S	OLME	12-16 Yar Stockton TS18 3NA 01642 60 info@soli	on Tees 1 17083		Bore	ehole Log					1:100 BH	Sheet 1 of 2
						Driller:	Geoso	nic Ltd		GL(CD):	6.50m
Contrac	ontract no:	S220215		Site:	South Bank Quay, Teesworks	Plant used:	Sonic I	Rig		Easting	g:	453416
						Started:	04/03/	2022		Northi	ng:	522530
Client:		Graham				Ended:	04/03/	2022		Logge	l:	SM
Method	l:	Sonic Dri	illing			Backfilled:	04/03/	2022		Status	:	FINAL

Standam Description Part	nt: thod:	Grahan Sonic D			ded: ckfilled:	04/03/ 04/03/				Logged: Status:	SM FINAL	
AMDE CROUND. Dark people hereon camply growd. Sand is medium to coarse grained. Gravel is withougher to subrounded frue to coarse of sing. concrete, mudstone, balked and quartz.					CHI IICU:	0 17 001	2022	Samp	les and Ins			
1.70 4.80	Installa	Dept (m)	Leve (m Cl	Stratum Description			Dept	h (m)	Туре	R	esults	
1.70												
MADE GROUND: Burk brown sundy aparel Sand is medium to coarse grained. Gravel is sugalar to submounded fine to coarse of slag, concrete, mudstone and quartz (assumed low cobble content). 3.00 2.60 ES 3.60 ES		-					1.	00	PID		3.80	
MADE CROUND: Back source of slag, concrete, motions and quarts (assumed low cobbe content). Oligit hydrocarbon odour noted here). A50 2.00 MADE GROUND: Black sandy gravel. Sand is medium to coarse grained. Gravel is angular to submounded fine to crosses of day and quarts. Strong hydrocarbon odour noted here). Oligit hydroca		1.70	4.00				1.	60	ES			=
Sight hydrocarbon odour noted here). 2,00 ES 3,50 ES 3		1.70	4.80	MADE GROUND: Dark brown sandy gravel. Sand is medium to coarse grained subangular to subrounded fine to coarse of slag, concrete, mudstone and qu	l. Gravel is artz (assur	ned low	⊢				2.10	
Sugan nyarocarbono dodor noted neres). 3.00 FD 2.40 3.00 4.50 2.60 4.50 2.00 4.50 2.00 4.50 2.00 4.50 2.00 4.50 2.00 4.50 2.00 4.50 2.00 4.50 2.00 4.50 2.00 4.50 2.00 4.60 55 5.00 FD 1.00 5.00 FD 0.40 5.00 FD 0.30 5.00 FD		F		· ·			2 .	60	ES			3
3.00 2.00 MIDE CRIDIUD Black sandy greek Sand is medium to coarse grained. Gravel is angular to automated into excussor of they and quarts. 4.00 ES 5.00 FD 1.00		E	-	(Slight hydrocarbon odour noted here).			F				2.40	
4.50 2.00							3.	60	ES			
1.00 2.00		3.90	2.60		el is angula	ar to	4.	00	PID		6.60	=
Comparison Com		4.50	2.00				E 4.	60	ES			=
Dark greyish brown silty slightly gravely SAND. Sand is medium to coarse grained. Gravel is subangular to subrounded fine to coarse of mudstone and quartz (Frequent shell fragments noted here). 5,60 ES	///××	<u>.</u>] 3			/	F				1.00	4
7.70 -1.20 8.60 ES 8.00 PPD 9.00 ES 9.00 ES 11.00 PPD 0.20 11.60 ES 11.00 PPD 0.30 11.60 ES 11.00 PPD 0.30 11.60 ES 11.60 ES 11.60 ES 11.60 ES 11.60 ES 11.60 ES 11.70 PPD 0.30 11.60 ES 11.80 PPD 0.30 11.80 ES 11.90 PPD 0.30 11.90 PPD 0.3	///×·×	*E					Ē					=
7.70 -1.20 Stiff consistency brown mortled grey slightly sandy slightly gravelly CLAV with occasional coarse and inclusions. Sand is mediant to coarse grained. Graved is subangular to subrounded fine to coarse of sandstone silistone, mudstone and quartz. Stiff consistency brown mortled grey slightly sandy slightly gravelly CLAV with occasional coarse and inclusions. Sand is mediant to coarse grained. Graved is subangular to subrounded fine to coarse of sandstone silistone, mudstone and quartz. Stiff consistency brown mortled grey slightly sandy slightly gravelly CLAV with occasional coarse and inclusions. Sand is mediant to coarse grained. Graved is subangular to subrounded fine to coarse of sandstone silistone, mudstone and quartz. Stiff consistency brown mortled grey slightly sandy slightly gravelly CLAV with occasional coarse grained. Graved is subangular to subrounded fine to coarse grained. Graved is subangular to subrounded fine to coarse grained. Graved is subangular to subrounded fine to coarse grained. Graved is subangular to subrounded fine to coarse grained. Graved is subangular to subrounded fine to coarse grained. Gravel is subangular to subrounded fine to coarse grained. Gravel is subangular to subrounded fine to coarse grained. Gravel is subangular to subrounded fine to coarse grained. Gravel is subangular to subrounded fine to coarse grained. Gravel is subangular to subrounded fine to coarse grained. Gravel is subangular to subrounded fine to coarse grained. Gravel is subangular to subrounded fine to coarse grained. Gravel is subangular to subrounded fine to coarse grained. Gravel is subangular to subrounded fine to coarse grained. Gravel is subangular to subrounded fine to coarse grained. Gravel is subangular to subrounded fine to coarse grained. Gravel is subrounded fine to coarse grained. Gravel is subangular to subrounded fine to coarse grained. Gravel is	///×	1			shell fragn	ients	5.	60				=
1,70	///×.×.	¥	=	noted here).			6.	00	PID		0.40	=
1,7,0	$\mathscr{U}_{\times}^{\times}$	<u>:</u>					6.	60	ES			=
7.70	///.××	<u>.</u>]				⊢				0.20	4
Stiff consistency brown motted grey slightly sandy slightly gravely CLAY with occasional coarse and inclusions. Sand in medium to coarse grained. Grave it is subangular to subrounded fine to coarse of sandstone siltstone, mudstone and quartz. Stiff consistency brown motted grey slightly sandy slightly gravely CLAY with occasional coarse and inclusions. Sand in medium to coarse gravely clay from 18 80-18 8.60 ES 9,00 PID 0.20 9,60 ES 10,00 PID 0.30 11,60 ES 12,00 PID 0.30 12,60 ES 13,30 PID 0.30 14,60 PID 0.50 14,60 PID 0.50 15,60 ES 15,60 ES 15,60 PID 0.20 16,00 PID 0.30 16,00 PID 0.30 17,00 PID 0.30 18,60 ES 18,00 PID 0.30 18,60 ES 18,00 PID 0.30 18,60 ES 19,00 PID 0.30 18,60 ES 19,00 PID 0.30 19,00 PID 0.30	////×.×	<u>.</u>					Ė					=
