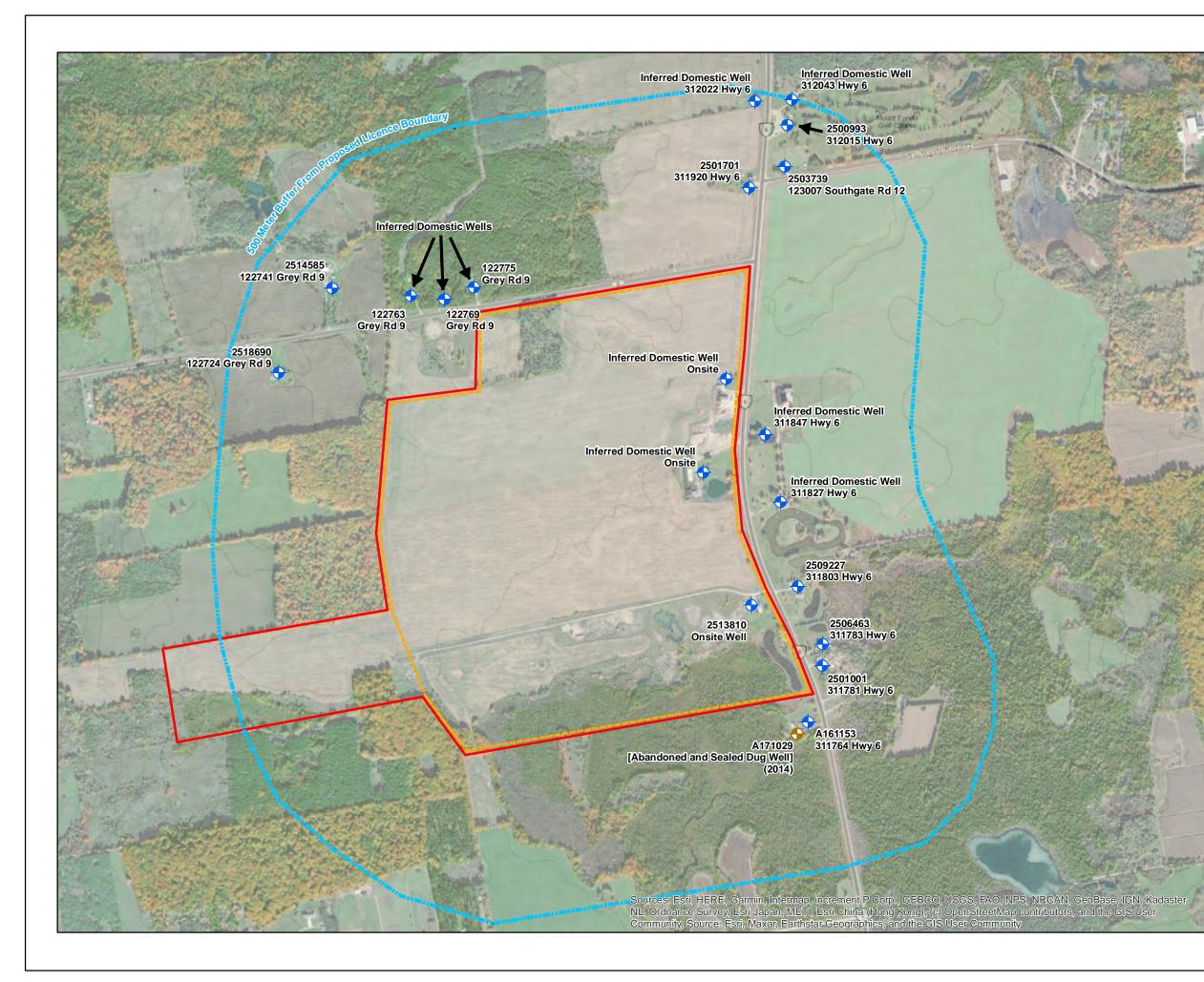
218045-1 Maximum Predicted Water Table Elevation and Hydrogeological Assessment Report 311804 Highway 6 Mount Forest, ON Teeswater Concrete Ltd.

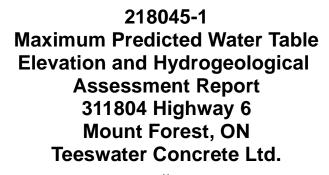
<u>January 2024</u>

CROSS-SECTION B-B'

Normanby Con 1, Divisions 1 to 3, Part Lots 19 and 20, Con 2, Part Lot 46 Municipality of West Grey

Figure No. 4B







LEGEND



 \bullet

Approximate Subject Property Boundary

Approximate Boundary of Proposed Licenced Area

500 Metre Buffer From Proposed Licence Boundary

Approximate Location of Onsite and Area Water Supply Wells

Approximate Location of Reported Abandoned Supply Well



1:10,000

November 2023

AREA SUPPLY WELL MAP

Normanby Con 1, Divisions 1 to 3, Part Lots 19 and 20, Con 2, Part Lot 46 Municipality of West Grey

Figure No. 5



TABLES:

Table 1:Summary of Nearby Domestic Water Supply Wells

MECP Well ID	Address	Approximate Distance From Site (m)	Lot	Conc.	Easting	Northing	Township	County/ Municipality	Well Use	Bedrock/ Overburden	Depth to Bedrock (m)	Total Depth of Well (m)	Static Water Level (m)	Year Drilled	
						O	nsite Domestic	: Well		-					
2513810	311804 Hwy 6		20	1W	516497	4876543	Egremont	West Grey	Domestic	Overburden	>71.9	71.9	4.3	1999	
Inferred	311804 Hwy 6		19	1W	516352	4876923	Egremont	West Grey	Domestic		Nola	formation			
Inferred	311804 Hwy 6		19	1W	516418	4877171	Egremont	West Grey	Domestic		NOT	lionnation			
	Registered Wells on Neighbouring Properties														
2509227	311803 Hwy 6	75	20	1	516612	4876592	Egremont	Southgate	Domestic	Overburden	>35.1	35.1	3.0	1988	
2506463	311783 Hwy 6	50	20	1	516672	4876447	Egremont	Southgate	Domestic	Overburden	>37.2	37.2	5.5	1978	
2501001	311781 Hwy 6	70	20	1	516670	4876175	Egremont	Southgate	Domestic	Overburden	>47.5	47.5	6.1	1957	
2500993	312015 Hwy 6 Mount Forest Golf	420	18	1	516640	4877450	Egremont	Southgate	Commercial	Bedrock	45.1	57.9	16.5	1959	
2503739	123007 Southgate Rd 12	320	18	1	516592	4877750	Egremont	Southgate	Domestic	Bedrock	48.8	58.5	13.7	1972	
2501701	311920 Hwy 6	240	18	1W	516468	4877713	Normanby	West Grey	Domestic	Bedrock	44.2	53.3	9.8	1954	
2518690	122724 Grey Rd 9	300	43	2W	515771	4877168	Normanby	West Grey	Domestic	Overburden	>22.4	22.4	11.6	2006	
2514585	122741 Grey Rd 9	390	42	2W	515315	4877421	Normanby	West Grey	Domestic	Overburden	>23.2	23.2	7.9	2001	
A161153	311764 Hwy 6	80	21	1W	516646	4876217	Normanby	West Grey	Domestic	Overburden	>35.1	35.1	12.2	2014	
A171029	311764 Hwy 6	95	21	1W	516611	4876190	Normanby	West Grey	Domestic	Overburden	· ·	filled and ab o be a histori			
						Inferred Wel	ls on Neighbo	uring Properties							
	312043 Hwy 6	500	18	1	516648	4878101	Egremont	Southgate	Domestic						
	312022 Hwy 6	480	18	1W	516500	4877950	Normanby	West Grey	Domestic						
-	122775 Grey Rd 9	75	18	1W	515706	4877415	Normanby	West Grey	Domestic						
	122769 Grey Rd 9	100	18	1W	515614	4877394	Normanby	West Grey	Domestic		No In	formation			
	122763 Grey Rd 9	200	18	1W	515534	4877396	Normanby	West Grey	Domestic						
	311847 Hwy 6	80	19	1	516514	4877016	Egremont	Southgate	Domestic						
	311827 Hwy 6	120	20	1	516563	4876829	Egremont	Southgate	Domestic						

Table 2:Onsite Water Level Measurements

Well ID	Ground Surface [GS]	Top of Pipe [TOP]	Top of Casing [TOC]						
Weirib	Elevation	Elevation	Elevation	22-Ma	r-2023	18-Jul	-2023	23-Oc	t-2023
	(masl)	(masl)	(masl)	(mbTOP)	(masl)	(mbTOP)	(masl)	(mbTOP)	(masl)
MW-1S	402.15	402.94	403.07	7.74	395.20	7.28	395.66	7.60	395.34
MW-1D	402.10	402.95	403.14	13.24	389.71	12.74	390.21	13.15	389.80
MW-2	399.12	399.87	400.05	2.63	397.24	5.36	394.51	5.60	394.27
MW-3	396.15	396.96	397.12	2.25	394.71	2.27	394.69	2.58	394.38
MW-4S	399.75	400.56	400.73	11.17	389.39	10.63	389.93	11.05	389.51
MW-4D	399.83	400.64	700.78	11.24	389.40	10.69	389.95	11.11	389.53
MW-5S	402.96	403.80	403.99	14.62	389.18	14.07	389.73	14.42	389.38
MW-5D	402.94	403.72	403.86	14.56	389.16	Broker	ken / Well Collapsed @ 8.8 mbgs		
MW-6S	399.64	400.49	400.66	8.8	391.69	9.19	391.30	9.58	390.91
MW-6D	399.63	400.42	400.57	10.47	389.95	10.03	390.39	10.4	390.02

Note: The groundwater elevations measured on March 22, 2023 are considered to be the annual maximum groundwater table elevation for the Site, measured following a period of significant snow melt and precipitation.

