

TUNNEL: 1MB

MACHINE: TBM1

DATE: 7/2/18

REF. N°:

CHAINAGE: 5+318

RING: 3586

HOUR: 10:45

296

Mapping performed:

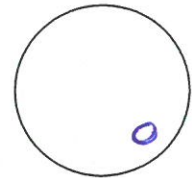
☒ Yes

☐ No

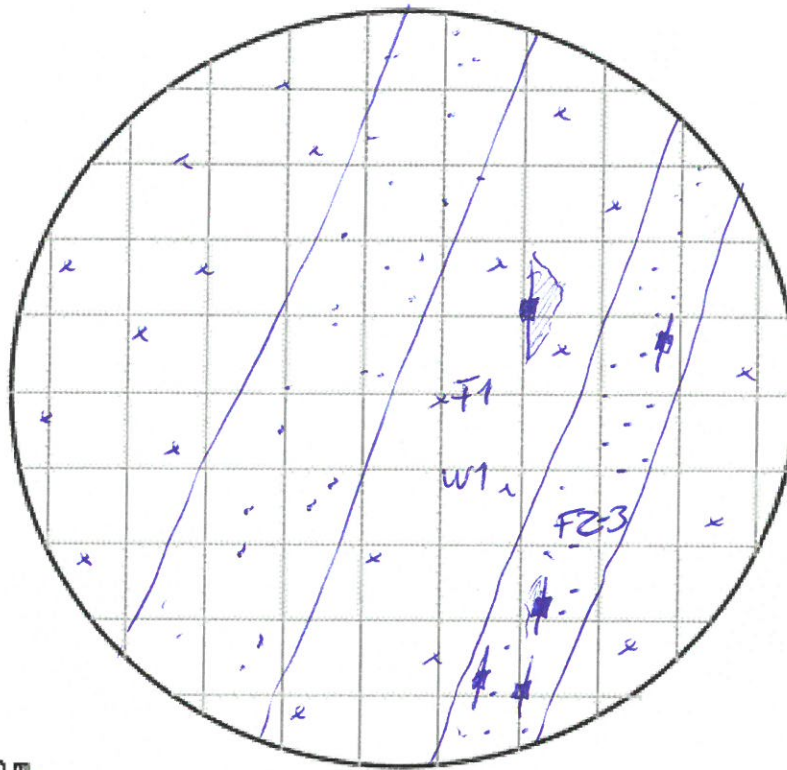
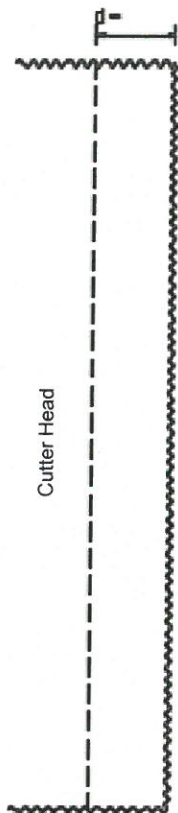
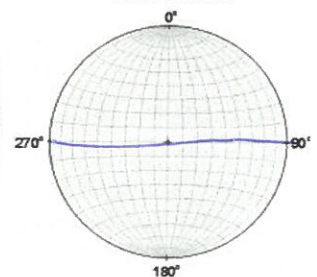
Plan view

Face of the Excavationm

Schematic position of the cutter head while mapping



Schematic Rock Mass Structure



- 1.0 m
- Light Gneiss
  - Dark Gneiss
  - Pegmatite
  - Foliation
  - Joint Set (sub. Vertical)
  - Joint Set (Sub Horizontal)
  - Joint Set (Strike Slip)
  - Geological Contact
  - Geological Contact (diffuse)
  - Weakness zone < 1m
  - Water
  - Weakness zone > 1m (thickness)

### DISCONTINUITIES

Fracture set	1				
Strike ( $\alpha_s$ )	E-W				
Dip ( $\alpha_f$ )	~80-90				
Spacing (cm)	-				
Length (m)	1-3				
Aperture (mm)	<1.0				
Roughness	VII				
Infilling	1/4000 3mm				
Weathering	W1				

### FACE CHARACTERISTICS

Quartz	Veins	<input checked="" type="checkbox"/>	Masses	<input type="checkbox"/>
Garnets	Low	<input type="checkbox"/>	High	<input checked="" type="checkbox"/>
Water	Dry	<input checked="" type="checkbox"/>	Moist	<input type="checkbox"/>
	Dripping	<input type="checkbox"/>	Flowing	<input type="checkbox"/>
	Quantity:			
Fracturing	RQD:		100-80	
Overbreak	Depth (cm):		5-10	
	Amount (%):		5-10	
Mixed face	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>

### NOTES

DO WITH AMP. DYKES. DYKES ARE MORE FRACTURED THAN GNEISS. DRY AND NOT WEATHERED

\*BN DOES NOT AGREE TO INCLUDE MIXED FACE ASSESSMENT IN MAPPING.

AMP = Amphibolite, DG = Dark gneiss, LG = Light gneiss, PG = Pegmatite, OB = Overbreak, WZ = Weak zone, LS/RS = Left/Right side

### AGJV Geologist

Date	Name	Signature
7/2/18	XIV	Xavier Niquel

### Bane NOR Geologist

Date	Name	Signature
7/2/18	M.L.	M. Le...



TUNNEL: INBOUND  
CHAINAGE: 05+318  
DIRECTION: NORTH

MACHINE: TBM 1  
RING: 3586

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TBM1\_20180207\_05318\_296

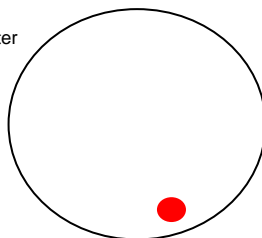
LEFT SIDE



RIGHT SIDE



Schematic position of the cutter head while mapping



UPPER PART



FACE



AGJV Geologist

Date	Name	Signature
07/02/2018	XMV	

Bane NOR Geologist

Date	Name	Signature