Sand inclusions. Sand is medium to coarse grained. Gravel is subangular to subrounded fine to coarse of sandstone sillstone, mudstone and quartz.	(() ×	7.70	-1.20	Stiff consistency brown mottled grey slightly sandy slightly grayelly CLAV with	occasions	l coarse	F					3
16.40 -9.90 Weak dark reddish brown very thinly interbedded highly to completely weathered argillaceous 11.60 ES 12.00 PID 0.30		1	1 =	sand inclusions. Sand is medium to coarse grained. Gravel is subangular to s			8 .	00	PID		0.10	=
9,60 ES 10,00 PID 0,20		1		coarse of sandstone siltstone, mudstone and quartz.			8.	60	ES			₫
16.40	//	‡	-				9.	00	PID		0.20	4
16.40		ŧ										=
10.60 ES		1					F				0.00	=
11.60 ES 12.00 PD 0.30 11.60 ES 12.00 PD 0.30 12.60 ES 13.00 PD 0.30 13.60 ES 14.00 PD 0.50 14.60 ES 15.00 PD 0.50 14.60 ES 15.00 PD 0.50 14.60 ES 15.00 PD 0.30 15.60 ES 16.00 PD 0.30 17.00 PD 0.30 18.60 ES 17.00 PD 0.30		F	[F 10	.00	PID		0.20	=
11.60 ES 12.00 PID 0.30		1					10	.60	ES			=
12.00 PID 0.30		<u>}</u>	-				- 11	.00	PID		0.30	=
12.00 PID 0.30		1					11	60	EC			3
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13.00 PID 0.30		F					E				0.30	=
13.60 ES		1					F					3
16.40 -9.90 Weak dark reddish brown very thinly interbedded highly to completely weathered argillaceous MUDSTONE (MERCIA MUDSTONE). Gypsum veins are locally present (1-2cm thickness). Fractures are sub horizontal to horizontal planar smooth with occasional clay infill on fracture surfaces. Recovered as clayey gravel from 16.40-18.80m. Recovered as sandy gravelly clay from 18.80-19.50m. Recovered as sandy gravelly clay from 19.50-20.10m. Recovered as clayey gravel from 19.50-20.10m. 114.60 ES 115.60 ES 17.00 PID 0.30 17.60 ES 18.00 PID 0.30 18.60 ES 19.00 PID 0.30 19.00 PID 0.30 19.00 PID 0.30		ŧ	=				F 13	.00	PID		0.30	∃
14.60 ES 15.00 PID 0.10 15.60 ES 16.00 PID 0.20 16.40 PID 0.20 16.40 PID 0.20 16.60 ES 16.00 PID 0.30	//L-:	1					13	.60	ES			=
16.40 -9.90			-				14	.00	PID		0.50	=
15.60 ES 16.00 PID 0.20	<u>//</u>	ŧ					14	.60	ES			1
16.40 19.90 Weak dark reddish brown very thinly interbedded highly to completely weathered argillaceous MUDSTONE (MERCIA MUDSTONE). Gypsum veins are locally present (1-2cm thickness). Fractures are sub horizontal to horizontal planar smooth with occasional clay infill on fracture surfaces. Recovered as clayey gravel from 16.40-18.80m. Recovered as sandy gravelly clay from 18.80-19.50m. Recovered as sandy gravelly clay from 18.80-19.50m. Recovered as clayey gravel from 19.50-20.10m. The blameter Casing Depths General Remarks Cround Water Depth Diameter Depth Base Diameter I. Hand Dug Inspect ton Pit to 1.20mbgl. Time (br) Depth Scaled Diameter Depth Scaled Diameter Depth Scaled Time Elapsed Water University Company (Company) Time (br) Depth Scaled Diameter Depth Scaled Time Elapsed Water University Company (Company) Time (br) Depth Scaled Diameter Depth Scaled Time Elapsed Water University Company (Company) Time (br) Depth Scaled Time Elapsed Water University Company (Company) Time (br) Depth Scaled Time Elapsed Water University Company (Company) Time (br) Depth Scaled Time Elapsed Water University Company (Company) Time (br) Depth Scaled Time Elapsed Water University Company (Company) Time (br) Depth Scaled Time Elapsed Water University Company (Company) Time (br) Depth Scaled Time Elapsed Water University Company (Company) Time (br) Depth Scaled Time Elapsed Water University Company (Company) Time (br) Depth Scaled Time Elapsed Water University Company (Company) Time (br) Depth Scaled Time Elapsed Water University Company (Company) Time (br) Depth Scaled Time Elapsed Water University Company (Company) Time (br) Depth Scaled Time Elapsed Water University Company (Company) Time (br) Depth Scaled Time Elapsed Water University Company (Company) Time (br) Depth Company (Company) Time (br) Depth Scaled Time Elapsed Water University Company (Company) Time (br) Depth Company		1	-				⊢				0.10	4
16.40 -9.90 Weak dark reddish brown very thinly interbedded highly to completely weathered argillaceous MUDSTONE (MERCIA MUDSTONE). Gypsum veins are locally present (1-2cm thickness). Fractures are sub horizontal to horizontal planar smooth with occasional clay infill on fracture surfaces. Recovered as clayey gravel from 16.40-18.80m. Recovered as sandy gravelly clay from 18.80-19.50m. Recovered as sandy gravelly clay from 18.80-19.50m. Recovered as clayey gravel from 19.50-20.10m. The blameter Casing Depths General Remarks Cround Water Chiselling Time (by) Time (by) Depth Strike Depth Scaled Time Elapsed Water Union Completely weathered argillaceous 16.60 ES 17.00 PID 0.30 17.00 PID 0.30 18.60 ES 18.60 ES 20.00 PID 0.30		1					Ē					3