APPENDIX A: MECP WELL RECORDS

Ministry of Environment and Energy			ter Resources Act VELL RECORD
Print only in spaces provided. Mark correct box with a checkmark, where applicable.		513810 Municipality 25010 10 10 14	Con. GIR: 22 23 24 15 22 23 24
County or District	Township/Borough/City/Town/Village	e Con block tract	
Owner's surname 28-47 First name	Address		
Westson Properties	AR#3 Mount	RC Elevation RC Basin Code	pleted 18 01 19 day month year
21 Zone Easting			
LOG OF OV	ERBURDEN AND BEDROCK MA		Depth – feet
General colour Most common material	Other materials	General description	From To
Tapsoil			01
Brown Sand grave	1		1 29
Gray Sand grave	el		29 50
Crow gravel		wet	50 58
Gray Quick Sand			58 70
Gran Silt grave	(70 141
Gray Clay		Soft	141 185
Gray Dark Class			185 218
Roun gravel		COORSE	218 236
J			
31			
32 <u>10 14 15</u> <u>21</u>			65 75 80
Water found Inside	CASING & OPEN HOLE RECOR		Diameter ^{34–38} Length ^{39–40}
at - feet Nind of water diam inches	Material thickness inches From	To U Material and type	Depth at top of screen 30
218-236 Salty : Gas / 3	Galvanized Concrete Concrete Concrete	236	feet
2 Galty & Gas	Plastic		SEALING RECORD
20-23 1 C Fresh 3 Sulphur 24 2	Steel ¹⁹ Galvanized Concrete	Depth set at - feet	Abandonment
23-28 1 □ Fresh 3 □ Sulphur 29 5 □	Open hole Plastic	From Io	d type (Cement grout, bentonite, etc.)
2 □ Salty ⁴ □ Minerals 24-25 1 □ 6 □ Gas 24-25 2 □	Steel ²⁶ Galvanized	27-30 0° 45 BE	nstal
4 Minerals 4	Concrete Open hole Plastic	26-29 30-33 80	
	ration of numping		
1 D Py JRBailer 50 GPM	Hours Mins	LOCATION OF WEL In diagram below show distances of well	1
Static level end of pumping Water levels during During	mping ² GRE covery	Indicate north by arrow.	
SU 14 26-28 29-31	14 14 35-37	Ayton Rd	1.
If flowing give rate set feet feet feet	feet feet ter at end of test 42	Ţ Į,	
GPM feet Recommended pump type Recommended	Commended 46-49	10	
Shallow Neter pump setting	np rate 2 SGPM		
FINAL STATUS OF WELL 54		goom I	
1 Image: Supply 5 Abandoned, insufficient supply 2 Observation well 6 Abandoned, poor quality	/ ⁹ □ Unfinished ¹⁰ □ Replacement well		×
Test hole			
WATER USE	g □ Not used		
1 Growstic 5 Commercial 2 Stock 6 Municipal 3 Irrigation 7 Public supply	Image: 10 Other	5000	
Industrial ■ Scooling & air conditioning		+** \	\mathbf{x}
METHOD OF CONSTRUCTION 57	9 Driving		\backslash
2	ID Digging II Other		200215
4 🛄 AotBry (air) 8 🗌 Jetting			
Name of Well Contractor	Well Contractor's Licence No.		Date received 63-68 60
High land Water wills Box 141 Dorham	2576 Z	e of inspection	FEB 0 5 1999
Box 141 Derham		narks	
Name of Well Technician		1101 h <i>a</i>	
Signatured Tichnician/Contractor	Submission date		CSS.ES9
There are a second seco	day 300 / yr 99 2		0506 (07/94) Front Form 9

2 - MINISTER OF ENVIRONMENT & ENERGY COPY

0506 (07/94) Front Form 9

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	o water kei	Jources Comm		ONTARIO RESOURCES	COMMISSION
Lot - 18 WATE	ER W	ELL F	RECORE	RESOURCES	
County or District		Townshin	Village, Town or	City Egren	ront.
Con the the total tota	Ŧ	Date comp	pleted 3rd	Dec	1959
		ress	$RR^{(day)}$	3 Our	1959 Jear) Ont
		<u></u>		/	
Casing and Screen Record				ping Test	
Inside diameter of casing 4 11.		Static lev	rel	pr'	20 G.P.M.
Total length of casing	1		level	60 p	
		of test pumping	-	A	
	Length of screen. Depth to top of screen. Diameter of finished hole				chan
Diameter of finished hole 4 1N					1 0 G.P.M.
		with	pumping level of	60 p	<u>_</u>
Well Log		1	Wat	ter Record	1
Overburden and Bedrock Record	From ft.	To ft.	Depth(s) at which water(s) found	No. of feet water rises	Kind of water (fresh, salty, sulphur)
GRAVEL + BOULDERS	0	20	180	126	FRESh
COURSE SAND+ GRAVEL HAR O PAN	20	92			
BROWN CLAY	92	100			
BRUNZIME STONE	148	148 190			
				<u> </u>	
		1		,	111
For what purpose(s) is the water to be used?	11 1	r -	Locat	ion of Well	/•/
Dottes Tre Ciff	u sho	70 I	n diagram below		
Is well on upland, in valley, or on hillside?		r	oad and lot line.	indicate north	i by arrow.
UPLAND	00				
Drilling Firm Durham O.	rillers		of a		
Address Box 299			Jun		
Durham Ost.			N IP		
Licence Number 327	11-		A R		
Name of Driller Ponald A	Jelus			50 DOWELL	
Address PR# 24ano Date Jan 20 1959	ver On	el l	T 1-	~~~	
Date Jan 20 751.					
Percy of haton (Signature of Licensed Drilling Contractor	r)		Fomil	ڬ	
			4		· IDA -
Form 5			P	Co. Rd. N. TO H	obstein -
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19 R 418171611715 N		41A	12 Mar 1	4 10/3	λ
lev. 1 R. LAIRELDI CEAST	ONTARIO				\backslash
	Vell Drillers A	Act	RESOURCER		X
Department of N	dines, Provin	ce of Ontar	tio	آینهمیتونشاند، با الانتیون بی این و همی	Λ
Water V	Vell]	Reco	ord		1
vvater v			•	4	
			or City		• • • • • • • • •
	fown o	or City)		•••••	
Date Completed	f Well (excludi	ng pump)			
Pipe and Casing Record	<u></u>	Р	umping Test		
Casing diameter(s)	Date Cc	t. 1.8. 15	.7		
Length(s) of casing(s). 154. ft.	Static level	20 ft			
Type of screen	Pumping leve	$a \in C f C$	 /.	• • • • • • • • • • • • • • • • • • • •	
Length of screen		ek.g.a.	per mis	·····	
Distance from top of screen to ground level Is well a gravel-wall type?					
	ater Record			•	· · · · · · · · · · · · · · · · · · ·
Kind (fresh or mineral)	≤+		. Depth(s) to Water	Kind of Water	No. of Feet Water Rises
Quality (hard, soft, contains iron, sulphur, etc.)		~	$\frac{\text{Horizon(s)}}{1.5 \text{ (c)}}$	1 - to	131.14
Appearance (clear, cloudy, coloured)	nestic			fresh	- Tota pa
			•		_
How far is well from possible source of contamination?	35ft		·		
What is the source of contamination?	••••		·		
What is the source of contamination? Enclose a copy of any mineral analysis that has been ma	••••	······			
What is the source of contamination?	••••			ration of Well	مرار ا
What is the source of contamination? Enclose a copy of any mineral analysis that has been ma Well Log	ide of water		Loc In diagram	below show dist	ances of
What is the source of contamination? Enclose a copy of any mineral analysis that has been ma Well Log	From 0 ft.	To ft. 50.ff	Loc In diagram i well from r	below show dist oad and lot li	ances of
What is the source of contamination? Enclose a copy of any mineral analysis that has been ma Well Log	From 0 ft. 0 5 ft.	To ft. 50.fr 90	Loc In diagram	below show dist oad and lot li	ances of
What is the source of contamination? Enclose a copy of any mineral analysis that has been ma Well Log	From 0 ft.	To ft. 50.fr 9.6 9.5	Loc In diagram i well from r	below show dist oad and lot li	ances of
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What is the source of contamination? Enclose a copy of any mineral analysis that has been ma Well Log Overburden and Bedrock Record mand: sand: suit	ide of water From 0 ft. 0 50 90 95 110	To ft. 50.fr 9.6 9.5 110 150	Loc In diagram i well from r	below show dist oad and lot li	ances of
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What is the source of contamination? Enclose a copy of any mineral analysis that has been ma Well Log Overburden and Bedrock Record grand grand grand ailt	ide of water From 0 ft. 0 50 90 95 110	To ft. 50.ff 9.6 9.5 110 150 1.56	Loc In diagram i well from r	below show dist oad and lot lin h by arrow. County Rd	ances of
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What is the source of contamination? Enclose a copy of any mineral analysis that has been ma Well Log Overburden and Bedrock Record grand grand grand ailt	ide of water From 0 ft. 0 50 90 95 110	To ft. 50.ff 9.6 9.5 110 150 1.56	Loc In diagram i well from r	below show dist oad and lot lin h by arrow. County Rd	ances of
What is the source of contamination?	Inde of water	To ft. .50.fr 9.6 9.5 J J C 1.5 C 1.5 C	Loc In diagram well from r dicate north	below show dist oad and lot lin h by arrow. County Rd + 5 2 2 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ances of ne. In- To Haktern
What is the source of contamination?	Inde of water	To ft. 50.fe 9.5 9.5 110 150 1.56 1.56	Loc In diagram i well from r	below show dist oad and lot lin h by arrow. County Rd + 5 2 2 2 2 3 5 5 5 5 5 5 5 5 5 5 5 5 5 5	ances of ne. In- To Haktern
What is the source of contamination?	Ide of water From 0 ft. 0 50 90 95 110 1.50 	To ft. 50/4 90 95 110 150 156 156	Loc In diagram well from r dicate north	below show dist oad and lot lin h by arrow. Comoty Rd + 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2 5 2	ances of ne. In-
What is the source of contamination?	Ide of water From 0 ft. 0 50 90 95 110 1.50 	To ft. 50.fe 9.5 9.5 110 150 1.56 1.56 1.56	Loc In diagram well from r dicate north	below show dist oad and lot lin h by arrow. Compty Rd + E South Pt South Pt South Pt E South Pt P	cances of ne. In-
What is the source of contamination?	Ide of water From 0 ft. 0 50 90 95 110 1.50 	To ft. 50.fe 9.5 9.5 110 150 1.56 1.56 1.56	Loc In diagram well from r dicate north	below show dist oad and lot lin h by arrow. Compty Rd + E South Pt South Pt South Pt E South Pt P	cances of ne. In-
What is the source of contamination?	Ide of water From 0 ft. 0 50 90 95 110 1.50 	To ft. 50.fe 9.5 9.5 110 150 1.56 1.56 1.56	Loc In diagram well from r dicate north dicate north T T T T T T T T T T T T T T T T T T T	below show dist oad and lot lin h by arrow. Comoty Rd + - E 5 2 0 5 5 5 2 0 5 5 5 5 7 0 5 5 5 7 0 5 5 5 7 0 5 5 7 0 5 5 7 0 5 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	cances of ne. In-

Department of 1	Vell Drillers Act Mines, Province of Onta	Č.	25 N?	1701
Water V	Vell Reco	O TO EPART	MAN OF MAN	s /s. /. 8
	p, Village, Town Cown or City) sfurthered Well (excluding pump)	Octaria		
Pipe and Casing Record	P	umping Test		
Length (s) of casing (s). 1.6.4. ft. Type of screen.		lt. per m	·····	•••••
	iter Record			
Kind (fresh or mineral) fresh Quality (hard, soft, contains iron, sulphur, etc.) land Appearance (clear, cloudy, coloured) clean For what purpose(s) is the water to be used? faint How far is well from possible source of contamination? What is the source of contamination?	100 pt. d	Depth(s) to Water Horizon(s)	Kind of Water	No. of Feet Water Rises
Enclose a copy of any mineral analysis that has been made Well Log	e of water			
Overburden and Bedrock Record loose and course granel sandy clay Ilue clay shaky rock, blue is colour bard blue rock	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	In diagram be	tion of Well elow show dista ad and lot line by arrow.	e. In-
			y ord	Holsten
			Auton	
Situation: Is well on upland, in valley, or on hillside? Drilling Firm. Pract Bros. Address. R. R. Y. Durlow, Ort. Name of Driller. Neurone Praco Date		R. H. F. W.a. nber. 53 M. uumo Signature of I	slem, Oc	

