

TUNNEL: Inbound	MACHINE: TBM1	DATE: 24/5-17	REF. N°: 134
CHAINAGE: 8+540	RING: 1799	HOUR: 09:00	

Mapping performed: ☒ Yes ☐ No

Plan view

Face of the Excavation

Schematic position of the cutter head while mapping

Schematic Rock Mass Structure

1.0 m

Legend:

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

DISCONTINUITIES

Fracture set	↑	Sh				
Strike (αs)	E-W	—				
Dip (αf)	~90°	10°-20°N				
Spacing (cm)	—	—				
Length (m)	1-5m	1-10m				
Aperture (mm)	<1mm	1-5mm				
Roughness	VII	VII/VI				
Infilling	N	?				
Weathering	N	W4/W3				

FACE CHARACTERISTICS

Quartz	Veins	<input checked="" type="checkbox"/>	Masses	<input type="checkbox"/>
Garnets	Low	<input type="checkbox"/>	High	<input type="checkbox"/>
	Dry	<input type="checkbox"/>	Moist	<input type="checkbox"/>
Water	Dripping	<input checked="" type="checkbox"/>	Flowing	<input checked="" type="checkbox"/>
	Quantity:			0.1 l/min
Fracturing	RQD:			30-70
Overbreak	Depth (cm):			5-20cm
	Amount (%):			30%
Mixed face	Yes	<input type="checkbox"/>	No	<input type="checkbox"/>

NOTES

Different kind gneisses. Upper part is showing big overbreak. Weak zone across the tunnel face generating the upper and lower part. Some pegmatites. Weak zone seems to be dipping around 10°-20° towards north. Some light colored rock composed mainly of quartz and feldspar visible, seems to follow the alignment of the weak zone. (*)

AGJV Geologist

Date	Name	Signature
24/5-17	KWS	Kar Weger

Bane NOR Geologist

Date	Name	Signature
24/5-17	APF	Agathe F.

TUNNEL: INBOUND
CHAINAGE: 08+540
DIRECTION: NORTH

MACHINE: TBM 1
RING: 1799

DATE: 24/05/2017
HOUR: 09:00

REF. N°:
TBM1_20170524_08540_134

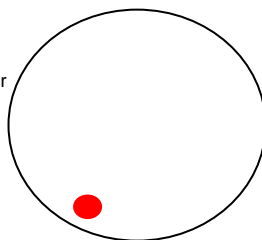
LEFT SIDE



RIGHT SIDE



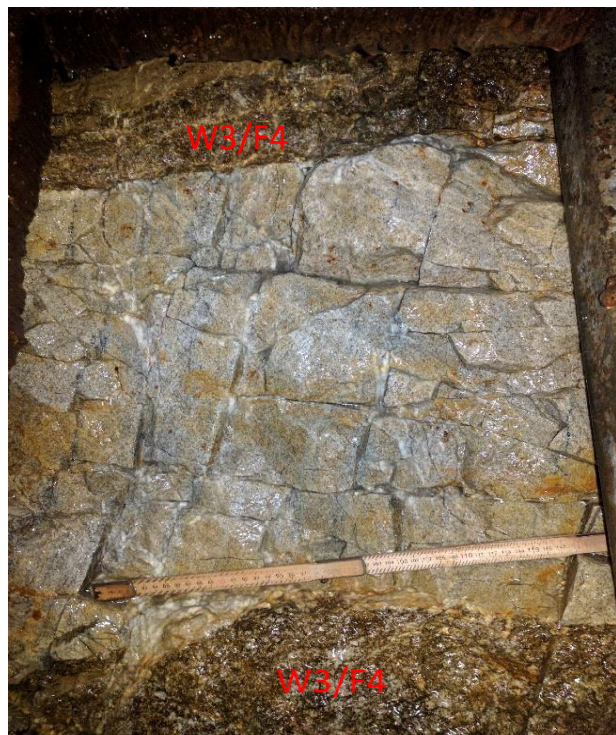
Schematic position of the cutter head while mapping



UPPER SIDE



TELESCOPIC UPPER RIGHT SIDE



AGJV Geologist

Date	Name	Signature
24/05/2017	KVS	

Bane NOR Geologist

Date	Name	Signature