

TECHNICAL MEMORANDUM

DATE: June 25, 2019

TO: Dilip Kummar Jaim
2528061 Ontario Inc.
63 Ravenwood Road,
Brantford, On, N3R 7T1

CC: Jason Afonso,
700 - 10 Kingsbridge Garden Circle
Mississauga, ON L5R 3K6

FROM: Erti Mansaku, P.Eng.,
Project Manager

EMAIL: emansaku@golder.com

MONITORING WELL INSTALLATION WITHIN 2528061 INC.

Golder Associates Ltd. (Golder) carried out monitoring well installations within the Ontario 2528061 Inc. property (the Site), located north/east of the intersection of Mayfield Road and Kennedy Road, in the southern part of the Town of Caledon, Ontario. The terms of reference for well installations were included in Golder's proposal No. P19115264 Rev 1, dated March 8, 2019.

As part of the geotechnical/hydrogeological investigation at the Site, a total of five (5) boreholes (designated BH/MW19-08, BH/MW 19-09, BH19-12, and BH/MW19-13), were drilled by Golder in March/April 2019, which included the installation of five monitoring wells.

The approximate locations of the monitoring wells are shown on the Site and Borehole Location Plan, **Figure 1** and the borehole record sheets are enclosed below, preceded by the *Method of Soil Classification, Abbreviations and Terms Used on Records of Boreholes and Test Pits, and List of Symbols* sheets that are provided for use in interpreting the borehole records.

We trust that this memo provides sufficient information of the work that was carried out the Site. If you have any questions regarding the contents of this memo or require additional information, please do not hesitate to contact this office.

Attachments: Figure 1 - Site and Borehole Location Plan

Borehole Logs - BH/MW 19-02 to BH/MW 19-13



- LEGEND**
- Approximate Borehole Location (Golder, 2019)
 - Approximate Borehole and Monitoring Well Location (Golder, 2019)
 - Approximate Previous Geotechnical Borehole (Edward Wong, 2017)
 - Watercourse
 - Waterbody
 - Wetland
 - Site Boundaries
 - Snells Hollow Secondary Plan Area



CLIENT
SNELL'S HOLLOW DEVELOPERS GROUP

CONSULTANT	YYYY-MM-DD	2019-04-16
	DESIGNED	MM
	PREPARED	MM
	REVIEWED	EM
	APPROVED	KB



REFERENCE(S)

- IMAGERY: ESRI, HERE, DELORME, INTERMAP, INCREMENT P CORP., GEBCO, USGS, FAO, NPS, NRCAN, GEOBASE, IGN, KADASTER NL, ORDNANCE SURVEY, ESRI JAPAN, METI, ESRI CHINA (HONG KONG), SWISSTOPO, MAPMYINDIA, © OPENSTREETMAP CONTRIBUTORS, AND THE GIS USER COMMUNITY
© 2019 MICROSOFT CORPORATION © 2019 DIGITALGLOBE © CNES (2019) DISTRIBUTION AIRBUS DS
- BASE DATA: LIO MNRF 2019
- PROJECTION: TRANSVERSE MERCATOR NAD 1983 UTM ZONE 17N

PROJECT
SNELL'S HOLLOW SECONDARY PLAN, SLOPE STABILITY ASSESSMENT, CALEDON, ONTARIO

TITLE
SITE AND BOREHOLE LOCATION PLAN

PROJECT NO.	CONTROL	REV.	FIGURE
19115264	0001	-	1

PATH: S:\Clients\Snells_Hollow_Developers_Group\Mayfield_Rd_Caledon\19115264\01_SlopeStabilityAssessment\19115264-001-001.mxd PRINTED ON: 2019-06-04 AT: 2:12:32 PM

IF THIS MEASUREMENT DOES NOT MATCH WHAT IS SHOWN, THE SHEET SIZE HAS BEEN MODIFIED FROM: ANSI B

PROJECT: 19115264-1000/2000

LOCATION: Lat. 43.747664 Long. -79.814643

(See Figure 1)