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	The Ontario Water Resou		41A/200
			GR E Q QI
Water management in Ontario 1. PRINT ONLY IN SPA 2. CHECK X CORRECT COUNTY OR/DISTRICT	CES PROVIDED BOX WHERE APPLICABLE TOWNSHIP, BOROUGH, CITY, TOWN, VILLAGE	2503739 25 GO S	15 22 23 24
Srey.	Egerment	mit 2. A:	ATE COMPLETED OF SS
	127550 4	ELEVATION RC. BASIN CODE	
LOC	G OF OVERBURDEN AND BEDRO	26 30 31 CK MATERIALS (SEE INSTRUCTIONS)	DEPTH - FEET
GENERAL COLOUR COMMON MATERIAL	OTHER MATERIALS	GENERAL DESCRIPTION	FROM TO
Brown Sport	Boulders.		1 42
Blue Clay		Soft.	42/60
Sun timeston	e	Hard.	1 / 1 / 92.
(31) $pag/1892$ $ 994$	7411113 1 10/GQ3ast 1 1	6/856/15-11 61/922/15-11	
$\begin{array}{c c} 31 \\ \hline & 0 \\ \hline & 32 \\ \hline & 10 \\ \hline & 14 \\ 15 \\ \hline & 2 \\ \hline & 10 \\ \hline & 14 \\ 15 \\ \hline & 21 \\$			65 75 80 33 DIAMETER 34-38 LENGTH 39-40
41 WATER RECORD	DIAM MATERIAL THICKNESS		INCHES FEET DEPTH TO TOP 41-44 80 OF SCREEN
0190 10-13 1 TRESH 3 1 SULPHUR 14 2 SALTY 4 MINERAL	10-11 1 STEEL 12 2 GALVANIZED		FEET
15-18 1	4 OPEN HOLE 17-18 1 STEEL 19	Offo	SEALING RECORD BRIAL AND TYPE (CEMENT GROUT, LEAD PACKER, ETC.)
2	2 GALVANIZED 3 CONCRETE 4 DEFEN HOLE 24-25 I STEEL 26		
2 _ SALTY 4 _ MINERAL 30-33 1 _ FRESH 3 _ SULPHUR ³⁴ 80 2 _ SALTY 4 _ MINERAL		26-29 30-33 80	
PUMPING TEST METHOD 10 PUMPING RATE	11-14 DURATION OF PUMPING 15-16 30 17-18 GPM Lours 30 17-18 MINS.	LOCATION OI	
WATER LEVEL 25	R LEVELS DURING 2 RECOVERY	IN DIAGRAM BELOW SHOW DISTANCES OF LOT LINE. INDICATE NORTH BY ARROW.	WELL FROM ROAD AND
5 45 FEET 45 OUS	18 045 ²⁹⁻³¹ 045 ³²⁻³⁴ 45 ³⁵⁻³⁷	June .	
GIVE RATE GPM. GPM. GPM. GPM. GPM. GPM. GPM. GPM.	FEET 1 CLOUDY	2 10	a
SHALLOW THEEP SETTING	60 FEET RATE 2010 GPM.		1. Holstine
FINAL 54 1 WATER SUPPLY 2 G OBSERVATION WEL STATUS 3 TEST HOLE	5 ABANDONED, INSUFFICIENT SUPPLY 6 ABANDONED, POOR QUALITY 7 UNFINISHED	ayton Find	
OF WELL 3 TEST HOLE OF WELL 4 RECHARGE WELL 55-56 I MOMESTIC	5 🗌 COMMERCIAL		
WATER 3 IRRIGATION USE // 4 INDUSTRIAL	6 MUNICIPAL 7 PUBLIC SUPPLY 8 COOLING OR AIR CONDITIONING		
	9 🗌 NOT USED 6 🗍 BORING (IONAL) 7 🗍 DIAMOND		
METHOD 2 PROTARY (CONVENT OF 3 Dotary (REVERS) DRILLING 4 DOTARY (REVERS) 5 Data Percussion 5 Data Percussion		DRILLERS REMARKS:	
NAME OF WELL CONTRACTOR	Cilling 3737		ATE RECEIPED 00472 63-68 80
V ADDRESS RHS MA	Aner.	DATE OF INSPECTION INSPECTOR	SN.
NAME OF DRILLER OR HORER	LICENCE NUMBER		PS
SIGNATION FOR CONTRACTOR	1 DAY 2/ MO_11_YR 2-2	OFFICE	WI &
OWRC COPY			

Ministry of the Environment		WAT	ER	WE	Väter Resource	ces Act		
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OUNTY OF DISTRICT	TOWNSHIP, BOROUGH, CIT	Y, TOWN, VILLAGE		CON., E	CON	9. G.	R.E.	
	RG	1# 6	m	T For	REST	DATE COMPL	ETEDOG	48-53 YR
	876	259 5		RC_				
- <u>2</u> 10 12		24 2	5 26 -	30	STRUCTIONS)		·····	
ENERAL COLOUR COMMON MATERIAL	OTHER MA				L DESCRIPTION		DEPTH	- FEET TO
Rhout TUP SOL	7.						Ó	1
BROWN GRAVEL.	SANJ	2			· · · · · · · · · · · · · · · · · · ·		1	35
GREY CLAY.						•••	35	60
GREY HARDP	PAN' GRACI	EL.					60	256
REY CLAY	SAND						PS_	115
BROWN GRAVEL							115	12
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41 WATER RECORD	INSIDE		RECORD				INCHES	
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2SALTY 4MINERAL	4] OPEN HOLE 17-18 1] STEEL 2] GALVANIZED	19	20-23	DEPTH SE	ET AT - FEET	ATERIAL AND		ENT GROUT.
2 SALTY 4 MINERAL	3 [] CONCRETE 29 4 [] OPEN HOLE			10-1	3 14-17			
2 SALTY 4 MINERAL	24-25 1 💭 STEEL 2 🗍 GALVANIZED	26	27-30	18-2				
Z C SALTY 4 MINERAL	3 🗍 CONCRETE 4 🗍 OPEN HOLE						х `?	
10 PUMPING TEST METHOD 10 PUMPING 1 ★PUMP 2 □ BAILER	0 00 1	PUMPING 5-16 * 30 17-18		L(OCATION O	FWELL		
STATIC WATER LEVEL 25	1	RECOVERY	IN DI LOT L	AGRAM BELO	W SHOW DISTANCE	S OF WELL F ROW.	ROM ROAD	AND
018 040 040	1753 30 MINUTES 45 MINUTE 28-28 04 89-31 040			mi	TA I			
THE FEET FEET	FEET FEET AKE SET AT WATER AT END	FEET FEET FEET D OF TEST 42		!IE	/1 /			
GPN	HO FEET CLEA	46-49	which	Tot a				
RECOMMENDED PUMP TYPE RECOMME U SHALLOW DEEP SETTING	040 FEET RATE 00	06 · gpm		J. TER			1	and the second sec
54	Y S 🗍 ABANDONED. INSI	UFFICIENT SUPPLY	1]	1	-1-1,8	33 m	nelss	
STATUS	WELL 6 ABANDONED POO 7 UNFINISHED			n lot 1				
OF WELL 4 C RECHARGE WE	5 Dr. COMMERCIAL		HULSTERI	4			• *	•
WATER 1 2 STOCK	6 🗌 MUNICIPAL 7 🗋 PUBLIC SUPPLY		T	1.				
	8 COOLING OR AIR CON 9 N						1	
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METHOD OF DRILLING NAME OF WELL CONTRACTOR	VENTIONAL) ? DIAMONO ERSE) & JETTING 9 DRIVING ON MUELL DA SAC	LICENCE NUMBER	DATA SOURCE DATE OF INSP US 29	58 CC	· · · · · · · · · · · · · · · · · · ·	DATE RECEIVED	077	8

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Minis of the			WAT	TER	WE	ELL	RE	CO	RD
Ontario Envir	Onment	PACES PROVIDED		25092	27	250,05	Ğ.R.	E	01
COUNTY OR DISTRICT	2. CHECK 🛛 CORRE	TOWNSHIP, BOROUGH. CITY	T. TOWN, VILLAGE			10 H	15 Y. ETC.		22 23 24 LOT 25-27
	COPU	EGK	ROMUT	· 		I DIV	DATE COMPL	RE	20
		R. #	3 Mo	UNT FO			DAY 20	2 MO 0	_
		7.6	575 L					801 	
	LO	G OF OVERBURDEN	AND BEDR	OCK MATERIA	LS (SEE IN	STRUCTIONS)		DERTH	· FEET
GENERAL COLOUR	NOST COMMON NATERIAL	OTHER MAT				DESCRIPTION		FRON	TO
BROWN	TOP SOIL	SAND	Ston	ies j	AYEI			<u> </u>	18
GREY	CLAY	- + = 4/2	· c		SOF			18 22	22
BROWN	SAND	StoNE Silt	<u> </u>		SOF			65	105
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31		<u> </u>	· · · · · · · · · · ·			<u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
	TER RECORD	51 CASING &	OPEN HOLE			OF OPENING	31-33 DIAME		LENGTH 39-40
WATER FOUND AT - FEET	KIND OF WATER	INSIDE DIAM MATERIAL INCHES	WALL THICKNESS INCHES	DEPTH - FEET FROM TO		RIAL AND TYPE		INCHES DEPTH TO TOP OF SCREEN	FEET 41-44 80
115 28	SALTY 4 [] MINERAL	6 14 18 STEEL 2 GALVANIZED 3 CONCRETE	· 188	0 115		PLUGGIN			
 	FRESH 3 SÚLPHUR ¹⁹ SALTY 4 MINERAL 24	4] OPEN HOLE 17-10] STEEL	15	20-23		ET AT - FEET	MATERIAL AND	TYPE CEN	IENT GROUT
. 2	FRESH 3 SULPHUR 24 SALTY 4 MINERAL	Z 🗌 GALVANIZED 3 🗌 CONCRETE 4 🗍 OPEN HOLE			FROM 10-	TO -13 14-17			
2 🗆] FRESH 3 [] SULPHUR ²⁹] SALTY 4 [] MINERAL		26	27-30	18-	21 22-25			
] FRESH 3 □ SULPHUR ^{34,64}] Salty 4 □ Mineral	3 CONCRETE 4 OPEN HOLE			26-	29 30-33 80			
71 PUMPING TEST MET		20 2.	5-10 30 17-1		L	OCATION	OF WEL	L	
AIRX PUMP STATIC LEVEL	2 BAILER WATER LEVEL 25 END OF WATER L		DURS MIN			W SHOW DISTANC	ES OF WELL RROW.	FROM ROAD	AND
L 19-21	22-24 IS MINUTES		3		· •	ICATE NORTH BY A	Mut	twp.	
		ET FEET	FEET FEE		10	à EGNO	},	R	
S FEET GIVE RATE RECOMMENDED PU	GFM.	D FEET I K CLEA		-41	щүн	Lot			
50-53	PUMP	45 FEET RATE	15 GPI		1	£07			
	54 . ST WATER CURPLY	s 🗌 ABANDONED, INSI	HEFICIENT SUPPLY		#		· X WEL	r H	•
FINAL STATUS	2 OBSERVATION WE 2 TEST HOLE				Ĩ		~	\	
OF WELL	4 C RECHARGE WELL	S COMMERCIAL			1 4 16	H			
WATER	2 STOCK 3 IRRIGATION	6 🔲 MUNICIPAL 7 📋 PUBLIC SUPPLY 8 🛄 COOLING OR AIR CON	DITIONING		FOREST	70			
USE	4 INDUSTRIAL OTHER 		OT USED			00			
METHOD	57 I CABLE TOOL 2 C ROTARY (CONVEN	_			Mount				
OF DRILLING	3 🗋 ROTARY (REVERS 4 📋 ROTARY (AIR) 5 🔲 AIR PERCUSSION	E) B I JETTING 9 I DRIVING		DRILLERS REMAR	<u>°</u>				
NAME OF WELL	CONTRACTOR	4-0 - 1	LICENCE NUMBER			CONTRACTOR 58-6		°1819	63-64 40 00
HOLD ADDRESS 38	HGHLIN WA	HER WELLS	3518	DATE OF INSP	ECTION	INSPECTOR	I IEB	10 19	00
	POLMAN ST	KRESLAU	LICENCE NUMBER		11/8	8	. <u></u>		(Th)
Z ROB	MCLAUG	HLIN SUBNISSION DATE	7-0348						A
SIGNUR	Laugh	20 DAY 24 MC	06 YR 8	7 ö				5004445)
MINIS	STRY OF THE E	NVIRONMENT C	OPY	and the second				FURM NO. 050	06-4-77 FORM 7