Weak dark reddish brown very thinly interbedded highly to completely weathered argillaceous MUDSTONE (MERCIA MUDSTONE). Gypsum veins are locally present (1-2cm thickness). Fractures are sub horizontal to horizontal planar smooth with occasional clay infill on fracture surfaces. Recovered as clayey gravel from 16.40-18.80m. Recovered as sandy gravelly clay from 18.80-19.50m. Recovered as sandy gravelly clay from 19.50-20.10m. 10.30 11.60 ES 17.60 ES 18.60 ES 18.60 ES 19.00 PID 0.30 19.60 ES Recovered as clayey gravel from 19.50-20.10m. 19.60 ES Recovered as clayey gravel from 19.50-20.10m. 19.60 ES Chiselling Chiselling From (m) Time (h) Depth Sarike Depth Casing Depth Scaled Water Letter Casing Depth Casing Depth Casing Depth Scaled Water Letter Casing Depth Casing Depth Scaled Water Letter Casing Depth Casing Depth Scaled Water Letter Casing Depth Casing Depth Scaled Water Letter Casing Depth Casing Depth Scaled Water Letter Casing Depth Casing Depth Scaled Water Letter Casing Depth Casing Depth Scaled Water Letter Casing Depth Casing Depth Scaled Water Letter Casing Depth Casing Depth Scaled Water Letter Casing Depth Casing Depth Scaled Depth Sca		1					F					=
Weak dark reddish brown very thinly interbedded highly to completely weathered argulaceous MUDSTONE (MERCIA MUDSTONE). Gypsum veins are locally present (1-2cm thickness). Fractures are sub horizontal to horizontal planar smooth with occasional clay infill on fracture surfaces. Recovered as clayey gravel from 16.40-18.80m. 17.60 ES 18.60 ES 18.60 ES 18.60 ES 19.00 PID 0.30 Recovered as sandy gravelly clay from 18.80-19.50m. 19.00 PID 0.30 Recovered as clayey gravel from 19.50-20.10m. 19.60 ES 20.00 PID 0.10 Hole Diameter Casing Depths General Remarks Chiselling Ground Water From (m) To (m) Time (hr) Depth Sais Depth Sealed Time Blapsed Water Leaves Completely weathered argulaceous 16,60 ES 17.00 PID 0.30		Ē.,,,					F 16	.00	PID		0.20	=
Fractures are sub horizontal planar smooth with occasional clay infill on fracture surfaces. Recovered as clayey gravel from 16.40-18.80m. Recovered as sandy gravelly clay from 18.80-19.50m. Recovered as sandy gravelly clay from 18.80-19.50m. Recovered as clayey gravel from 19.50-20.10m. Recovered as		16.40	-9.90				16	.60	ES			1
Surfaces. Recovered as clayey gravel from 16.40-18.80m. 17.60 ES 18.00 PID 0.20 18.60 ES 18.60 ES 19.00 PID 0.30 Recovered as sandy gravelly clay from 18.80-19.50m. 19.60 ES 20.00 PID 0.30 Recovered as clayey gravel from 19.50-20.10m. 19.60 ES 20.00 PID 0.10 Hole Diameter Casing Depth Sameter Depth Diameter Depth Diameter Depth Base Diameter Depth Base Diameter Depth Base Diameter Depth Sase Diameter Depth Sase Diameter Depth Rase Diam		₽	-	MUDSTONE (MERCIA MUDSTONE). Gypsum veins are locally present (1-2cm	thickness)	acture	17	.00	PID		0.30	4
Recovered as cayey gravel nom 18.40-18.30m. 18.00 PID 0.20 18.60 ES 19.00 PID 0.30 Recovered as sandy gravelly clay from 18.80-19.50m. 19.60 ES 20.00 PID 0.10 Hole Diameter Casing Depths General Remarks Chiselling Chiselling From (m) Tay (m) Depth Sair Depth Sair Depth Sealed Time Blapsed Water Leaves Time Blapsed Wat				surfaces.	, min on n	acture	17	60	EC			3
Hole Diameter Casing Depths Diameter Casing Depth Sase Diameter Depth Base Diameter L. Hand Dug Inspection Pit to 1.20mbgl. Escovered as sandy gravelly clay from 18.80-19.50m. 18.60 ES 19.00 PID 0.30 ES 20.00 PID 0.10 PID 20.00 PI				Recovered as clayey gravel from 16.40-18.80m.			F				0.90	3
Recovered as sandy gravelly clay from 18.80-19.50m. Recovered as clayey gravel from 19.50-20.10m. Recovered as clayey gravel from 19.50-20.10m. 19.60 ES 20.00 PID 0.10 Hole Diameter Casing Depths General Remarks Chiselling Ground Water Depth Diameter Depth Base Diameter 1. Hand Dug Inspection Pit to 1.20mbgl. From (m) To (m) Time (hr) Depth Saing Depth Sealed Time Blapsed Water International Control of the Depth Casing Depth Sealed Time Blapsed Water International Control of the Depth Casing Depth Sealed Time Blapsed Water International Control of the Depth Casing		1					10	.00	110		0.20	=
Recovered as clayey gravel from 19.50-20.10m. Recovered as clayey gravel from 19.50-20.10m. 19.60 ES 20.00 PID 0.10 Chiselling Ground Water Depth Base Diameter Depth Base Diameter 1. Hand Dug Inspection Pit to 1.20mbgl. From (m) To (m) Time (hr) Depth Strike Depth Casing Depth Scaled Time Elapsed Water Interest Depth Casing Depth Scaled Time Elapsed Water Interest Depth Casing Depth Scaled Time Elapsed Water Interest Depth Casing Depth Scaled Time Elapsed Depth Strike Depth Casing Depth Scaled Time Elapsed		1					18	.60	ES			=
Hole Diameter Casing Depths General Remarks Chiselling Chiselling Coround Water		F	=	Recovered as sandy gravelly clay from 18.80-19.50m.			19	.00	PID		0.30	=
Hole Diameter Casing Depths General Remarks Chiselling Chiselling Coround Water		‡		Recovered as clavey gravel from 19.50-20.10m.			19	.60	ES			=
Hole Diameter Casing Depths General Remarks Chiselling Time (hr) Depth Stark Depth Casing Depth Stark Depth Star		≢					F				0.10	_=
Depth Diameter Depth Base Diameter 1. Hand Dug Inspection Pit to 1.20mbgl. From (m) To (m) Time (hr) Depth Strike Depth Casing Depth Scaled Time Elapsed Water In	le Djameter	Casing	Denths	General Remarks	Chisellin	y					•	
	oth Diameter	Depth Base	Diameter	1. Hand Dug Inspection Pit to 1.20mbgl.		1			Depth Sealed	Time Elapsed	Water Level	l (m)
	(m) (mm)	(m)	(mm)		IO (III)	Anne (m)	(m)	(m)	(m)	(min)	,,ater never	. ()
						1						
						1						
		<u></u>	<u>L_</u> _			<u> </u>	<u></u> _		<u></u>	<u></u>		