RECORD OF BOREHOLE: BH/MW19-02

BORING DATE: April 2, 2019

SHEET 1 OF 2

DATUM: Geodetic

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE			SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH				WATER CONTENT PERCENT					
								Cu, kPa		nat V. + Q - rem V. ⊕ U - ●		Wp — W — Wi					
								20	40	60	80	10 ⁻⁶	10 ⁻⁵	10 ⁻⁴			10 ⁻³
								20	40	60	80	10	20	30	40		
0		GROUND SURFACE		257.20													
	CME 75 Track Mount Power Auger 100 mm Solid Stem	TOPSOIL (610 mm)		0.00													
				256.59	1	SS	4										
				0.61													
		(CL)SILTY CLAY, some to trace sand, trace gravel, trace organics; brown/dark brown with oxidation staining; w>PL, firm		256.35	2A	SS											
1				0.85	2B	SS	8										
		(CL) sandy SILTY CLAY, trace gravel; light brown with oxidation staining, (TILL); cohesive, w~PL, firm to stiff															
		- Silt/sand seams/layers below 1.7 m															
2						3	SS	8									
						4	SS	13									
3																	
					5	SS	9										
4		(CL-ML) CLAYEY SILT, some to trace sand, trace gravel; grey, (TILL); cohesive, w>PL, very stiff to stiff to hard		253.24													
				3.96													
5					6	SS	15										
6																	
7					7	SS	13										
8					8	SS	17										
9		- Becoming sandy at 9.1 m															
		- Auger grinding at a depth of 9.5 m to 11 m			9	SS	57										
10																	
		CONTINUED NEXT PAGE															

DEPTH SCALE

1 : 50

**GOLDER**

LOGGED: JD

CHECKED: EM

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PROJECT: 19115264-1000/2000

LOCATION: Lat. 43.747664 Long. -79.814643

(See Figure 1)

RECORD OF BOREHOLE: BH/MW19-02

BORING DATE: April 2, 2019

SHEET 2 OF 2

DATUM: Geodetic

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m										
								SHEAR STRENGTH Cu, kPa		nat V. + Q - rem V. ⊕ U - ○		WATER CONTENT PERCENT					
								20	40	60	80	10 ⁻⁶	10 ⁻⁵			10 ⁻⁴	10 ⁻³
10	CME 75 Track Mount Power Auger 100 mm Solid Stem	--- CONTINUED FROM PREVIOUS PAGE ---		247.44 10.06													
		(SW-SM) SAND to SILTY SAND, medium grained, contains inferred cobbles/boulders; light brown; non-cohesive, wet, compact to very dense															
11				10	SS	26											
12		- Cobbles/boulders inferred from auger grinding at a depth of 12 m															
					11	SS	52										
13		END OF BOREHOLE.		244.40 12.80													
14		Notes: 1. Water level measured in monitoring well as follows: Deep Well Date Depth Elev. (m) April 2, 2019 12.67 mbgs 244.53 m April 17, 2019 6.27 mbgs 250.93 m Shallow Well Date Depth Elev. (m) April 17, 2019 0.25 mbgs 256.95 m															
15																	
16																	
17																	
18																	
19																	
20																	

DEPTH SCALE

1 : 50

**GOLDER**

LOGGED: JD

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PROJECT: 19115264-1000/2000

LOCATION: Lat. 43.747266 Long. -79.811592

(See Figure 1)