Ø	Ontario
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Ministry of the

Environment

Print only in spaces provided. Mark correct box with a checkmark, where applicable. The Ontario Water Resources Act WATER WELL RECORD

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iounty or District Township/Borough/City/Town/Village			Con block tract	survey, etc. Lot 12WGR 42				
	Address	Moksten	Date	pleted 25 4 61 day month year				
21	Nodeny		kation RC Basin Covie	an a				
LOG OF OVERBURDEN AND BEDROCK MATERIALS (see instructions) Depth - feet								
General colour Most common material	Other materials		General description	From To				
Brown gravel	stones som	rd	1	0 48				
Brown sind	Silk	w	et	48 54				
Brown gruvel	Coursesa	nd.	Jaber	54 76				
	<u> </u>		<u>. , , , , , , </u>					
41 WATER RECORD 51	CASING & OPEN HOLE			Diameter 34336 Length 3630				
Water found Kind of water ling		Depth - feet From To	(Slot No.) 20 SS Material and type	Depth at top of screen				
70-76 7 Sally Contracts	2011 1 Dateel 12 7 Galvanized	1177	S.S. 2'leadpy	41.44				
· S · S · S · Sulphur · ∕	3 □ Concrete 4 □ Open hole 5 □ Plastic	+1 72	61 PLUGGING & SE					
→ → → → → → → → → → → → → → → → → → →	 * Steel 2 Galvanized 3 Concrete 	70.23	Depth set at - feet Material and	Abandonment Abandonment type (Cement grout, bentonite, etc.)				
25.25 3 Salty 6 Gas	Gpen hole Den hole Den hole Den hole		1013 40 Bens					
30-31 y	A-25 Concrete	37.30	14.21 22.25					
² Gas	 Open hole Plastic 		26.29 163.02 60					
71 Dumping test method 10 Pumping rate	GPM Hours Mins		LOCATION OF WELL					
Static level Water level Water levels during	Pumping Decovery	In diagra Indicate	am below show distances of wel north by arrow.	I from road and lot line.				
Image: Section of pumping end of pumping 2 1 2 15 2 6 1 feet 1 feet 1 feet 1 feet 1 GPM	test $26_{32,34}$ 45 minutes $_{32,34}$ 60 minutes $_{32,37}$ foot 26_{4eet} foot							
2 Geet feet feet If flowing give rate 26-41 Pump intake set at	Water at end of test							
Recommended pump type Recommended	feet Clear Cloudy							
Shallow Deep pump setting 60	feet Pump rate 20 GPM		14250					
FINAL STATUS OF WELL		4-	County Ad Kg	A ton ->				
Abandoned, insuffi Observation well Test hole Test hole Abandoned (Other	quality 👘 🗋 Replacement well		t to the second s					
C Recharge well Dewatering				*				
WATER USE 65.66 Domestic 6 Stock 6	 Not use Other 	Fr		ą				
Irrigation □ □ Public supply □ Industrial □ □ Cooling & air cond	itioning							
METHOD OF CONSTRUCTION								
Cable tool Image: Ca	☐ Driving 10 □ Digging 11 □ Other	II Y		010711				
t ☐ Jetting		*		219711				
Name of Well Contractor	16 Well Contractor's Licence No. 2576	ONT Data source Date of inspectio	¹² Contractor 5 7 6 ^{30.62}	Date received Add Add Add Add Add Add Add Add Add A				
Adres Box 141 Durkam	NAL 120	Date of inspectio						
Name of Well Technician	Well Technician's Licence No.	ATT SININ						
ERICH Wilson Signature of Technician/Contractor	Submission date			CSS.ES1				
KUN	26 mo4 yrO1	Σ						

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0506 (11/98) Front Form 9

(A) ()	ntario	Ministry of the Enviro	nment	Well Tag		19.12.63.64 1		Regulation 903 O	Well Record
Instruction	s for Completi				A026	068	· · ·		page of
 All Secti Questio 	ions must be co	mpleted in npleting thi	full to avoi s applicatio	d delays i on can be	n processi directed to	ing. Furthei o the Wate	instructions ar	Please retain for future re nd explanations are availate ment Coordinator at 416	ale on the back of this form
	print clearly in bl							Ministry Use O	nly
Well Owner	r's Information	and Loca	ation of W	ell Infor	mation	MUN	C	XON ON	LOT
OREY	/					NORMA		43	2 W GR
RR#/Street NL		P a	0			City/Town/	/illage		ent/Block/Tract etc.
GPS Reading	NAD ZO	Korio ne Eastin	7	Northin	a	Unit Make/i	Model Mode	e of Operation: Mundiffere	ntiated Averaged
	8 3 /	7 51	57711	4X 4	17/28	GARMIN	ETREX		iated, specify
	rburden and B			· · · · · · · · · · · · · · · · · · ·		·	·		,
General Colour	Most common	material		Other Mate	rials		Genera	al Description	Depth Metres
BROWN	SAND	<u>p</u>							0 4.6
	GRAVEL		SAR	SU					4.6 8.5
	CLAY .		GRAU						8:5 107
	QA4		GRA		SAND				107 707
· · · · · · · · · · · · · · · · · · ·	GRAVEL					•			207 775
	What what has								20 12
								· ·	
								0. 701	
	Diameter	r		<u> </u>				VEPTH (3	
	letres Diameter			Constru	uction Rec	ord			Well Yield
• • •	To Centimetres	Inside diam	Materia	al	Wall thickness	Depth	Metres	Tim	Praw Down Recovery e Water Level Time Water Level
07	14 23	centimetres			entimetres	From	То	U TUMP mir	
2,4 2	7 23			C	asing			Pump intake set at - Stati (metres)	
	<u> 7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u> <u>7</u>		Steel F	ibrealass	· · · · · · · · · · · · · · · · · · ·	.76		Pumping rate - 1	
			Plastic C		48		21.4	(litres/min) 55	
Water found	r Record	10	Galvanized			T	~!	Duration of pumping 2 hrs + min	11.82 2 11.68
at Metres /	Kind of Water		Steel	-				Final water level and	11.82 3 11.68
	Fresh Sulphur Salty Minerals		Plastic C	Concrete				of pumping metres	
Other:			Galvanized					Recommended pump 4	11.86 4 11.66
m	Fresh Sulphur							type.	
Gas	Salty Minerals		Plastic C Galvanized	oricrete				depth.	1/86 5 11.66
• · · · · · · · · · · · · · · · · · · ·	Fresh Sulphur				Screen			Recommended pump 10	11.86 10 11.66
Gas 🗌	Salty Minerals	Outside	Steel F	ibreglass	Slot No.			rate. (litres/min) 15	1.89 15 11.62
Other:		diam				21 ⁴	22.4	If flowing give rate - 20	1189 20 11.62
After test of well	l yield, water was ediment free	14	Galvanized	М	NOBLOCK	21	22	(litres/min) 25	11.89 25 11.62
Other, specif					sing or Scr		Pe.	lf pumping discontin- ued, give reason.	11.89 30 11.62
			Open hole					50	11.89 50 11.62
Chlorinated	Yes No							60	11.89 60 11.62
	Plugging and Se	aling Reco	rd 🔎	Annular s	pace 🗌 At	pandonment		Location of W	ell
Depth set at - Me From T	o Material and typ	e (bentonite sl	urry, neat cem	ent slurry) et		ne Placed c metres)		w show distances of well from re	oad, lot line, and building.
		NITE	Cini.	RY	(0000		Indicate north by		11
		ANE_					GRE	Y KD T	
			2				T		
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	- 7 - 2		· · · · ·				102	Z	
	<u></u>	lethod of C	onstructio	ń				24	
	Rotary (amond		Digging			6
Rotary (conve		÷.	=	ting] Other		/380	
Rotary (revers	se) Boring	147		ving			4	1504	
X Domestic	Industri	Wate		blic Supply		Other			
				t used					
Irrigation	Municip		Co	oling & air c	onditioning		Audit No. Z	38450 Date We	II Completed
Water Supply	Recharge w	Final Stat		finished	Abanda	oned, (Other)		vner's information Date Del	Ivered YYYY MM DD
Observation v	· · · · ·	insufficient su		watering			package delivere	moi o inionnauon	
Test Hole Abandoned, poor quality Replacement well					Ministry Use On	•			
Name of Well Co		tractor/Tec	nnician Inf		Contractor's L	icence No	Data Source	Contract	tor
MEDMINR	ANK KRILL	ints a	ERVICE		6865				6865
Business Addres	s (street name, numb	er. citv etc.)					Date Received	2YY2006MM DD Date of I	nspection YYYY MM DD
Name of Well To	chrycian (last name, f		bB 1		Technician's I	icence No	Remarks		cord Number
HILL				T	1897		I TOMAIKS		
Signature of Teo		•		Date S	ubmitted yyyy				
X //	1 427,000	C	actor's Copy	/ [] N/imi-			ner's Copy	Cotto formu	le est disponible en français
0506E (09/03)		Contr	actor s COP		suys ∪opy			Celle IOIMU	ilo est disponible en trançais

