


				Start-Finish Date : 16-20.03.2018 Trende/Plunge : Vertical Coordinate.X : 315462.567 Coordinate.Y : 4705271.436 Core Diameter : 89.00 mm. Elevation.Z (m) : 342.742 D.Rig. Rotary : Hydraulic / Rotary Boring Depth : 45.00 m. Casing Depth : 45.00 m. Groundwater : 30.00 m.				BOREHOLE NO:BH-LNK-22r (Page 1 / 3) Undisturbed Sample : UD Core Sample : K Standart Penetration Test : SPT Pressuremeter Test : PMT Permeabilite Deneyi (Permeability Test) : PRB Packer Test : BST							
SİSTEM ZEMİN MÜH. İNŞ. TİC.LTD.ŞTİ. GEORGIA NAMA KHVANI HPP CASCADE PROJECT												Prepared by Anıl KUTLUAY Geological Engineer		Approved by Dilara BAŞOĞUL Geological Engineer	
Boring Depth (m)	Sample Type	Lugeon	Strength (R)	S (Spacing)	UCS (Mpa)	E(Gpa)	N30 Graph	TCR %	SCR %	RQD %	Weathering	Groundwater level	Z (m)	Profile	DESCRIPTION:
0							0 25 50						342.7		0.00-42.00 m.
1	K												342		TALUS SLOPE
2	K												341		Light grey to beige,
3													340		LIMESTONE Blocks,
4	K												339		interbedded with angular,
5	K												338		sub-angular gravels and
6													337		blocks.
7	K												336		
8	K												335		
9													334		
10	K												333		
11	K												332		
12													331		
13	K												330		
14	K												329		
15													328		
Spacing S1 Ext.close spacing S2 Very close spacing S3 Close spacing S4 Moderately spacing S5 Widely spacing S6 Very Widely spacing S7 Ext. Widely spacing			Strength Classification (R0)<1 Mpa Ext. Weak Rock (R1)1-5 Mpa Very Weak Rock (R2)5-25 Mpa Weak Rock (R3)25-50 Mpa Medium Rock (R4)50-100 Mpa Strong Rock (R5)100-250 Mpa Very Strong Rock (R6)>250 Mpa Ext.Strong Rock			Lugeon (Conductivity) <1 Low 1-5 Moderate 5-25 High >25 Very High			Rock Quality Designation 0-25 Very Poor 25-50 Poor 50-75 Fair 75-90 Good 90-100 Excellent			Weathering (W) W1 Fresh W2 Slightly Weathered W3 Mod. Weathered W4 Highly Weathered W5 Comp. Weathered			




				Start-Finish Date : 16-20.03.2018 Trende/Plunge : Vertical Coordinate.X : 315462.567 Coordinate.Y : 4705271.436 Core Diameter : 89.00 mm. Elevation.Z (m) : 342.742 D.Rig. Rotary : Hydraulic / Rotary Boring Depth : 45.00 m. Casing Depth : 45.00 m. Groundwater : 30.00 m.				BOREHOLE NO: BH-LNK-22r (Page 3 / 3) Undisturbed Sample : UD Core Sample : K Standart Penetration Test : SPT Pressuremeter Test : PMT Permeabilite Deneyi (Permeability Test) : PRB Packer Test : BST											
SİSTEM ZEMİN MÜH. İNŞ. TİC.LTD.ŞTİ. GEORGIA NAMA KHVANI HPP CASCADE PROJECT																			
Boring Depth (m)	Sample Type	Lugeon	Strength (R)	S (Spacing)	UCS (Mpa)	E(Gpa)	N30 Graph	TCR %	SCR %	RQD %	Weathering	Groundwater level	Z (m)	Profile	Prepared by Anıl KUTLUAY Geological Engineer	Approved by Dilara BAŞOĞUL Geological Engineer			
							0 25 50						342.7		DESCRIPTION:				
30															0.00-42.00 m.				
31	K												312		TALUS SLOPE				
32	K												311		Light grey to beige,				
33	K												310		LIMESTONE Blocks,				
34	K												309		interbedded with angular,				
35	K												308		sub-angular gravels and				
36	K												307		blocks.				
37	K												306						
38	K												305						
39	K												304						
40	K												303						
41	K												302						
42	K			S2				80	10	10	W4		301						
43	K			S2				100	53	40	W4		300		42.00-45.00 m.				
44	K			S2									299		Light brown - light grey				
45	K			S2				75	0	0	W4		298		With FeO concretion				
SANDSTONE - LIMESTONE																			
interbedded																			
Very poor to poor																			
Highly Weathered (W4)																			
Very Closely spaced to (S2)																			
End Of Borehole: 45.00 m.																			
Spacing S1 Ext.close spacing S2 Very close spacing S3 Close spacing S4 Moderately spacing S5 Widely spacing S6 Very Widely spacing S7 Ext. Widely spacing				Strength Classification (R0)<1 Mpa Ext. Weak Rock (R1)1-5 Mpa Very Weak Rock (R2)5-25 Mpa Weak Rock (R3)25-50 Mpa Medium Rock (R4)50-100 Mpa Strong Rock (R5)100-250 Mpa Very Strong Rock (R6)>250 Mpa Ext.Strong Rock				Lugeon (Conductivity) <1 Low 1-5 Moderate 5-25 High >25 Very High				Rock Quality Designation 0-25 Very Poor 25-50 Poor 50-75 Fair 75-90 Good 90-100 Excellent				Weathering (W) W1 Fresh W2 Slightly Weathered W3 Mod. Weathered W4 Highly Weathered W5 Comp. Weathered			