RECORD OF BOREHOLE: BH/MW19-08

BORING DATE: April 5, 2019

SHEET 1 OF 2

DATUM: Geodetic

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE			SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m										
								SHEAR STRENGTH		nat V. + Q -		WATER CONTENT PERCENT					
								Cu, kPa		rem V. ⊕	U - ○	Wp	W	Wi			
							20	40	60	80		10 ⁻⁶	10 ⁻⁵	10 ⁻⁴	10 ⁻³		
							20	40	60	80		10	20	30	40		
0		GROUND SURFACE		263.00													
	CME 75 Track Mount Power Auger 100 mm Solid Stem	TOPSOIL (350 mm)		0.00	1A	SS	2										
		(CL) SILTY CLAY, trace sand and gravel, trace organics; dark brown; cohesive, w~PL, very soft to soft		262.65	1B	SS											
				0.35													
				262.24													
1		(CL) sandy SILTY CLAY, trace gravel; light brown, (TILL); cohesive, w<PL, very stiff		0.76	2	SS	16						○				
2						3	SS	26					○				
					4	SS	24										
3																	
					5A	SS	30						○				
		(CI-ML) CLAYEY SILT, trace to some sand and gravel, contains inferred cobbles/boulders; grey, (TILL); cohesive, w>PL to w~PL, very stiff to hard		259.43	5B	SS							○				
4				3.57													
5		- Cobbles/boulders inferred from auger grinding at a depth of 5 m			6	SS	16						○				
6																	
					7	SS	19										
7																	
8					8	SS	50						○				
9																	
					9	SS	30						○				
				253.25													
				9.75													
10		END OF BOREHOLE.															
		CONTINUED NEXT PAGE															

DEPTH SCALE

1 : 50

**GOLDER**

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PROJECT: 19115264-1000/2000

LOCATION: Lat. 43.747266 Long. -79.811592

(See Figure 1)

RECORD OF BOREHOLE: BH/MW19-08

BORING DATE: April 5, 2019

SHEET 2 OF 2

DATUM: Geodetic

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH		WATER CONTENT PERCENT						
								Cu, kPa	nat V. + rem V. ⊕	Q - U -	● ○	Wp	W			WI
							20	40	60	80		10 ⁻⁶	10 ⁻⁵	10 ⁻⁴	10 ⁻³	
10		--- CONTINUED FROM PREVIOUS PAGE ---														
		Notes: 1. Water level measured in monitoring well as follows: Date Depth Elev. (m) April 5, 2019 3.96 mbgs 259.04 m April 17, 2019 1.24 mbgs 261.76 m 2. PP= unconfined compressive strength measured with pocket penetrometer in the field.														
11																
12																
13																
14																
15																
16																
17																
18																
19																
20																

DEPTH SCALE

1 : 50

**GOLDER**

LOGGED: JD

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PROJECT: 19115264-1000/2000

LOCATION: Lat. 43.745322 Long. -79.814288

(See Figure 1)

RECORD OF BOREHOLE: BH/MW19-09

BORING DATE: April 3, 2019

SHEET 1 OF 2

DATUM: Geodetic

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION		
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m										
								SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT					
								20	40	60	80	10 ⁻⁶	10 ⁻⁵	10 ⁻⁴	10 ⁻³		
								nat V. + Q - ● rem V. ⊕ U - ○				Wp — W — WI					
								20	40	60	80	10	20	30	40		
0		GROUND SURFACE		256.95													
	CME 75 Track Mount Power Auger 100 mm Solid Stem	TOPSOIL (430 mm)		0.00													
		(CL) sandy SILTY CLAY, trace organics, trace gravel; light brown mottled with oxidation staining; cohesive, w<PL, soft		256.52	1A	SS	3										PP = 125 kPa
				0.43 256.34	1B	SS											
		(CL) SILTY CLAY, some sand, trace gravel, inferred cobbles; brown mottled with oxidation staining, (TILL); cohesive, w<PL, very stiff		0.61													PP = 440 kPa
1						2	SS	17									
2													○				PP = 440 kPa
			- SAND and silty clay encountered at a depth of 2.3 m to 5.5 m											○			
3																	Bentonite
		- Cobbles/boulders inferred from auger grinding at a depth of 3 m															PP = 245 kPa
4																	
		(CL-ML/CL) CLAYEY SILT to SILTY CLAY, trace sand, trace gravel; grey, (TILL); cohesive, w~PL, stiff		252.99 3.96													PP = 125 kPa
5																	
6																	
		(SM-SW) SILTY SAND to sand, medium grained, some silt, trace gravel; light brown; non-cohesive, wet, compact		251.16 5.79													Sand