Contario Ministry of the Environment	Tag#: A16 ⁻	1153 ^{t Below)}		Well Record
Measurements recorded in: 🗌 Metric 💭 Imperial	TA6# A10	~/153		Water Resources Act
Well Owner's Information First Name Last Name / Organization		E-mail Address		
1262841 ONT. INC Mailing Address (Street Number/Name)	Municipality			Well Constructed by Well Owner
Box 23 AYTON Well Location	WESTGREY	Province Postal QUITARIO WOO	Code Telepho	one No. (inc. area code)
Address of Well Location (Street Number/Name)	Township	Lot	Conces	
FIRE# 3/1764 County/District/Municipality	NORMAN, City/Town/Village		C k	200 1
WESTGREY	-		Province Ontario	Postal Code
NAD 8 317 507015 4890969	Municipal Plan and Su		Other	
Overburden and Bedrock Materials/Abandonment Sealing Red General Colour Most Common Material	c ord (see instructions on t ther Materials			Death (
		General Descrip	n	Depth (<i>m/ft)</i> From To
Topsoil				0 27
STONES & GRAVEL & SAND				2 100
BROLOW CLAY GRAVEL				100 110
CONTREL				110 115
Annular Space				
Depth Set at (m/ft) Type of Sealant Used From To (Material and Type)	Volume Placed (m³/ft³)	After test of well yield, water was:	Well Yield Testin	Recovery
	(Clear and sand free	(min) (m/ft)	vel Time Water Level (min) (m/ft)
O 20FT JOGAL GOOT SLUPRY		If pumping discontinued, give reasc	Level	
150 LBS 3/8 Holephuc		Pump intake set at (m/ft)	1 47F	
		AIR-Pump 115 FT Pumping rate (/min / GPM)	$-\frac{2}{3}$	Contraction of the Party of the
Cable Tool Diamond Public Comme		106PM	4	4
Rotary (Conventional) Jetting Rotary (Reverse) Driving Livestock Test Ho Boring Dirging	le 🗌 Monitoring	Duration of pumping	5	5
Air percussion	& Air Conditioning	Final water level end of pumping (m.	^(f) 10	10
Other, specify Other, specify Construction Record - Casing	Status of Well	If flowing give rate (I/min / GPM)	15	15
Inside Open Hole OR Material Wall Depth (m/ft) Diameter (Galvanized, Fibreglass, Thickness	Water Supply	Recommended pump depth (m/ft)	20	20
(cm/in) Concrete, Plastic, Steel) (cm/in) From To	Test Hole Recharge Well	80 FT Recommended pump rate	25	25
ounch STEEL 1188 O 112FT	Dewatering Well	(Vmin / GPM) 76PM	30	30
	Observation and/or Monitoring Hole Alteration	Well production (I/min / GPM)	40	40
	Construction)	Disinfected?		50 60
Outside Dutie	Insufficient Supply	Map of V	Vell Location	
Diameter (Plastic, Galvanized, Steel) Slot No. Prom To	Water Quality	Please provide a map below following	instructions on the t	^{Dack.} S
	specify	FIRE	T tilal	/
	Other, specify		_ "Weed	:6
Water Details Ho Vater found at Depth Kind of Water: Fresh Untested Depth	ble Diameter	× ×	311764 J RWEU HWY#	-
IS Gas Other, specify From	(<i>m/ft</i>) Diameter To (<i>cm/in</i>)		Ľ	
(m/ft) Gas Other procify	1 11	Between		~
	12FT ginch 15FT Ginrh	BURHAMOR MOUNTFOR	resi	POUNTY Rd 9
Well Contractor and Well Technician Informatic				100.00
Autmon Tallostments 1.T.A	Contractor's Licence No.			
Isiness Address (Street Number/Name)		Comments:	/	
ovince Postal Códe Business E-mail Address	ESTGREY		F	
WTARID WOGII LO Is.Telephone No. (inc. area code) Name of Well Technician (Last Name, fijir	et Namo)	Vell owner's Date Package Delivere		ry Use Only
II Technician's Licence No. Signature of Technician and/or Contractor Dates		Date Work Completed	25 Audit No.Z	195649
TOD law full 20		□ Yes 2014 09		2 1 2015
06E (2007/12) © Queen's Printer for Ontario, 2007	Ministry's Copy		- 1 of Bacherry Cond	Han Vill 4 Val

Weblework information Prof. Prof.<	the Environment	"Tag #: A1	71029 ^{3e/ow)}	Bogulati		Nell	Record
Prof. New Image of the second of	Measurements recorded in: Metric Metric	TA6#A 171	029	Negulati			
Tailed And Control Argents Out - INC Include and the second argents Include argents	First Name				· u		
How Is and Isolation Annual Control Annual Control Annual Control Annual Control Allow of the Location Operation And Social Markets Market of the Location Operation (Sector Annual Control Control Location Operation Control Location Control Location Operation Control Location Operation Control Location Control Location Control Location Control Deveation Operation Control Location Control Location Control Location Operation Control Control Location Control Location Control Location Control Control Location Control Locati	1262841 ONT. INC	3	E-mail Address				
Mining I Weil Location Cambrid Weil Weil Control Weil Weil Mining I Weil Location Does and the second			Province	Postal Cod	e Telephor		
Link of 3117744 NOR MAABY Different State Control Different State Control Workshowskinster Workshowskinster Different State Control Different State Control Mail State Control Millional Ren and State Control Different State Control Different State Control Mail State Control Millional Ren and State Control Different State Control Different State Control General Control Millional Ren and State Control Different State Control Different State Control General Control Millional Ren and State Control Different State Control Different State Control General Control Millional Ren and State Control Different State Control Different State Control General Control Millional Ren and State Control Different State Control Different State Control General Control Millional Ren and State Control Different State Control Different State Control General Control Millional Ren and State Control Different State Control Different State Control General Control Millional Ren and State Control Different State Control Different State Control General Control Millional Ren and State Control Different State Control Different State Control General Control Control Different State Control Different State			CINTARIO	NOGI	CO	0.110. (//)	
Constructions Care Party Indications Care Pa	Address of Well Location (Street Number/Name)	Township					
MUSCRITE Ontaria Ontaria Ontaria Ontaria ODE CHILCO VAN 31 J. F.1. Strature Strature Other Data Data<	LIRE# 311764 County/District/Municipality	NORMANBY					1
Mail of Signal Mail of	WESTGREY	City/Town/Village			Province	Post	
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Outside Indicate Construction Record - Screen Diameter (m/tr) Observation and/or Construction Record - Screen Deamoder, Insufficiant Supply Abandoned, Insufficiant Supply Material Construction Record - Screen Diameter (m/tr) Weil production (<i>Winir / GPM</i>) 40 40 Outside Diameter (m/tr) Material Planetic, Galvanizad, Steel) Stot No. Depth (m/tr) Insufficiant Supply From Nandoned, Insufficiant Supply (m/tr) Map of Weil Location Weil contractor specify Other, specify Insufficiant Supply (m/tr) Depth (m/tr) Deameter From Note found at Depth Kind of Water: (m/tr) Frage # 311764 Weil contractor specify Intested Depth (m/tr) Deameter From To (m/tr) Deameter From Note found at Depth Kind of Water: (m/tr) Frage # 311764 Weil contractor specify Intested Depth (m/tr) Deameter From Note found at Depth Kind of Water: (m/tr) Note found at Depth Kind of Water: Fresh Intested Note found at Depth Kind of Water: Fresh			(I/min / GPM)		30	30	
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APPENDIX B: BOREHOLE LOGS



PROJE DATE LOGG	ECT NUI	MBER ETED Corbir		PROJECT LOCATION 311804 Hwy 6, Mount Forest			
DEPTH (m)	DEPTH (m) NUMBER GRAPHIC LOG			MATERIAL DESCRIPTION			
			0.46 TOPSOIL, Dark Brown, Frozen, trace SAND and GRAVEL 1.30 GRAVELLY SAND with trace SILT, dry, light brown SAND with some GRAVEL and SILT, dry, light brown 1.267 GRAVEL and SAND with trace COBBLES, dry, light greyish brown				
<u>5</u> 10			6.10 6.40 8.53 9.75	Fine-to-Medium SAND with some GRAVEL, dry, light brown SILT, SAND, and GRAVEL, dry, darker brown CLAYEY SILT, moist, greyish brown CLAY with some SILT, moist-to-saturated, greyish brown [Groundwater Inferred to be encountered @ ~9.1 mbgs during drilling] GRAVELLY SILT with some CLAY, Brownish Grey			
			11.58	Testhole Terminated at 11.60 m.			



	T <u>Tees</u>	water	Concre	te Ltd.	PROJECT NAME Aggregate Resource Assessment		
PROJE	CT NU	MBER	21804	5-1	PROJECT LOCATION 311804 Hwy 6, Mount Forest		
DATE	COMPL	ETED	02-Feb	b-2023	CONTRACTOR Choice Sonic Drilling		
LOGGE	ED BY	Corbi	n Sweet	t	METHOD Sonic Drill		
WELL	CONST	RUCT			DATE MEASURED		
ļ		1	1				
DEPTH (m) (m) SAMPLE TYPE NUMBER CRAPHIC LOG					MATERIAL DESCRIPTION		
		<u>×1</u> / ×	0.61	TOPSOIL, Dark Brown, Frozen			
			3.05	SAND and GRAVEL with some COBBLES, dry, light greyish brown			
				COBBLES and BOULDERS with SAND	and GRAVEL		
 			<u>4.88</u> 7.62	SAND and GRAVEL with trace COBBLES, dry, light brown			
-		0	8.38	SAND with some GRAVEL and trace SI	LT, dry, light brown		
			9.45	SILT and SAND, moist, brown			
<u>10</u>					'n		
SANDY SILT with trace GRAVEL and Organics, light brown, dry-to-moist				rganics, light brown, dry-to-moist			
		Ш	13.64	SILT with some CLAY, dry-to-moist, ligh	t brown		
F 1	CLAY with some SILT, stiff, grey, moist						
					Testhole Terminated at 14.60 m.		



