

TUNNEL: INBOUND	MACHINE: TBM1	DATE: 09/10/17	REF. Nº: 227
CHAINAGE: 6+668	RING: 2837	HOUR: 8:40	

Mapping performed: ☐ Yes ☐ No

Plan view Face of the Excavationm

Cutter Head

1.0 m

Light Gneiss Dark Gneiss Foliation Joint Set (Strike/Dip) Geological Contact Weakness zone < 1m

Pegmatite Amphibolite Joint Set (sub. Vertical) Geological Contact Joint Set (Sub Horizontal) Geological Contact (diffuse) Water Weakness zone > 1m (thickness)

Schematic position of the cutter head while mapping

Schematic Rock Mass Structure

DISCONTINUITIES						FACE CHARACTERISTICS				
Fracture set	?					Quartz	Veins	<input type="checkbox"/>	Masses	<input type="checkbox"/>
Strike (α_s)	E-W					Garnets	Low	<input type="checkbox"/>	High	<input type="checkbox"/>
Dip (α_f)	80-90°					Water	Dry	<input type="checkbox"/>	Moist	<input checked="" type="checkbox"/>
Spacing (cm)	> 3 mm						Dripping	<input type="checkbox"/>	Flowing	<input type="checkbox"/>
Length (m)	0.50 cm						Quantity:			
Aperture (mm)	/					Fracturing	RQD:		100%	
Roughness	subplanar					Overbreak	Depth (cm):		5 cm	
Infilling	/						Ammount (%):		0-1%	
Weathering	W.					Mixed face	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>

NOTES

GNEISS UNWEATHERED AND MASSIVE AND AMPHIBOLITE DYKES. MOIST FACE

* BV NOT AGREE WITH HFC IN FM ASSESSMENT

AMP = Amphibolite, DG = Dark gneiss, LG = Light gneiss, PG = Pegmatite, OB = Overbreak, WZ = Weak zone

AGJV Geologist			Bane NOR Geologist		
Date	Name	Signature	Date	Name	Signature
09/10/17	gc	<i>Geelboer</i>	09/10/17	-	<i>38</i>

TUNNEL: INBOUND
CHAINAGE: 06+688
DIRECTION: NORTH

MACHINE: TBM 1
RING: 2837

DATE: 09/10/2017
HOUR: 08:40

REF. Nº:
TBM1_20171009_06688_227

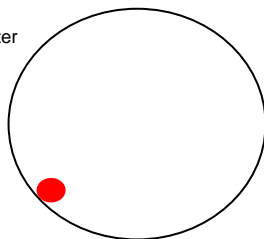
LEFT SIDE



RIGHT SIDE



Schematic position of the cutter head while mapping



UPPER PART



FACE



AGJV Geologist

Date	Name	Signature
09/10/2017	GC	

Bane NOR Geologist

Date	Name	Signature