

TUNNEL: INBOUND	MACHINE: TBM1	DATE: 02/10/17	REF. N°:
CHAINAGE: 6+738	RING: 2798	HOUR: 10:20	223 th

Mapping performed:	<input type="checkbox"/> Yes	<input type="checkbox"/> No
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Plan view

Cutter Head

Face of the Excavationm

Schematic position of the cutter head while mapping

Schematic Rock Mass Structure

1.0 m

Light Gneiss (dotted pattern)

Pegmatite (diagonal lines)

Dark Gneiss (cross-hatched pattern)

Amphibolit (stippled pattern)

Foliation (line with dots)

Joint Set (sub. Vertical) (line with dots)

Joint Set (Sub Horizontal) (line with dots)

Joint Set (Strike/dip) (line with dots)

Geological Contact (solid line)

Geological Contact (diffuse) (dashed line)

Weakness zone < 1m (wavy line)

Water (wavy line with dots)

Weakness zone > 1m (thickness) (wavy line with dots)

DISCONTINUITIES						FACE CHARACTERISTICS			
Fracture set	1	2				Quartz	Veins <input type="checkbox"/>	Masses <input type="checkbox"/>	
Strike (α_s)	N-S	E-W				Garnets	Low <input type="checkbox"/>	High <input type="checkbox"/>	
Dip (α_f)	60 to NE	80-90				Water	Dry <input type="checkbox"/>	Moist <input checked="" type="checkbox"/>	
Spacing (cm)	2mm	20-50					Dripping <input type="checkbox"/>	Flowing <input type="checkbox"/>	
Length (m)	1-2m	0.20-0.50					Quantity:		
Aperture (mm)	-	-				Fracturing	RQD:	80%	
Roughness	subpt	subpl				Overbreak	Depth (cm):	5-10cm	
Infilling	-	-					Amount (%):	0-10%	
Weathering	W ₁	W ₂				Mixed face	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

NOTES

GNEISS NOT WEATHERED AND AMPHIBOLITE DYKE. FRACTURES CLOSELY SPACED IN THE LEFT UPPER PART. MOIST FACE

* BN NOT AGREE WITH MFC WITH 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
02/10/17	GC		02/10/17	MFL	

TUNNEL: INBOUND
CHAINAGE: 06+738
DIRECTION: NORTH

MACHINE: TBM 1
RING: 2798

DATE: 02/10/2017
HOUR: 10:30

REF. N°:
TBM1_20171002_06738_223

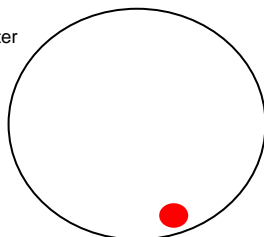
LEFT SIDE



RIGHT SIDE



Schematic position of the cutter head while mapping



UPPER PART

FACE



AGJV Geologist

Date	Name	Signature
02/10/2017	GC	

Bane NOR Geologist

Date	Name	Signature