CLIEN	Tees	water	Concrete	e Ltd.	PROJECT NAME Aggregate Resource Assessment
			218045		PROJECT LOCATION_311804 Hwy 6, Mount Forest
DATE	COMPL	ETED	02-Feb-	-2023	CONTRACTOR Choice Sonic Drilling
LOGG	ED BY	Corbi	n Sweet		METHOD Sonic Drill
WELL	CONST	RUCT			DATE MEASURED
			1		
DEPTH (m) (m) mUMBER RNUMBER LOG LOG				r	MATERIAL DESCRIPTION
		7 <u>1</u> 1 7	0.61	TOPSOIL, dark brown, frozen	
				GRAVELLY COBBLES and SAND, dry, grey	yish brown
 5			1.98	SAND and GRAVEL with COBBLES and tra - Increasing sand content below ~4.9 mbgs	ce BOULDERS, dry
			5.50		
			7.62	Fine SAND and GRAVEL with some COBBL SANDY SILT with some GRAVEL, dry-to-mo	
[]		 	8.53		
			9 75	SAND with some SILT and trace GRAVEL a	ind Organics, dry
10			9.75 10.06	SILT and CLAY, moist, mottled brown and g	rey //
	SAND and GRAVEL, dry, greyish brown				
				SAND, GRAVEL, and some SILT, dry, light	brown
15			14.63 15.85	SAND and GRAVEL with trace SILT, dry, lig	ht brown
		0	16.46	Fine to Medium SAND with some GRAVEL,	
╞╶┤				Fine-to-Medium SAND with some SILT and	GRAVEL, dry, light brown
			17.68 19.20	SAND and GRAVEL with Trace SILT, wet, b	rown
20		• • •	19.81	SAND and GRAVEL, moist-to-dry, greyish b	
SILTY Fine-to-Medium SAND, moist-to-sa			20.73	SILTY Fine-to-Medium SAND, moist-to-satu	rated, brown
Coarse SAND, saturated, brownsih gree				Coarse SAND, saturated, brownsih grey, sa	turated
					Testhole Terminated at 23.80 m.



	-			ete Ltd. PROJECT NAME Aggregate Resource Assessment		
	ECT NU				<u> </u>	
				eb-2023 CONTRACTOR Choice Sonic Drilling		
	ED BY					
WELL	CONST	RUCT		DATE MEASURED		
HIGE AND BEATH (m)						
		<u></u>	0.46	TOPSOIL, dark brown, frozen		
 <u>5</u>	SAND and GRAVEL with some COBBLES, light grey, dry					
			8.53	Medium SAND with some GRAVEL and trace SILT, greyish brown, dry		
			9.45	SAND, GRAVEL, COBBLES, and BOULDERS, greyish brown, dry _ Increasing cobbles and boulders with depth		
10			10.97			
			13.11	SAND and GRAVEL, greyish brown, dry - Decreasing gravel content with depth		
			14.02	SAND with some GRAVEL, light brown, dry		
15			14.63	 Increasing silt content with depth 		
			16.15	SILTY SAND, light brown, dry		
			17.68	SAND, GRAVEL, and COBBLES with minor thin, silty interbeds (i.e. ~0.05 m thick), dry-to-moist		
				Coarse GRAVEL and COBBLES, greyish brown, wet-to-saturated		
		R	20.12	Saturated @ ~ 19.2 mbgs		
			20.73	SILTY CLAY, firm-to-stiff, saturated, brownish grey		
	- Coarse GRAVEL with some SAND, light greyish brown, saturated					
	- Correct Documentary 22.25 SAND and GRAVEL with trace SILT, saturated, light brown					
GRAVEL with some Coarse SAND, saturated, greyish brown		GRAVEL with some Coarse SAND, saturated, greyish brown				
	SILTY SAND grading to CLAYEY SILT, saturated, light greyish brown					
		111111	26.82	Testhole Terminated at 26.80 m.		



	T Tees	swater	Concrete	e Ltd.	PROJECT NAME _Aggregate Resource Assessment PROJECT LOCATION _311804 Hwy 6, Mount Forest CONTRACTOR _Choice Sonic Drilling		
PROJ	ECT NU	MBER	218045				
DATE	COMPL	.ETED	03-Feb-	2023			
LOGG	ED BY	Corbi	n Sweet		METHOD Sonic Drill		
WELL	CONST	RUCT			DATE MEASURED		
			1				
DEPTH (m)	SAMPLE TYPE NUMBER	GRAPHIC LOG		Ν	MATERIAL DESCRIPTION		
			0.25.~	TOPSOIL, dark brown, frozen			
-			1.22	CLAYEY SILT with some SAND and GRAVE			
				SAND and GRAVEL, dry, light brown - coarser sand with depth			
5			4.57	SAND with some GRAVEL and a little SILT,	light brown, dry		
			5.49				
			6.55	Medium SAND, dry, light brown			
	_ Medium-to-Fine SAND with some SILT, dry, light brown				light brown		
- 1			8.53				
			8.99	SILT with SAND, dry, light brown SAND and GRAVEL			
10				-minor sand interbeds (~0.3 to 0.5 m thick) b	pelow ~10.6 mbgs		
			11.58	CLAY with some SILT, firm, mottled brown a	nd drov		
 			14.63				
15				SILTY CLAY with some SAND, firm, greyish	brown		
		6 Milli	15.85 16.61	Coarse SAND and GRAVEL, dry, light greyis	sh brown		
				SAND and GRAVEL with some SILT, light bu	rown, dry		
L _			17.68	- Increasing SILT with depth SILT and SAND, light brown, dry			
			.20.73				
					Testhole Terminated at 20.70 m.		



	T Tees	water	r Concrete Ltd. PRO	JECT NAME Aggregate Resource Assessment
PROJE	PROJECT NUMBER_218045-1			JECT LOCATION 311804 Hwy 6, Mount Forest
DATE	COMPL	ETED	0_03-Feb-2023 CON	TRACTOR Choice Sonic Drilling
	LOGGED BY Corbin Sweet			HOD _Sonic Drill
				E MEASURED
	Ц			
Ξ	SAMPLE TYPE NUMBER	GRAPHIC LOG		
DEPTH (m)	MB	4P0 0	MATE	RIAL DESCRIPTION
	AM₽ NU	н С С С С С		
	Ś			
			10.30 TOPSOIL, dark brown, frozen	
			1.22 CLAYEY SILT, dark brown, moist	
			Coarse SAND and GRAVEL, light brown, dry	
5				
			SILTY SAND with some minor interbeds of sand a	and gravel graviab brown, dry
				and graver, greyish brown, dry
10				
			10.97	
			11.73 Coarse-to-Medium SAND with some GRAVEL an	d trace SILT, light brown, dry
			SILTY SAND, light brown, dry	
			- Increasing silt with depth	
		0	Coarse SAND with GRAVEL, dry, light greyish bro	own
		• 🔿		
15		Pø	Coarse SAND and GRAVEL with COBBLES, light	greyish brown, dry-to-saturated
		Ō	-	
		0		
		$^{\circ}$	[Inferred Groundwater Table @ ~ 16.5 mbgs]	
		0		
		• O		
		• 🔿		
20		Þ		
		0		
		$^{\circ}$	21.64 Coarse SAND with GRAVEL, light brown, saturate	od
		Ø	- Increasing gravel and cobbles with denth	54
		$ \uparrow \uparrow$	23.77	
			SILTY SAND, light brown, saturated	
_ 25 _				
L 」			25.91	
			CLAY with some SILT, greyish brown, saturated 26.82	
	Testhole Terminated at 26.80 m.			nole Terminated at 26.80 m.



PROJE DATE LOGG	ECT NUI COMPL ED BY _	NBER ETED Corbin	Concrete Ltd. PROJECT NAME _Aggregate Resource Assessment 218045-1 PROJECT LOCATION _311804 Hwy 6, Mount Forest 03-Feb-2023 CONTRACTOR _Choice Sonic Drilling Sweet METHOD _Sonic Drill ON DATE MEASURED		
DEPTH (m)	(m) SAMPLE TYPE NUMBER GRAPHIC LOG		MATERIAL DESCRIPTION		
		<u>717</u> 7	0.61 TOPSOIL, dark brown, frozen		
L _		• • •	1.07 SAND, GRAVEL, COBBLES, and trace Organics, dark brown, moist		
			SAND, GRAVEL, and COBBLES, dark brown, moist		
5			SILT with SAND, light brown, dry-to wet - Appears wet between ~4.9 and 5.4 mbgs 5.49		
			Medium-to-Fine SAND, moist-to-dry, light brown		
 <u>10</u>	10				
		SILT and Fine SAND, wet-to-saturated, light greyish brown - Saturated ~ 10.7 mbgs - Increased compaction with depth			
45			14.63 GRAVEL, COBBLES, and Coarse SAND, saturated, brownish grey		
15			15.09 SILTY SAND, saturated, light brown		
	SAND, GRAVEL, and COBBLES, saturated, greyish brown - increasing coarse gravel and cobble content with depth 17.68 GRAVEL and COBBLES with some SAND, saturated, grey				
L			- Increasing sand and decreasing cobble content with depth		
 25					
L]		. • •	25.91		
]			26.52 Coarse SAND with some SILT, saturated, greyish brown		
			26.82 SILT with some SAND and CLAY, saturated, firm, light brown		
			Testhole Terminated at 26 80 m		



			Concrete Ltd. 218045-1			
DATE	COMPL	ETED	03-Feb-2023		_	
			n Sweet		_	
WELL	CONST	RUCT	ION	DATE MEASURED		
DEPTH (m) SAMPLE TYPE NUMBER CRAPHIC LOG				MATERIAL DESCRIPTION		
			0.30 TOPSOIL, dark brown, frozen			
 			SAND and GRAVEL with COBBLES, lig - Increasing sand content below ~4.6 n	ht greyish brown, dry nbgs		
			Interbedded Layers (i.e. 0.3 to 0.5 m thi	ck beds) of SAND, SILT, and GRAVEL, dry, brown to light brown		
			7.62 SAND, GRAVEL, and COBBLES with tr	race SILT dry light brown		
			8.53 **Rod Manipulator Rod Broke on Sonic	Drill Rig, Drilling Program Halted** Testhole Terminated at 8.50 m.	~	



PROJI DATE LOGG	ECT NU COMPL	MBER ETED Corbir	Concrete Ltd. PROJECT NAME _Aggregate Resource Assessment 218045-1 PROJECT LOCATION _311804 Hwy 6, Mount Forest 02-Feb-2023 CONTRACTOR _Teeswater Concrete n Sweet METHOD _Excavator ION DATE MEASURED
DEPTH (m)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
		<u>×17</u> <u>×1</u>	
			0.30 Medium-to-Coarse SAND and GRAVEL with COBBLES and trace BOULDERS
 3 			
 			5.50
			Testhole Terminated at 5.50 m.