		6 Yarm Road ston on Tees							Scale	1:100	Sheet 2 of 2
SC	OLMEK TS18	3NA 2 607083 ©solmek.com			Borehole Lo	g				BH	01
						Driller:	Geoso	nic Ltd	GL(CI)):	6.50m
Contract 1	no: S220	215	Site:	South Bank Quay, Teesworks		Plant used:	Sonic I	Rig	Eastin	g:	453416
						Started:	04/03/	2022	North	ing:	522530
Client:	Grah	am				Ended:	04/03/	/2022	Logge	d:	SM
Method:	Sonic	Drilling				Backfilled:	04/03/	/2022	Status	: :	FINAL

Client: Method:	Graham Sonic Di			ded: ckfilled:	04/03/ 04/03/				Logged: Status:	SM FINAL
	JOHIC DI	illing	I And	ckineu.	04/03/	2022	Campl		itu Testing	
kfill / Illatio	epth m)	evel CD)	Stratum Description				зашр	es and ms	itu resting	
Bac Insta) B	ä Ε	•			Dept	h (m)	Туре	Re	esults
Backfill / Installation Legend	(m) 22.00	-15.50 -16.50 -1	Weak dark reddish brown very thinly interbedded highly to completely weat MUDSTONE (MERCIA MUDSTONE). Gypsum veins are locally present (1-2cm Fractures are sub horizontal to horizontal planar smooth with occasional classurfaces. **Recovered as sandy gravelly CLAY from 20.10-22.0m.** Very weak to weak dark reddish brown completely weathered argillaceous? weins are locally present (-1cm thickness). Fractures are horizontal smooth. **End of Borehole at 23.000m** End of Borehole at 23.000m**	thickness) y infill on fi	acture	20 21 21 22 22			Re	
										-
						Ē				
						-				
Hole Diameter Depth Diameter	Casing Depth Base	Depths Diameter	General Remarks 1. Hand Dug Inspection Pit to 1.20mbgl.	Chiselling		Denth Strike	Denth Casing	Ground W		
Base (m) Diameter (mm)	(m)	(mm)	1. Hand Dug Inspection Pit to 1.20mbgl. 2. No Groundwater Noted.	To (m)	Time (hr)	(m)	(m)	(m)	(min)	Water Level (m)

