



SİSTEM ZEMİN MÜH. İNŞ
TİC.LTD.ŞTİ.

GEORGIA NAMA KHVANI
HPP CASCADE PROJECT

Start-Finish Date : 12-18.03.2018
Trend/Plunge : Vertical
Coordinate.X : 315232
Coordinate.Y : 4703792
Core Diameter : 89,00 mm.
Elevation.Z (m) : 272,41 m.
D.Rig. Rotary : Hydraulic / Rotary
Boring Depth : 40.00 m.
Casing Depth : 40.00 m.
Groundwater : 2.50 m.

BOREHOLE NO: BH-VSK-9R

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Undisturbed Sample : UD
Core Sample : K
Standart Penetration Test : SPT
Pressuremeter Test : PMT
Permeability Test : PRB
Packer Test : BST

Boring Depth (m)	Sample Type	Lugeon	Strength (R)	S (Spacing)	UCS (Mpa)	E(Gpa)	N30 Graph	TCR %	SCR %	RQD %	Weathering W	Groundwater level	Z (m)	Profile	Prepared by Dilara BAŞOĞUL Geological Engineer	Approved by Emre YILMAZ Geological Eng. M. Sc.
															DESCRIPTION:	
0															0.00-33.00 m.	
1	K															
2	K														DILUVIAL, COLLUVIAL and	
3															TERRACE deposits	
4	K														River Gravels with Sand and blocky rock fragments	
5	K														Subrounded-rounded	
6																
7	K															
8	K															
9																
10	K															
11	K															
12																
13	K															
14	K															
15																

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 Good

Weathering (W)
W1 Fresh
W2 Slightly Weathered
W3 Mod. Weathered
W4 Highly Weathered
W5 Comp. Weathered



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							2550								DESCRIPTION:	
15															0.00-33.00 m.	
16	K															
17	K														DILUVIAL, COLLUVIAL and	
18															TERRACE deposits	
19	K														River Gravels with Sand and	
20	K														blocky rock fragments	
21															Subrounded-rounded	
22	K															
23	K															
24																
25	K															
26	K															
27																
28	K															
29	K															
30																

Spacing
S1 Ext.close spacing
S2 Very close spacing
S3 Close spacing
S4 Moderately spacing
S5 Widely spacing
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DESCRIPTION:																	
30																0.00-33.00 m. DILUVIAL, COLLUVIAL and TERRACE deposits	
31																	
32																	
33																33.00 - 40.00 m. LIMESTONE Light beige to dark beige, With FeO concretion Slightly Weathered (W2) Poor to Fair Rock Quality Closely to Moderately spaced (S3-S4)	
34	K			S3				65	60	50	W2						
35	K			S4				75	75	70	W2						
36																	
37	K			S4				66	66	66	W2						
38	K			S3				60	60	55	W2						
39	K			S4				70	70	70	W2					End of Borehole : 40.00 m.	
40																	
41																	
42																	
43																	
44																	
45																	


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S2 Very close spacing
S3 Close spacing
S4 Moderately spacing
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Weathering (W)
W1 Fresh
W2 Slightly Weathered
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W5 Comp. Weathered

PROJECT NAME	GEORGIA NAMAKHVANI HPP CASCADE PROJECT		
CONTRACTOR	ENKA		SUBCONTRACTOR
	ENKA İNŞAAT SANAYİ A.Ş.		
			sistemzemin
			SİSTEM ZEMİN MÜH. İNŞ. TIC.LTD.ŞTİ.
BOREHOLE NO	VSK-9r	COREBOX NO	1-7
DATE DRILLED	12.03-18.03.2018	DEPTH (M)	0.00-8.00
			
0			1 m.





PROJECT NAME	GEORGIA NAMAKHVANI HPP CASCADE PROJECT		
CONTRACTOR	ENKA		SUBCONTRACTOR
	ENKA İNŞAAT SANAYİ A.Ş.		
			sistemzemin
			SİSTEM ZEMİN MÜH. İNŞ. TIC.LTD.ŞTİ.
BOREHOLE NO	VSK-9r	COREBOX NO	2-7
DATE DRILLED	12.03-18.03.2018	DEPTH (M)	8.00-13.00
			
0			1 m.





PROJECT NAME	GEORGIA NAMAKHVANI HPP CASCADE PROJECT		
CONTRACTOR	ENKA		SUBCONTRACTOR
	ENKA İNŞAAT SANAYİ A.Ş.		
			sistemzemin
			SİSTEM ZEMİN MÜH. İNŞ. TIC.LTD.ŞTİ.
BOREHOLE NO	VSK-9r	COREBOX NO	3-7
DATE DRILLED	12.03-18.03.2018	DEPTH (M)	13.00-18.50
			
			





PROJECT NAME	GEORGIA NAMAKHVANI HPP CASCADE PROJECT		
CONTRACTOR	ENKA		SUBCONTRACTOR
	ENKA İNŞAAT SANAYİ A.Ş.		
			sistemzemin
			SİSTEM ZEMİN MÜH. İNŞ. TIC.LTD.ŞTİ.
BOREHOLE NO	VSK-9r	COREBOX NO	4-7
DATE DRILLED	12.03-18.03.2018	DEPTH (M)	18.50-23.50
			
			





PROJECT NAME	GEORGIA NAMAKHVANI HPP CASCADE PROJECT		
CONTRACTOR	ENKA	SUBCONTRACTOR	
	ENKA İNŞAAT SANAYİ A.Ş.		SİSTEM ZEMİN MÜH. İNŞ. TIC.LTD.ŞTİ.
BOREHOLE NO	VSK-9r	COREBOX NO	5-7
DATE DRILLED	12.03-18.03.2018	DEPTH (M)	23.50-32.20
			
			1 m.



PROJECT NAME	GEORGIA NAMAKHVANI HPP CASCADE PROJECT		
CONTRACTOR	ENKA	SUBCONTRACTOR	
	ENKA İNŞAAT SANAYİ A.Ş.		SİSTEM ZEMİN MÜH. İNŞ. TIC.LTD.ŞTİ.
BOREHOLE NO	VSK-9r	COREBOX NO	6-7
DATE DRILLED	12.03-18.03.2018	DEPTH (M)	32.20-37.70
			
			1 m.



PROJECT NAME	GEORGIA NAMAKHVANI HPP CASCADE PROJECT		
CONTRACTOR	ENKA	SUBCONTRACTOR	
	ENKA İNŞAAT SANAYİ A.Ş.		SİSTEM ZEMİN MÜH. İNŞ. TIC.LTD.ŞTİ.
BOREHOLE NO	VSK-9r	COREBOX NO	7-7
DATE DRILLED	12.03-18.03.2018	DEPTH (M)	37.70-40.00
0			 1 m.