DEPTH SCALE

1 : 50



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PROJECT: 19115264-1000/2000

LOCATION: Lat. 43.745322 Long. -79.814288

(See Figure 1)

RECORD OF BOREHOLE: BH/MW19-09

BORING DATE: April 3, 2019

SHEET 2 OF 2

DATUM: Geodetic

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE			SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa		nat V. + Q - rem V. ⊕ U - ○		WATER CONTENT PERCENT Wp — W — Wi					
								20	40	60	80	10 ⁻⁶	10 ⁻⁵	10 ⁻⁴			10 ⁻³
10		--- CONTINUED FROM PREVIOUS PAGE --- the field.															
11																	
12																	
13																	
14																	
15																	
16																	
17																	
18																	
19																	
20																	

DEPTH SCALE

1 : 50

**GOLDER**

LOGGED: JD

CHECKED: EM

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PROJECT: 19115264-1000

LOCATION: Lat. 43.748408 Long. -79.813559

(See Figure 1)

RECORD OF BOREHOLE: BH19-12

BORING DATE: April 4, 2019

SHEET 1 OF 2

DATUM: Geodetic

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE			SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION			
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m												
								SHEAR STRENGTH Cu, kPa				WATER CONTENT PERCENT							
								20	40	60	80	nat V. rem V.	+ ⊕	Q - U -			● ○	10 ⁻⁶	10 ⁻⁵
								20	40	60	80		10	20	30	40			
0		GROUND SURFACE		266.33															
	CME 75 Track Mount Power Auger 100 mm Solid Stem	TOPSOIL (380 mm)		0.00	1A	SS	5												
		(CL) sandy SILTY CLAY, trace gravel, trace organics; brown with oxidation staining; w<PL, firm		265.95	1B	SS													PP = 25 kPa
				0.38															
1		(CL) sandy SILTY CLAY, trace gravel; brown with oxidation staining, (TILL); cohesive, w<PL, stiff to hard		265.57															
				0.76	2	SS	10												PP = 220 kPa MH
2						3	SS	9											PP = 220 kPa
						4	SS	30											PP = 440 kPa
3		- Cobbles inferred from auger grinding at 3 m																	
					5	SS	33											PP = 345 kPa	
4																			
		(SM) gravelly SILTY SAND, trace clay nodules, slight plasticity; light brown; non-cohesive, moist, dense to very dense		262.23															
				4.10	6A	SS													
5					6B	SS	113											MH	
		- Cobbles/boulders inferred from auger grinding at 5.3 m																	
6																			
		- Becoming silty sand, some gravel below a depth of 6.2 m			7	SS	150											MH	
7																			
8					8	SS	32												
9																			
		- Contains layers of fine sand and silt, some clay below depth of 9.2 m			9	SS	47											MH	
10																			
					10	SS	42												
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DEPTH SCALE

1 : 50

**GOLDER**

LOGGED: JD

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PROJECT: 19115264-1000

LOCATION: Lat. 43.748408 Long. -79.813559

(See Figure 1)

RECORD OF BOREHOLE: BH19-12

BORING DATE: April 4, 2019

SHEET 2 OF 2

DATUM: Geodetic

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa		nat V. + Q - rem V. U -		WATER CONTENT PERCENT Wp — W — Wi			
								20	40	60	80	10 ⁻⁶	10 ⁻⁵		
		--- CONTINUED FROM PREVIOUS PAGE ---													
10		(SM) gravelly SILTY SAND, trace clay nodules, slight plasticity; light brown; non-cohesive, moist, dense to very dense		255.81	10	SS	42								
		END OF BOREHOLE.		10.52											
11		Notes: 1. Borehole dry upon completion of drilling. 2. PP= unconfined compressive strength measured with pocket penetrometer in the field.													
12															
13															
14															
15															
16															
17															
18															
19															
20															