A S	SOLME	12-16 Yai Stockton K TS18 3NA 01642 60 info@sol	on Tees A 07083		Bor	ehole Log			Scale 1:100	Sheet 1 of 2
Contrac	t no:	S220215	i	Site:	South Bank Quay, Teesworks	Driller: Plant used:	Geoso: Sonic I		GL(CD): Easting:	6.16m 453444
						Started:	07/03/	2022	Northing:	522563
Client:		Graham				Ended:	07/03/	2022	Logged:	SM
Method	l:	Sonic Dri	illing			Backfilled:	07/03/	2022	Status:	FINAL
					·				 	

ient: ethod	l:	Graham Sonic Di		Endo Back	ed: filled:	07/03. 07/03.				Logged: Status:	SM FINAL	
ation	pue	th (c	rel CD)	Sheet and December 2				Sampl	les and Ins	situ Testing	1	
Installation	Legend	Depth (m)	Level (m CD)	Stratum Description			Dept	h (m)	Туре	R	esults	
				MADE GROUND: Dark greyish brown gravelly sand. Sand is medium to coarse subangular to subrounded fine to coarse of slag, concrete, mudstone and quar		ravel is						
			<u> </u>					00 30	PID ES	:	2.40	Till III
			111				l .	00 30	PID ES	:	2.70	
		2.80 3.20	3.36	MADE GROUND: Light brown sandy gravelly clay. Sand is coarse grained. Grave subrounded fine to coarse of slag, mudstone and quartz. (Possible engineered MADE GROUND: Dark greyish brown sandy gravel. Sand is medium to coarse g subangular to subrounded fine to coarse of slag (slight hydrocarbon odour not	fill). rained. Gi	/		00 30	PID ES	:	3.80	
		4.40 4.50	1.76 1.66	MADE GROUND: Black sandy gravel. Sand is medium to coarse grained. Gravel	is angula	r to		00 30	PID ES		5.10	
	* * * * * * * * * * * * * * * * * * *		1	subrounded fine to coarse of slag, mudstone and quartz (assumed low cobble (Strong hydrocarbon odour and oil based coating noted here). Dark greyish brown slightly silty slightly gravelly SAND. Sand is medium to coal us subangular to subrounded fine to coarse of siltstone, quartz and mudstone	se graine		l .	00 30	PID ES	:	2.20	7
		5.80	0.36	noted here) Frequent shell fragments noted 4.50-4.80m. Light brown slightly gravelly SAND. Sand is medium to coarse grained. Gravel is	subangu	lar to	l .	00 30	PID ES		1.40	
		7.45	-1.29	subrounded fine to medium of quartz, sandstone and mudstone (frequent she noted here). Stiff consistency dark reddish brown slightly sandy slightly gravelly CLAY. Sand				00 30	PID ES		0.70	
			1	coarse grained. Gravel is subangular to subrounded fine to coarse of sandston- mudstone and quartz.	e, siltstone	e,	l .	00 30	PID ES		0.30	
			1					00 30	PID ES		0.20	
			1				F*	.00 .30	PID ES		0.30	
			-					.00 .30	PID ES		0.20	
		12.10	-5.94	Stiff consistency becoming very stiff with depth brown slightly sandy gravelly C medium to coarse grained. Gravel is subangular to subrounded fine to coarse			Г	.00 .30	PID ES		0.20	
				mudstone, siltstone and quartz.			F*	.00 .30	PID ES		0.10	_
								.00 .30	PID ES		0.20	-
			mpinini				F	.00 .30	PID ES		0.20	
			11				F	.00 .30	PID ES		0.30	-
	16.9		-10.79	MUDSTONE (MERCIA MUDSTONE).	d argillac	eous		.00 .30	PID ES		0.20	
				Recovered as clayey gravel from 16.95-18.0m. Recovered as sandy gravel 18-18.5m.			F*	.00 .30	PID ES		0.30	
				Recovered as coarse gravel 19.5-20.5				.00 .30	PID ES		0.10	
				Theodorica do course graver 10.0 20.0			20	.00	PID		0.30	=
lole Dia	ameter	Casing	Depths	General Remarks	Chiselling			1	Ground W			_
Oepth ise (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	1. Hand Dug Inspec ton Pit to 1.20mbgl. 2. No Groundwater Noted.	To (m)	Time (hr)	Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level	i (m)

