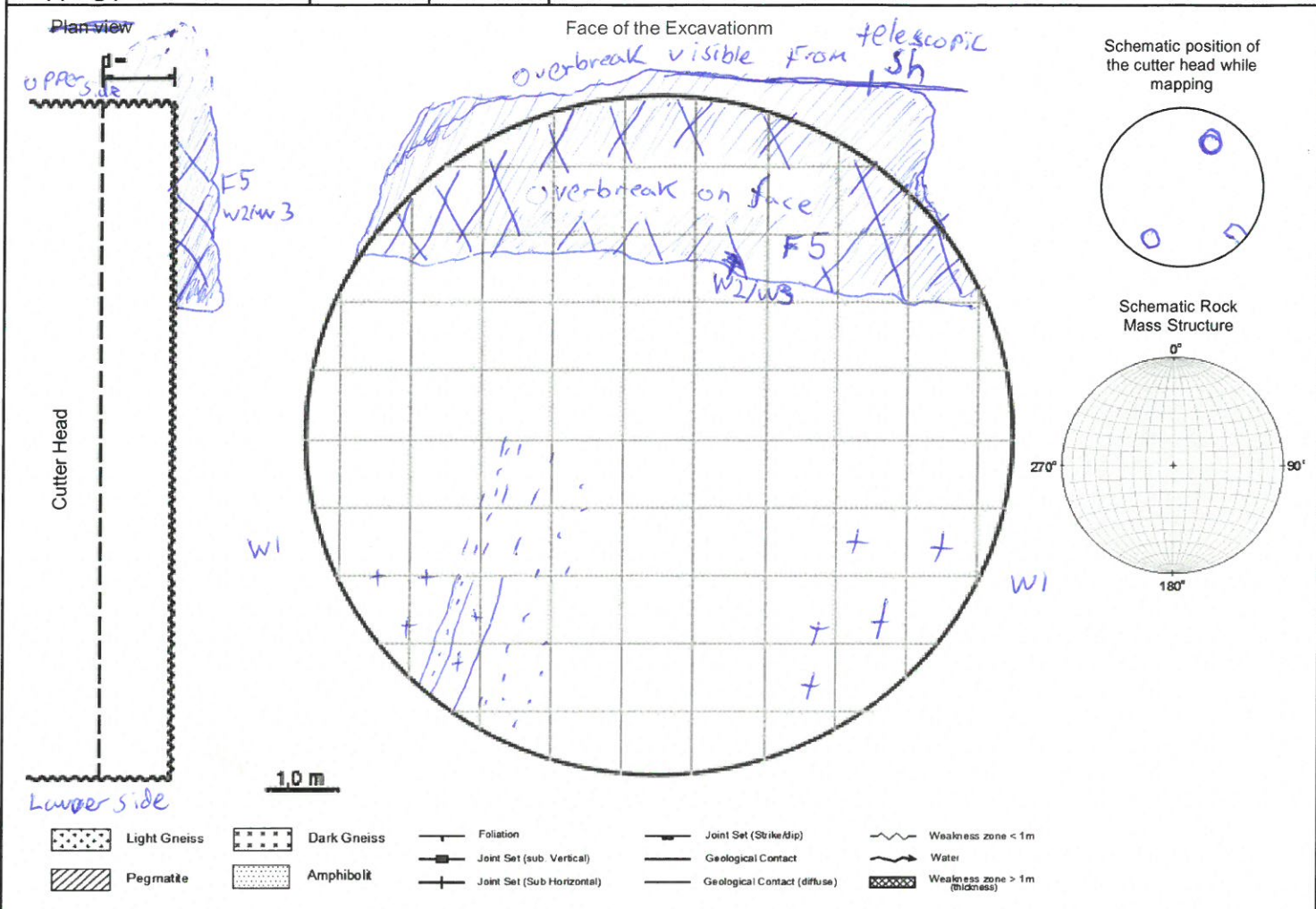


TUNNEL: Inbound CHAINAGE: 2+555	MACHINE: TBM1 RING: 1826174	DATE: 23/5-17 HOUR: 09:45	REF. Nº: 133
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Mapping performed: ☒ Yes ☐ No



DISCONTINUITIES						FACE CHARACTERISTICS				
Fracture set						Quartz	Veins	<input checked="" type="checkbox"/>	Masses	<input type="checkbox"/>
Strike (α_s)						Garnets	Low	<input checked="" type="checkbox"/>	High	<input type="checkbox"/>
Dip (α_f)						Water	Dry	<input type="checkbox"/>	Moist	<input type="checkbox"/>
Spacing (cm)							Dripping	<input type="checkbox"/>	Flowing	<input checked="" type="checkbox"/>
Length (m)							Quantity:	5 l/s		
Aperture (mm)						Fracturing	RQD:	10-100		
Roughness						Overbreak	Depth (cm):	10-50		
Infilling							Ammount (%):	30%		
Weathering						Mixed face	Yes	<input checked="" type="checkbox"/>	No	<input type="checkbox"/>

NOTES

Upper side is blocky, almost sandy. Lower sides are low fractured and unweathered. From telescopic overbreak is visible in tunnel crown (1m on upper left and 1.5 m in upper right). Lower sides and tunnel wall visible from telescopic shows low fractured unweathered rock. Material on conveyor is a mix of blocky rusted rock and unweathered "normal" chips. Multiple quartz veins and concentrations visible on upper tunnel face

AGJV Geologist			Bane NOR Geologist		
Date	Name	Signature	Date	Name	Signature
23/5-17	KVS	[Signature]	24/5-17	[Signature]	[Signature]

TUNNEL: INBOUND
CHAINAGE: 08+555
DIRECTION: NORTH

MACHINE: TBM 1
RING: 1791

DATE: 23/05/2017
HOUR: 10:30

REF. N°:
TBM1_20170523_08555_133

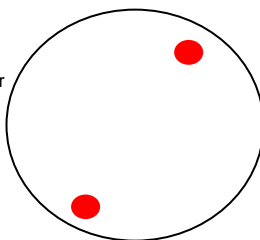
TELESCOPIC LEFT SIDE



TELESCOPIC RIGHT SIDE



Schematic position of the cutter
head while mapping



TELESCOPIC UPPER SIDE



UPPER FACE



AGJV Geologist

Date	Name	Signature
23/05/2017	KVS	

Bane NOR Geologist

Date	Name	Signature