DEPTH SCALE

1 : 50

**GOLDER**

LOGGED: JD

CHECKED: EM

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PROJECT: 19115264-1000/2000

LOCATION: Lat. 43.749709 Long. -79.812182

(See Figure 1)

RECORD OF BOREHOLE: BH/MW19-13

BORING DATE: April 4, 2019

SHEET 1 OF 2

DATUM: Geodetic

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE			SAMPLES			DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION								
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH				WATER CONTENT PERCENT													
								20		40		60		80				10 ⁻⁶		10 ⁻⁵		10 ⁻⁴		10 ⁻³	
								SHEAR STRENGTH Cu, kPa		nat V. + rem V. ⊕		Q - ● U - ○		Wp				W		WI					
								20	40	60	80		10	20	30	40									
0	CME 75 Track Mount Power Auger 100 mm Solid Stem	GROUND SURFACE		267.61																					
		TOPSOIL (300 mm)		0.00	1A	SS																			
		(CL) SILTY CLAY, some sand, trace organics; dark brown; cohesive, w<PL, firm		267.31	1B	SS	5																		
				0.30																					
1		(CL) SILTY CLAY and SAND, trace gravel, inferred cobbles/boulders; mottled light brown/brown, (TILL); w<PL, very stiff to hard		266.65	2	SS	17																		
				0.96																					
		- Cobbles/boulders inferred from auger grinding at 1.7 m			3	SS	19																		
2																									
						4	SS	22																	
3																									
						5	SS	33																	
4		(SM) gravelly SILTY SAND, cobbles/boulders inferred from auger grinding; light brown; non-cohesive, dry to moist, very dense		263.61																					
				4.00																					
					6	SS	154																		
5		- Heavy auger grinding below depth of 5.4 m																							
6																									
7					7	SS	115																		
8	(ML) sandy SILT, with slight plasticity, trace gravel; light brown; moist, very dense		259.99	8	SS	138																			
			7.62																						
9																									
					9	SS	137																		
10																									
					10	SS	146																		
		CONTINUED NEXT PAGE																							

DEPTH SCALE

1 : 50

**GOLDER**

LOGGED: JD

CHECKED: EM

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17/04/2019

PROJECT: 19115264-1000/2000

LOCATION: Lat. 43.749709 Long. -79.812182

(See Figure 1)

RECORD OF BOREHOLE: BH/MW19-13

BORING DATE: April 4, 2019

SHEET 2 OF 2

DATUM: Geodetic

DEPTH SCALE METRES	BORING METHOD	SOIL PROFILE		SAMPLES		DYNAMIC PENETRATION RESISTANCE, BLOWS/0.3m				HYDRAULIC CONDUCTIVITY, k, cm/s				ADDITIONAL LAB. TESTING	PIEZOMETER OR STANDPIPE INSTALLATION	
		DESCRIPTION	STRATA PLOT	ELEV. DEPTH (m)	NUMBER	TYPE	BLOWS/0.3m	SHEAR STRENGTH Cu, kPa		nat V. + Q - rem V. U -		WATER CONTENT PERCENT				
								20	40	60	80	10 ⁻⁶	10 ⁻⁵			10 ⁻⁴
10		--- CONTINUED FROM PREVIOUS PAGE --- (ML) sandy SILT, with slight plasticity, trace gravel; light brown; moist, very dense		257.09 10.52	10	SS	146									
11		END OF BOREHOLE.														
12		Notes: 1. Borehole dry upon completion of drilling. 2. Water level measured in monitoring well as follows: Date Depth Elev. (m) April 17, 2019 9.45 mbgs 258.16 m 3. PP= unconfined compressive strength measured with pocket penetrometer in the field.														
13																
14																
15																
16																
17																
18																
19																
20																

DEPTH SCALE

1 : 50

**GOLDER**

LOGGED: JD

CHECKED: EM

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