SOLME	12-16 Yarm Road Stockton on Tees K TS18 3NA 01642 607083 info@solmek.com		Borehole 1	log		Scale 1:1	60 Sheet 2 of 2 HO2
ontract no:				Driller:	Geosonic Ltd	GL(CD):	6.16m
	S220215	Site:	South Bank Quay, Teesworks	Plant used:	Sonic Rig	Easting:	453444
				Started:	07/03/2022	Northing	522563
Client:	Graham			Ended:	07/03/2022	Logged:	SM
Method:	Sonic Drilling			Backfilled:	07/03/2022	Status:	FINAL

	fethod: Sonic Drilling				Back	filled:	07/03/				Status:	FINAL
ill /	Pu	£ _	e (î						Sampl	les and Ins	itu Testing	<u> </u>
Backfill / Installation	Legend	Depth (m)	Level (m CD)	Stratum Description				Dept	h (m)	Туре	R	esults
		-		Very weak dark reddish brown thinly laminated highly to completely we MUDSTONE (MERCIA MUDSTONE).		d argillace	eous	20	.30	ES		
				Recovered as stiff consistency dark reddish brown sandy gravelly CLAY AT 20.50-22.30M.				21	.00	PID		0.40
								Ē	.30	ES		
				Recovered as coarse gravel from 22.30-23.00.				22 22	.00 .30	PID ES	'	0.10
		23.00	-16.84	End of Borehole at 23.000m				23	.00	PID		0.20
												0.40
	iameter		Depths	General Remarks	1	Chiselling		Daniel Com	David C :	Ground W		
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	1. Hand Dug Inspec ton Pit to 1.20mbgl. 2. No Groundwater Noted.	rom (m)	To (m)	Time (hr)	Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level (m)

		12-16 Ya Stockton											Scale 1:10	Sheet 1 of 2
SO	LMEK	TS18 3Na 01642 60	A			Borehole	Log						Bl	H03
							Drill	er:	Geoso	nic Ltd			GL(CD):	6.78m
Contract n	10:	S220215	5	Site:	South Bank Quay, Teesworks		Plan	t used:	Sonic l	Rig			Easting:	453473
							Star	ted:	03/03/	/2022			Northing:	522595
Client:		Graham					Ende		03/03/				Logged:	SM
Method:		Sonic Dr	illing				Bacl	kfilled:	03/03/	/2022			Status:	FINAL
Hion	<u>م</u>	ج _ ا	- O								Samp	les and Ins	itu Testing	
Backfill / Installation	Legend	Depth (m)	Level (m CD)		Stratum De	script ion				Dep	th (m)	Туре	Re	esults
		0.30	6.48	Gravel is	ROUND: Reddish brown slightly sandy gra subangular to subrounded fine to coarse					É				
		1.00	. 10	MADE GI subangul	engineered fill). ROUND: Dark reddish brown sandy grave ar to subrounded fine to coarse of slag, 1					1	.00	PID	:	3.30
		1.60 2.10	5.18 4.68		ontent). ROUND: Dark greyish brown slightly silty m to coarse grained. Gravel is subangular				ent. Sand		.90 .00	ES PID	2	2.80
		3.20	3.58	MADE GI	e and quartz. (Slight hydrocarbon odour ROUND: Light brownish grey slightly sand Gravel is subangular to subrounded fine	ly gravelly clay. San		um to coai	rse		.90 .00	ES PID	2	2.30
		3.65	3.13	MADE GI subangu	ROUND: Dark greyish brown sandy gravel ar to subrounded fine to coarse of slag, 1	lly clay. Sand is fine mudstone and quar	to coarse tz (possil	ole engine	eredfi ll). /	Ę.	.90	ES		
				medium	ROUND: Dark brown/black slightly clayey cobble content) Sand is medium to coars parse of slag, mudstone and quartz. (Hyd	e grained. Gravel is	subangu	lar to subi	ounded	1	.00	PID	,	2.10
		5.10	1.68	Black slig	thty clayey sandy slightly gravelly SIIT. Sa ar to subrounded fine to coarse of muds	nd is medium to co	arse graii	ned. Grave	el is		.90 .00	ES PID	1	1.80
	× × × × × × × × × × × × × × × × × × ×	6.25	0.53	and black Possible	k tstaining noted here). tidal flats deposits. wn slightly gravelly SAND. Sand is mediu						.90 .00	ES PID	1	1.70
					led fine to coarse of mudstone and quar	iai to		.90 .00	ES PID	().20			
		7.70	-0.92		sistency becoming stiff with depth dark r Id is medium to coarse grained. Gravel is			.90 .00	ES PID	().30			
					Y. Sand is medium to coarse grained. Gravel is subangular to subrounded fine to coarse of stone, siltstone, mudstone, marl and quartz.						.90	ES).20 -
											.90	PID ES	,).30 -
).00).90	PID ES		
			-							11	.00	PID	().10 –
										1	1.90 2.00	ES PID	().20 –
											2.90 3.00	ES PID	().40 -
											3.90 1.00	ES PID	().30 -
Ė											1.90 5.00	ES PID	().30 –
		10.05									5.90 5.00	ES PID	().20 -
		16.35 17.05	-9.57 -10.27	argillaceo	k dark reddish brown thinly to very thinl ous MUDSTONE (MERCIA MUDSTONE). R	ecovered as course	grained.			16	3.90	ES).20 –
				argillaced	Very weak dark reddish brown and grey thinly interbedded highly to completely weathered argillaceous MUDSTONE (MERCIA MUDSTONE). Fractures are planar smooth with clay infill on fracture surfaces.						7.00 7.90	PID ES		
		18.00	-11.22	Extremel	Extremely to very weak dark reddish brown thinly interbedded highly to completely weathere argillaceous MUDSTONE (recovered as clayey gravel)					18	3.00	PID	').20 -
			-	Recovered as stiff consistency dark reddish brown slightly sandy slightly gravelly CLAY. Recovered as sandy coarse gravel.						1	3.90).00	ES PID).30 -
	=									19).90	ES	-).30
Hole Diam		Casing I										Ground W		
	ameter D (mm)	epth Base (m)	Diameter (mm)	ameter 1. Hand Dug Inspec tion Pit to 1.20mbgl.					Time (hr)	Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level (m)