CLIENT	Tees	water	Concrete Ltd.	PROJECT NAME Aggregate Resource Assessment
PROJE		BER.	218045-1	PROJECT LOCATION 311804 Hwy 6, Mount Forest
DATE	COMPLI	ETED	02-Feb-2023	CONTRACTOR Teeswater Concrete
	LOGGED BY Corbin Sweet			
WELL	WELL CONSTRUCTION			DATE MEASURED
DEPTH (m)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION	
		$\frac{\sqrt{I_2}}{\sqrt{1}}$	TOPSOIL, dark brown, frozen 0.20	
 1			Fine SAND and SILT with trace CLAY, dark	brown, moist-to-dry
			SAND and GRAVEL with some COBBLES a	Testhole Terminated at 4.00 m.



PROJI DATE LOGG	ECT NUI COMPL ED BY _	MBER ETED Corbin	R_218045-1 PRO. 0.02-Feb-2023 CON" n Sweet METH	IOD _Excavator
	CONST		TION DATE	MEASURED
DEPTH (m)	SAMPLE TYPE NUMBER	GRAPHIC LOG		RIAL DESCRIPTION
		<u>, , ,</u> ,	0.15 TOPSOIL, dark brown, frozen Fine SAND and SILT with trace CLAY, dark brown	
 			1.50	
			SAND and GRAVEL with COBBLES and trace BO	ULDERS, brown, dry
			3.66	
			SAND with some SILT and trace CLAY	
			4.60	
			Test	ole Terminated at 4.60 m.



PROJ DATE LOGG	ECT NU COMPL	MBER	Concrete Ltd. 218045-1 02-Feb-2023 n Sweet ION	PROJECT LOCATION 311804 Hwy 6, Mount Forest CONTRACTOR Teeswater Concrete
DEPTH (m)	SAMPLE TYPE NUMBER	GRAPHIC LOG		MATERIAL DESCRIPTION
				Testhole Terminated at 4.30 m.



	T Tees	water	Concrete Ltd.	PROJECT NAME Aggregate Resource Assessment
				PROJECT LOCATION 311804 Hwy 6, Mount Forest
				CONTRACTOR Teeswater Concrete
	LOGGED BY Corbin Sweet WELL CONSTRUCTION			
	CONST	RUCI	ON	DATE MEASURED
	ш			
Ξ	SAMPLE TYPE NUMBER	GRAPHIC LOG		
DEPTH (m)	JMB	LOG		MATERIAL DESCRIPTION
	AMF	ц Ц		
	S			
		<u>, 17</u> 9 17 10	0.10 TOPSOIL, dark brown, frozen GRAVELLY SILT and SAND	
		6	GRAVELLY SILT and SAND	moist-to-ury, brown
		60		
_ 1 _		60	4.07	
			1.07 SAND and GRAVEL with sor	ne COBBLES, dry-to-wet
		.•		
		.•		
2		; b ;		
		•		
		•	2.60 Reported Fine-to-Medium GE	RAVEL with some SAND, saturated
			- Static Groundwater in the t	esthole @ 2.6 mbgs
3				
			3.40	
		هيه ه. م	3.40	Testhole Terminated at 3.40 m.



CLIEN	T_Tees	water	Concrete Ltd.	PROJECT NAME Aggregate Resource Assessment
PROJE		MBER	218045-1	PROJECT LOCATION_311804 Hwy 6, Mount Forest
DATE	COMPL	ETED	03-Feb-2023	
			n Sweet	
WELL	WELL CONSTRUCTION			DATE MEASURED
DEPTH (m)	SAMPLE TYPE NUMBER	GRAPHIC LOG		MATERIAL DESCRIPTION
	SA			
		7 <u>11</u> 7		
		1/ <u>1/</u>	0.25 SAND, GRAVEL, and COBBL	ES light brown dry
		• •		
		• • •		
1				
		••••	1 22	
		٩	1.22 Interbeds of SAND with SILT	and GRAVEL, dry, light brown
			1.52	
			Fine SAND with some SILT, o	Jry, light brown
			1.83	
2			COBBLES and GRAVEL with	some coarse SAND, brownish grey
			l	
			2.74	
		ہ ن		or GRAVEL interbeds, dry, light brownish grey
3		$^{\circ}$		
		0		
		• O		
		° ()	l	
		0		
4		• O		
- 4		\circ		
		Ø O		
		0	4.40 4.50 SILT with SAND, dry, light bro	
		<u>I. F. I. I.</u>	SIET WITT OARD, dry, light bro	Testhole Terminated at 4.50 m.



CLIEN	Tees	water	Concrete Ltd.	PROJECT NAME Aggregate Resource Assessment
PROJI	ECT NUI	MBER	218045-1	PROJECT LOCATION 311804 Hwy 6, Mount Forest
DATE	COMPL	ETED	03-Feb-2023	
LOGG	ED BY	Corbir	sweet	
WELL	CONST	RUCT	ION	DATE MEASURED
		1		
	SAMPLE TYPE NUMBER	0		
DEPTH (m)	Ш В Е Е	GRAPHIC LOG		
DEF DEF	APL NUM	SRAI LC		MATERIAL DESCRIPTION
	SAN	0		
		신인물	SAND and SILT with some Organics, dry,	dark brown
1			1.00	
		X 6	SAND, GRAVEL, and COBBLES, with son	ne BOULDERS, greyish brown, dry
		20		
		10		
		20		
2		20		
		<u> </u>		
		\mathbf{i}		
		60		
3				
		• • •		
		•		
L _		6		
4		; • ;		
		.•		
		.••		
┠┤				
		. • •	4.90	
				Testhole Terminated at 4.90 m.



PROJI DATE LOGG	ECT NU COMPL ED BY CONST	MBER_2	
DEPTH (m)	SAMPLE TYPE NUMBER	CRAPHIC LOG	MATERIAL DESCRIPTION
		1/ 1/	
 			35 COBBLES, GRAVEL, and SAND with some small BOULDERS, dry, brownish grey
 <u>2</u> 			
 4			
 5		5.0	00 Testhole Terminated at 5.00 m.



CLIEN	IT Tees	water	Concrete Ltd. PR	DJECT NAME Aggregate Resource Assessment
				DJECT LOCATION 311804 Hwy 6, Mount Forest
DATE	COMPL	ETED	_03-Feb-2023 CO	NTRACTOR Teeswater Concrete
LOGG	ED BY	Corbir	n Sweet ME	THOD Excavator
WELL	WELL CONSTRUCTION			IE MEASURED
	1	-	T	
	SAMPLE TYPE NUMBER			
DEPTH (m)		GRAPHIC LOG	MAT	
Ъ Е Б С Е Г		LO	MA I	ERIAL DESCRIPTION
	SAN	0		
		<u>, 1, 1, 1, 1, 1</u>	TOPSOIL, dark brown, frozen	
		1, 11,	0.30	
L _			SAND, GRAVEL, and COBBLES with trace SILT	and Organics, dark brown, dry
F			0.91	
1			Fine-to-Medium laminated SAND, dry, brown	
			1.68 COBBLES, GRAVEL, and Coarse-to-Medium SA	ND. brownish arev. drv
			<	
2				
L _			•	
3			•	
		· •	<	
L _				
4		; N.		
		; N.		
L _				
			4.90 Tes	thole Terminated at 4.90 m.



CLIEN	T Tees	water	Concrete Ltd.	PROJECT NAME Aggregate Resource Assessment
			218045-1	
DATE	COMPL	ETED	03-Feb-2023	
LOGG	ED BY_	Corbir	Sweet	METHOD Excavator
WELL	CONST	RUCT	ON	DATE MEASURED
Ξ	SAMPLE TYPE NUMBER	S L		
DEPTH (m)	JMB	GRAPHIC LOG		MATERIAL DESCRIPTION
	SAM NI	ġ		
		<u>, 17</u>	TOPSOIL, dark brown, frozen	
			0.20 SANDY SILT with trace CLAY, dry, brown	
_ 1 _				
			1.22 COBBLES, GRAVEL, and SAND with trace	BOULDERS dry brownish grey
		<u>i</u> R		boold Like, aly, blownion groy
		XX		
2				
		$\mathbf{\lambda}$		
		A		
		ξQ.		
3				
[]				
		X		
			3.70	Testhole Terminated at 3.70 m.



	T Tees	water	Concrete Ltd.	PROJECT NAME Aggregate Resource Assessment
PROJE		MBER	218045-1	PROJECT LOCATION 311804 Hwy 6, Mount Forest
DATE	COMPL	ETED	03-Feb-2023	
LOGG	ED BY_	Corbir	n Sweet	_ METHOD _ Excavator
			ION	DATE MEASURED
		1		
	SAMPLE TYPE NUMBER	0		
DEPTH (m)	ШШЦ	GRAPHIC LOG		
ЦЦ П П	IUM	LOL		MATERIAL DESCRIPTION
	SAN	0		
		<u>717</u>	TOPSOIL, dark brown, frozen	
		1. 31.	0.30	
		.	COBBLES, SAND, and GRAVEL, brownis	sh grey, dry
- ' -				
		• • •		
2				
			2.70	
		ÎĨ	SAND and SILT with some GRAVEL, ligh	t brown, dry
3				
4				
			4.00	
			4.30	Testhole Terminated at 4.30 m.



CLIEN	T Tees	water	Concrete Ltd. PRO	PROJECT NAME Aggregate Resource Assessment		
PROJE	ECT NUI	MBER	R_218045-1 PRO	JECT LOCATION 311804 Hwy 6, Mount Forest		
DATE	COMPL	ETED	02-Feb-2023 CON	TRACTOR Teeswater Concrete		
LOGG	ED BY	Corbir		HOD Excavator		
WELL	CONST	RUCT	TION DAT	E MEASURED		
-	SAMPLE TYPE NUMBER	U				
DEPTH (m)	ЧЧЧ	GRAPHIC LOG	MATE	RIAL DESCRIPTION		
	NUN	GR/				
	SA					
		<u></u>				
			0.25 COBBLES, GRAVEL, Coarse SAND, and BOULD	ERS, dry, minor imbrications,		
		•				
1						
		} ``				
2		-				
3						
		; • ;	٩			
4						
			4			
5			•			
F 1			<			
			5.50			
			Test	hole Terminated at 5.50 m.		



PROJE DATE LOGG	ECT NUI COMPL ED BY _	MBER ETED Corbir	Concrete Ltd. PROJECT NAME _Aggregate Resource Assessment _218045-1 PROJECT LOCATION _311804 Hwy 6, Mount Forest _03-Feb-2023 CONTRACTOR _Teeswater Concrete n Sweet METHOD _Excavator ION DATE MEASURED
DEPTH (m)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
		<u>x17</u> , <u>x</u> 1	TOPSOIL, dark brown, frozen
			0.30 SAND and GRAVEL with COBBLES, light brown, dry
			SAND, SILT, and GRAVEL with some COBBLES



CLIEN	T Tees	water	Concrete Ltd.	PROJECT NAME Aggregate Resource Assessment
				PROJECT LOCATION 311804 Hwy 6, Mount Forest
DATE	COMPL	ETED		CONTRACTOR Teeswater Concrete
		-		METHOD Excavator
	WELL CONSTRUCTION			DATE MEASURED
DEPTH (m)	SAMPLE TYPE NUMBER	GRAPHIC LOG		IATERIAL DESCRIPTION
			TOPSOIL, dark brown, frozen	
		<u>산 , 사</u> 지역 10	0.30	
		.0.	SILT and Fine SAND with some GRAVEL an	d trace COBBLES, dry, light brown
		000		
1				
		6		
		° 0 0		
		. q d		
2				
		°]d C		
		° d d		
		60		
		, q q		
		<u>.</u> 0°		
3				
		600		
			3.40	
				Testhole Terminated at 3.40 m.





