BORING REPORT
(Inclined boring)

Boring N° **BH-18-13**

DEPTH (m)	DEPTH (ft)	ELEVATION / VERT. DEPTH (m)	DESCRIPTION OF THE SOIL AND ROCK	FRACTURES per m	RQD (%)	RECOVERY (%)	R RESISTANCE (ISRM)	Jn (Barton)	Jr (Barton)	Ja (Barton)	Q-VALUE (Barton)	Hydraulic conductivity k (m/s)
			Destructive boring (no soil sampling).									
		40.21										
		8.69	Bedrock: Alternation of very fine grey limestone in beds of 8 to 20 cm and of black clayey limestone (with a bit of calcareous shale) in beds of 1 to 6 cm. Well bedded sequence, little fossiliferous. Few thin sub-vertical veins of calcite, oblique joints. Rock generally sound. Mecanical breaks parallel to the clayey bedding.	2	98	100	R3	3	1	1	6.5	
9	30											
10					43	95	R3	3	1	1	2.9	
11	35				93	100	R3	2	1	1	9.3	
12	40			2	100	100	R3	3	1	1	6.7	
13												
14	45			3	80	100	R3	3	1	2	2.7	
15	50				65	100	R3	3	1	1	4.3	
16												
17	55			5	96	100	R3	3	1	1	6.4	
18	60			3	89	95	R3	3	1	1	5.9	
		31.91										
19		18.95 / 31.88 / 18.98	Very weathered and fissured rock. Filling with black silt and clay (2-3 cm).	0	100	100	R3	0.5	1	1	40.0	
20	65			2								
21	70		From 20.89 to 20.91 m : Weathered shale. Interbed of black silt and clay. At 20.90 m : More abundant and thicker black clayey beds (8-12 cm). Closed joints and microfissures, sub-vertical showing the displacement (< 1 cm).	4	94	100	R3	2	1	2	4.7	1.3×10^{-6}
22				4	98	99	R3	4	1	1	4.9	
23	75		At 22.85 m : Partially fractured rock over 50 cm.	5								
24					94	100	R4	3	1	1	6.3	
	80	27.35										
25		24.58	Distinct contact between limestone and sill of very bulky grey intermediate porphyric rock. Wall rock zone over about 50 cm. Very bulky intrusive between depths of 25.10 m		67	100	R4	3	1	2	2.2	2.6×10^{-7}

Remark(s):
From 55.31m to 55.57m: Uo = 178.53 MPa
From 51.67m to 51.95m: Uo = 119.87 MPa

Legend of the geologic formations

- Breccia zone
- Intrusive
- Utica
- Tétreauville (undulated facies)
- Tétreauville (bedded facies)
- Marble zone
- Montreal (member of Rosemont)
- Montreal (member of Saint-Michel) or prior
- Montreal (member of Saint-Michel) or prior (non-fossiliferous facies)

Legend of the structures:

- Highly fractured zone
- Loss of drilling water
- Gouged
- Lost core

Production date 2013-09-20