SOLME	12-16 Yarm Road Stockton on Tees K TS18 3NA 01642 607083 info@solmek.com		1	Borehole Lo	g		Scale 1:1	Sheet 2 of 2
ontract no:					Driller:	Geosonic Ltd	GL(CD):	6.78m
	S220215	Site:	South Bank Quay, Teesworks		Plant used:	Sonic Rig	Easting:	453473
					Started:	03/03/2022	Northing	522595
Client:	Graham				Ended:	03/03/2022	Logged:	SM
Method:	Sonic Drilling				Backfilled:	03/03/2022	Status:	FINAL

Method	d:	Sonic D			Backfil		03/03/				Status:	FINAL
/ I	-	·	_ =						Sampl	les and Ins	itu Testing	•
Backfill / Installation	Legend	Depth (m)	Level (m CD)	Stratum Description				Dept	h (m)	Туре	R	esults
			=	Extremely to very weak dark reddish brown thinly interbedded highly to co	omple	tely wea	thered	20	.00	PID		=
				argillaceous MUDSTONE (recovered as clayey gravel)				20	.90	ES		
				Recovered as sandy coarse gravel.					.00	PID	'	0.20
								91	.90	ES		
				Recovered as firm consistency sandy gravelly CLAY.					.00	PID		0.30
				Recovered as clayey coarse gravel.				99	.90	ES		=
000000		23.00	-16.22	End of Borehole at 23.000m				23	.00	PID	'	0.10
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												- I
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								Ė				1
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Hal- P	ameter	Cart	Dontha	General Remarks	CII.	hice III				Ground Wa	ater	
Depth	Diameter	Depth Base	Diameter	1. Hand Dug Inspection Pit to 1.20mbgl.		hiselling To (m)	Time (hr)	Depth Strike	Depth Casing	Depth Sealed	Time Elapsed	Water Level (m)
Base (m)	(mm)	(m)	(mm)	2. No Groundwater Noted.		-		(m)	(m)	(m)	(min)	

S	OLMEI	12-16 Yar Stockton TS18 3NA 01642 60 info@sol	on Tees A 07083		Bore	ehole Log					1:100 BH	Sheet 1 of 2 [04	
						Driller:	Geoso	nic Ltd		GL(CI):	6.72m	
Contrac	ontract no:	S220215	,	Site:	South Bank Quay, Teesworks	Plant used:	Sonic F	lig		Eastin	g:	453502	
						Started:	16/03/	2022		North	ing:	522627	
Client:		Graham				Ended:	16/03/	2022		Logge	d:	SM	
Method	:	Sonic Dri	illing			Backfilled:	16/03/	2022		Status	:	FINAL	
									 	- 4			•

nı: thod:	Sonic Di		nnaeu: Backfilled:	16/03/			Status: FINAL	
	JOING DI	illing	DRUM INCU.	10/03/		nles and In	situ Testing	
Installation	Depth (m)	Level (m CD)	Stratum Description		Depth (m)	Type	Results	
<u>u</u>	1.30	5.42	MADE GROUND: Dark greyish brown sandy gravel (assumed low cobble content). Sand i medium to coarse grained. Gravel is angular to subrounded fine to coarse of ash, slag, coand quartz. MADE GROUND: Dark grey slightly clayey sandy gravel. Sand is medium to coarse graine Gravel is angular to subrounded fine to coarse of ash, slag, quartz (hydrocarbon odour n here).	oncrete ed.	1.00 1.60 2.00 2.60	PID ES PID ES PID	9.70 12.00 46.10	
	3.70 4.50 5.10	3.02	MADE GROUND: Dark brown gravelly sand. Sand is medium to coarse grained. Gravel is subangular to subrounded fine to coarse of ash, slag and quartz. (Slight hydrocarbon od noted here). Dark greyish brown with areas of localised black staining slightly slightly gravelly SAND. Smedium to coarse grained. Gravel is subangular to subrounded fine to coarse of quartz, sandstone and mudstone (slight hydrocarbon odour noted) (Frequent shell fragments not provided fine to coarse of quartz, sandstone and mudstone).	Sand is	3.60 4.00 4.60 5.00	ES PID ES PID	8.90 17.40	
	-		Dark brown slightly gravelly SAND. Sand is medium to coarse grained. Gravel is subangus subrounded fine to coarse of quartz, sandstone and mudstone. (Shell fragments noted by the state of the state of the state of the subrounded fine to coarse of quartz, sandstone and mudstone.		6.60 6.60 7.00	PID ES PID	1.80 0.40	
× × × × × × × × × × × × × × × × × × ×	7.60	-0.88 = 	Stiff consistency dark brown slightly sandy slightly gravelly silty CLAY. Sand is medium to grained. Gravel is subangular to subrounded fine to coarse of sandstone, siltstone, mud: and quartz (Glacial deposits).		7.60 8.00 8.60 9.00	ES PID ES PID	0.80	-
X X X X X X X X X X X X X X X X X X X	-				9.60 10.00 10.60	ES PID ES	0.20	-
X - X - X - X - X - X - X - X - X - X	-				11.00 11.60 12.00	PID ES PID ES	0.20	
× × × × × × × × × × × × × × × × × × ×	-				13.00 13.60 14.00	PID ES PID	0.60	•
X - 2 - 1	_14.90	-8.18_	Very weak to weak dark reddish brown very thinly laminated highly to completely weat argillaceous MUDSTONE (MERCIA MUDSTONE). Gypsum veins are locally present (1-2cn thickness) Fractures are closely spaced undulating smooth with frequent CLAY infill on fi surfaces.	n	14.60 15.00	ES PID ES	0.10	
	-		Recovered as gravel from 16.05-16.50mbgl. Recovered as fine to coarse gravel from 16.70-21.25mbgl.		16.00 16.60 17.00	PID ES PID ES	0.00	
	-				18.00 18.60 19.00	PID ES PID	0.30 0.40	
					19.60 20.00	ES PID	0.20	
le Diameter	Casing l	Depths	General Remarks Chiselling	<u> </u>		Ground W	/ater	_
oth Diameter (mm)	Depth Base (m) 23.00	Diameter (mm) 102	1. Hand Dug Inspection Pit to 1.20mbgl. 2. No Groundwater Noted. From (m) To (m)	Time (hr)	Depth Strike (m) Depth Casi (m)	ng Depth Sealed (m)	Time Elapsed (min) Water Leve	al (m)
oth Diameter I	Depth Base (m)	Dia (meter mm)	umeter I. Hand Dug Inspection Pit to 1.20mbgl. 2. No Groundwater Noted. From (m) To (m)	uneter I. Hand Dug Inspection Pit to 1.20mbgl. 2. No Groundwater Noted. From (m) To (m) Time (hr)	ths General Remarks I. Hand Dug Inspec tion Pit to 1.20mbgl. 2. No Groundwater Noted. Time (hr) Time (hr) Depth Strike (m) (m) (m)	ths General Remarks Chiselling Time (hr) Depth Casing (m) Prom (m) Prom (m) To (m) Depth Casing (m) Chiselling (m) Chiselling (m) Cround Water Noted.	ths General Remarks Chiselling Consumer man 2. No Groundwater Noted. 19.60 ES 20.00 PID 0.20