PROJECT NAME	GEORGIA NAMAKHVANI HPP CASCADE PROJECT		
CONTRACTOR	ENKA	SUBCONTRACTOR	sistemzemin
	ENKA İNŞAAT SANAYİ A.Ş.		SİSTEM ZEMİN MÜH. İNŞ. TİC.LTD.ŞTİ.
BOREHOLE NO	BH-LNK-22r	COREBOX NO	1-6
DATE DRILLED	16-20.03.2018	DEPTH (M)	0.00-10.50
			
0			1 m.
			
			

PROJECT NAME	GEORGIA NAMAKHVANI HPP CASCADE PROJECT		
CONTRACTOR	ENKA	SUBCONTRACTOR	sistemzemin
	ENKA İNŞAAT SANAYİ A.Ş.		SİSTEM ZEMİN MÜH. İNŞ. TİC.LTD.ŞTİ.
BOREHOLE NO	BH-LNK-22r	COREBOX NO	2-6
DATE DRILLED	16-20.03.2018	DEPTH (M)	10.50-21.00
			
0			1 m.
			
			


PROJECT NAME	GEORGIA NAMAKHVANI HPP CASCADE PROJECT		
CONTRACTOR	ENKA	SUBCONTRACTOR	sistemzemin
	ENKA İNŞAAT SANAYİ A.Ş.		SİSTEM ZEMİN MÜH. İNŞ. TIC.LTD.ŞTİ.
BOREHOLE NO	BH-LNK-22r	COREBOX NO	3-6
DATE DRILLED	16-20.03.2018	DEPTH (M)	21.00-28.50



0
1 m.




PROJECT NAME	GEORGIA NAMAKHVANI HPP CASCADE PROJECT		
CONTRACTOR	ENKA	SUBCONTRACTOR	sistemzemin
	ENKA İNŞAAT SANAYİ A.Ş.		SİSTEM ZEMİN MÜH. İNŞ. TIC.LTD.ŞTİ.
BOREHOLE NO	BH-LNK-22r	COREBOX NO	4-6
DATE DRILLED	16-20.03.2018	DEPTH (M)	28.50-34.50




0
1 m.




PROJECT NAME	GEORGIA NAMAKHVANI HPP CASCADE PROJECT		
CONTRACTOR	ENKA	SUBCONTRACTOR	sistemzemin
	ENKA İNŞAAT SANAYİ A.Ş.		SİSTEM ZEMİN MÜH. İNŞ. TIC.LTD.ŞTİ.
BOREHOLE NO	BH-LNK-22r	COREBOX NO	5-6
DATE DRILLED	16-20.03.2018	DEPTH (M)	34.50-40.00



1 m.





PROJECT NAME	GEORGIA NAMAKHVANI HPP CASCADE PROJECT		
CONTRACTOR	ENKA	SUBCONTRACTOR	sistemzemin
	ENKA İNŞAAT SANAYİ A.Ş.		SİSTEM ZEMİN MÜH. İNŞ. TIC.LTD.ŞTİ.
BOREHOLE NO	BH-LNK-22r	COREBOX NO	6-6
DATE DRILLED	16-20.03.2018	DEPTH (M)	40.00-45.00



1 m.



