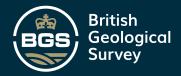


## Norwest Holst Soil Engineering Ltd. Borehole No. 2 Contract No. F5305 **BOREHOLE LOG** Sheet.....1....of...3 Location Markham Colliery Client. National Coal Board Method of Boring. Percussion Sampling Depth O.D. Casing Below R.O.D.% Progress **Description of Strata** Legend Level Depth at G.L.(m) (m) Coring Sampling MADE GROUND - Black ash, stores and 0.50 64.24 coal dust 0.50 65 fdr MADE GROUND - Wooden railway sleeper 0.80 63.94 125 mm 1.30 63.44 1.40 MADE GROUND - Black ash and gravel (31)MADE GROUND - Grey silty clay, coal dust and brick fragments 2.55 2.80 61.94 (25)XO Firm brown silty CLAY with occasional gravel o X 3.30 61.44 3.55 $\equiv$ (30)Brown and grey mottled silty CLAY 4.00 60.74 <u>ء</u> ÷ 4.55 4.90 59.84 (33)Soft brown mottled sandy gravelly <u> 5</u> . . 5.55 5.70 59.04 Brown very sandy very gravelly CLAY - 6 (61) 6.20 58.54 Brown silty sandy CLAY with coarse angular sandstone gravel 6.50 6.60 58.14 12 <u>:::0</u> Fine to coarse sub angular GRAVEL <u>x</u>:-7.55 Brown silty very sandy gravelly 15 CLAY <u>- 0</u> 8.20 56.54 · <del>X</del> : Brown sandy very gravelly CLAY <u>.</u> 25 8.55 Grey and brown silty CLAY with 9.40 55.34 sandstone gravel O--9.50 X (56)9.80 54.94 Brown and grey weathered SANDSTONE 9.95 Remarks (Observations of Ground Water etc.) Type of Sample Water seepage at 4.30m Chisel shale 20.95m to 22.00m ts S.P.T. Undisturbed Water struck at $5.50 \mathrm{m}$ rising to $5.00 \mathrm{m}$ Standing water level 5.20m ( ) Blows to drive U100 Chiselling sandstone 9.80m to 10.50m, 11.40m to 15.00m 0 Jar △ Water Chisel mudstone (intermittently) 17.50m to 20.95m Piezometer Bulk Water levels are subject to seasonal or tidal variations and should not be taken as constant



## Norwest Holst Soil Engineering Ltd. Borehole No. 2 Contract No.....F5305 **BOREHOLE LOG** Location Markham Colliery Sheet....2...of.....3...... Client. National Coal Board Method of Boring. Percussion Diameter of Borehole. 150 mm Depth Below O.D. Casing Sampling Daily **Description of Strata** Legend Depth at R.Q.D.% Progress G.L.(m) (m) Coring Sampling 78 Brown and grey weathered SANDSTONE 10.50 54.24 ++++ Light grey weathered sandy SILTSTONE 11.00 73 53.34 11.40 .... 11.50 64 fo :X::: 150 mm\* ....**x**. Light grey weathered silty SANDSTONE 12.00 68 for :X:: 12.25 52.49 150 mm\* Light grey weathered sandy SILTSTONE 13.00 74 for 150 mm 73 for 14.00 150 mm + + + + + + + + + + + + 15.00 49.74 88 f**d**r 15.00 150 mm Grey weathered clayey SILTSTONE 87 fdr 16.00 125 mm 82 fdr 17.00 125 mm 17.5d 47.24 Grey silty MUDSTONE 50 fdr 18.00 75 mm 50 fdr 19.00 50 mm Remarks (Observations of Ground Water etc.) Type of Sample \* Seating blows only Is S.P.T. Undisturbed See sheet 1 C.P.T. × Vane 0 Jar △ Water Piezometer Bulk Water levels are subject to seasonal or tidal variations and should not be taken as constant



LocationMarkham.Colliery Client.National.Coal.Board Method of BoringPercussion Diameter of Borehole 150 mm				Sheet 3of 3			
Description of Strata	Legend	Depth Below G.L.(m)	O.D. Level (m)	Casing Depth at Sampling	Sampling and Coring	"N"/ R.Q.D.%	Daily Progre
Grey silty MUDSTONE	×	20.95	43 <b>.</b> 79	0	20.00	84 fo 150 m	m*
Dark grey shaley MUDSTONE					21.00	50 fo 75 mm	
End of borehole	allegated flaction record	22 <b>.</b> 05	42.69	9:	22.00	50 fo	r
				000		25mm*	
	(305)						(0)
	(8GS)						(0)
Remarks (Observa	ntions of Ground W	ater etc.)	akan kannan ana manan ana ana ana ana ana ana		Actavenoreconstantinament		
S.P.T. ■ Undisturbed  C.P.T. × Vane  Jar Δ Water  *Seating b See sheet							