PROJ DATE LOGG	ECT NU COMPL	MBER ETED Corbin	Concrete Ltd. PROJECT NAME Aggregate Resource Assessment 218045-1 PROJECT LOCATION 311804 Hwy 6, Mount Forest 02-Feb-2023 CONTRACTOR Teeswater Concrete 0 Sweet METHOD Excavator ION DATE MEASURED
DEPTH (m)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
L -	-	<u>1' 711'</u> 7 <u>11'</u>	TOPSOIL, dark brown, frozen
 			0.30 SAND, GRAVEL, COBBLES, and BOULDERS, dry, light greyish brown
	-		
 <u>5</u>			5.18 SAND and SILT with some GRAVEL, dry, light brown
			5.50
			Testhole Terminated at 5.80 m.



PROJI DATE	ECT NU	MBER ETED	Concrete Ltd. PROJECT NAME _Aggregate Resource Assessment 218045-1 PROJECT LOCATION _311804 Hwy 6, Mount Forest 02-Feb-2023 CONTRACTOR _Teeswater Concrete
LOGGED BY Corbin Sweet WELL CONSTRUCTION			
DEPTH (m)	SAMPLE TYPE NUMBER	GRAPHIC LOG	MATERIAL DESCRIPTION
		<u>x 1</u> , x 1, x 1,	TOPSOIL, dark brown, frozen
 			0.32 SAND, GRAVEL, and COBBLES, dry, light brown
 			1.83 SAND with some minor interbeds of fine-to-coarse GRAVEL, brown, dry
 			3.35 GRAVEL with some coarse SAND and trace COBBLES, light brown, dry 5.18
			Interbedded SAND and GRAVEL, light brown, dry
		<u>k. • . • . •</u>	Testhole Terminated at 5.50 m.



CLIENT _Teeswater Concrete Ltd. PROJECT NUMBER_218045-1 DATE COMPLETED_02-Feb-2023 LOGGED BY _Corbin Sweet WELL CONSTRUCTION				PROJECT LOCATION 311804 Hwy 6, Mount Forest CONTRACTOR Teeswater Concrete
DEPTH (m)	SAMPLE TYPE NUMBER	GRAPHIC LOG		MATERIAL DESCRIPTION
			TOPSOIL, dark brown, frozen 0.25 SAND, GRAVEL, COBBLES, and BOU - Less boulders / cobbles below ~3.0 r	JLDERS mbgs



CLIEN	T_Tees	water	Concrete Ltd.	PROJECT NAME Aggregate Resource Assessment
PROJECT NUMBER_218045-1				PROJECT LOCATION 311804 Hwy 6, Mount Forest
DATE COMPLETED 02-Feb-2023				
LOGGED BY Corbin Sweet				
WELL	CONST	RUCTI	ON	
		, , ,		
	SAMPLE TYPE NUMBER			
DEPTH (m)	ШШЦ	GRAPHIC LOG		
ЦЩ ЦЩ ЦЩ ЦЩ		LC		MATERIAL DESCRIPTION
	SAN			
		<u>717</u> 71	TOPSOIL, dark brown, f	rozen
		1/ 1/		
			SAND, GRAVEL, and C	OBBLES with minor (~0.05m) interbeds of fine SAND, light brown, dry
-				
1		í de la comunicación de la comun		
		60		
-		r I		
-		<u> </u>		
		10		
2				
<u> </u>		25		
		• • •	2.44	
			Fine SAND with trace SI	LT, dry, light brown
			2.82	
		•	SAND, GRAVEL, and C	OBBLES, dry, light brown
3		28		
-		.•		
		58		
		.• (
Γ				
4				
			4.30	
			4.00	Testhole Terminated at 4.30 m.



r Concrete Ltd.	PROJECT NAME Aggregate Resource Assessment	
R _218045-1	PROJECT LOCATION 311804 Hwy 6, Mount Forest	
D _02-Feb-2023	CONTRACTOR Teeswater Concrete	
	DATE MEASURED	
3	MATERIAL DESCRIPTION	
TOPSOIL, dark brown, frozen		
<u>//</u>]0.30		
3.70		
	Testhole Terminated at 3.70 m.	
	R 218045-1	



CLIEN	T Tees	water	Concrete Ltd.	PROJECT NAME Aggregate Resource Assessment	
PROJECT NUMBER_218045-1				PROJECT LOCATION 311804 Hwy 6, Mount Forest	
DATE COMPLETED_02-Feb-2023					
			Sweet		
			ON	DATE MEASURED	
	SAMPLE TYPE NUMBER	0			
DEPTH (m)		GRAPHIC LOG		MATERIAL DESCRIPTION	
DEI D	NUN	LC			
	SAI				
		7 <u>11</u> 7	TOPSOIL, dark brown, frozen		
		1/ . 11/			
		<u>. 16 1</u>	0.40 SAND, GRAVEL, and COBBLES, dry, ligi	ht groviah brown	
		•	SAND, GRAVEL, and COBBLES, dry, ligh		
1		•			
		• •			
		• •			
L _					
2		•			
		• •			
		•			
3		•			
		•			
-		•			
4					
		.•	4.30		
			7.00	Testhole Terminated at 4.30 m.	



CLIENT _ Teeswater Concrete Ltd.				OJECT NAME Aggregate Resource Assessment
PROJECT NUMBER_218045-1				OJECT LOCATION 311804 Hwy 6, Mount Forest
DATE COMPLETED 02-Feb-2023				NTRACTOR Teeswater Concrete
LOGGED BY Corbin Sweet				THOD Excavator
WELL CONSTRUCTION				TE MEASURED
			1	
	Ш			
Ξ,	SAMPLE TYPE NUMBER	GRAPHIC LOG		
DEPTH (m)	UME	ZAP LO(MAT	ERIAL DESCRIPTION
	MA NI	G		
	0)	SA 14 - SA		
		1/ 1/ 1/ 1/1/ 1/	TOPSOIL, dark brown, frozen	
		<u></u>	0.40	
[]		X	SAND, GRAVEL, and COBBLES, dry, light grey	ish brown
		20		
		i No		
		20		
		176		
		$\overline{\mathbf{A}}$		
		i to		
		20		
2				
		<u> </u>		
-				
		<u> </u>		
		i to		
		6 • •		
3		i to		
		í P		
		609		
		60		
4		1 • • •		
			4.30	sthole Terminated at 4.30 m.

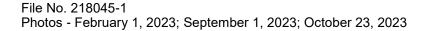
APPENDIX C: SITE PHOTOGRAPHS



Photograph 1: Proposed Pit Area (Sept 1, 2023).



Photograph 2: Existing Pit Area (Sept 1, 2023).



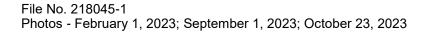




Photograph 3: Existing Pit Area and Proposed Pit Area (Sept 1, 2023).



Photograph 4: Southerly Wetland Area (Oct 23, 2023).







Photograph 5: Southerly Wooded Area (Sept 1, 2023).



Photograph 6: Site Terrain (Oct 23, 2023).





Photograph 7: Sand and Gravel subsurface material (Oct 23, 2023).



Photograph 8: Test Pit profile (Feb 1, 2023).





Photograph 9: Test Pit profile (Feb 1, 2023).



Photograph 10: Drilling Set-up (Feb 1, 2023).





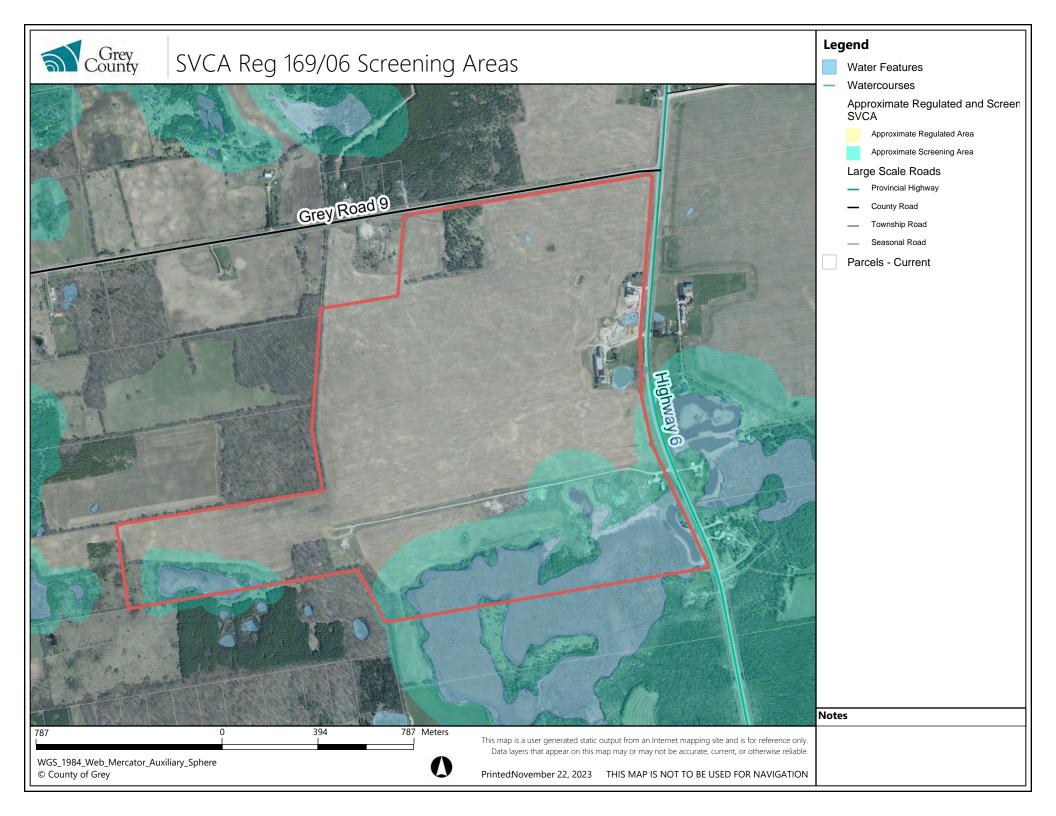
Photograph 11: Material Samples (Feb 1, 2023).



Photograph 12: Material Samples (Feb 1, 2023).



APPENDIX D: SAUGEEN VALLEY CONSERVATION AUTHORITY MAPPING



APPENDIX E: GREY COUNTY OFFICIAL PLAN MAPPING AND INFORMATION