	12-16 Yarm Road Stockton on Tees					Scale 1:100	Sheet 2 of 2	
SOLMI		Borehole Log						
				Driller:	Geosonic Ltd	GL(CD):	6.72m	
Contract no:	S220215	Site:	South Bank Quay, Teesworks	Plant used:	Sonic Rig	Easting:	453502	
				Started:	16/03/2022	Northing:	522627	
Client:	Graham			Ended:	16/03/2022	Logged:	SM	
Method:	Sonic Drilling			Backfilled:	16/03/2022	Status:	FINAL	

Method	d.	Sonic D			nueu: Backfilled:	16/03/				Status:	FINAL
		Soliic D	Tilling	<u>u</u>	10/03/	2022					
Backfill / Installation	<u> </u>	ے	- 8					Sampl	es and Ins	itu Tes ting	
ckfil	Legend	Depth (m)	Level (m CD)	Stratum Description							
Ba	۳ ا		- 5				Dept	h (m)	Type	Re	esults
	ऱ	_	<u> </u>	Very weak to weak dark reddish brown very thinly laminated highly to com	nlotok waa	thorod					_
		Ė		argillaceous MUDSTONE (MERCIA MUDSTONE). Gypsum veins are locally p	ipietely wea resent (1-2a	unerea rm	Ē				3
		E		thickness) Fractures are closely spaced undulating smooth with frequent Cl	LAY infill on	fracture	-	.60	ES		
		Ē	1 1	surfaces.			21	.00	PID	· ·	0.10
		Ē		Recovered as sandy gravelly clay from 21.25-21.55mbgl.			91	.60	ES		=
				Recovered as gravel from 21.55-22.50mbgl.			-	.00	PID		0.20
		F	1 7				22	.00	PШ	· '	U.ZU =
		Ē		Recovered as sandy gravelly clay from 22.50-23.00mbgl.			22	.60	ES		=
		23.00	-16.28	Full (Parallel et 00 000 a			-	.00	PID		0.20
		E		End of Borehole at 23.000m							
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	iameter		Depths	General Remarks	Chisellin	ng			Ground W		
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	Hand Dug Inspec ton Pit to 1.20mbgl. No Groundwater Noted. From (i	m) To (m)	Time (hr)	Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level (m)
		23.00	102	and decementation from							

	12-16 Yarm Road Stockton on Tees						Scale	1:100	Sheet 1 of 2	
SOLME			Borehole Log							
				Driller:	Geosor	nic Ltd	GL(CI)):	6.85m	
Contract no:	S220215	Site:	South Bank Quay, Teesworks	Plant used:	Sonic R	lig	Eastin	g:	453531	
				Started:	02/03/	2022	North	ing:	522659	
Client:	Graham			Ended:	02/03/	2022	Logge	d:	SM	
Method:	Sonic Drilling			Backfilled:	02/03/	2022	Status	:	FINAL	
_				-		Comples and I	acitu Toc			

Client:		Graham		E	02/03/2	022	Logged: SM			
Method:	:	Sonic Dr	illing	B	ackfilled:	02/03/2	022		Status:	FINAL
Backfill / Installation	Legend	Depth (m)	Level (m CD)	Stratum Description			Sa	amples and Ins	situ Testing	
Ba	3		- 5				Depth (m)	Туре	Resu	lts
		0.45	6.40	MADE GROUND: Dark greyish brown gravelly sand. Sand is medium to coars angular to subrounded fine to coarse of concrete, slag and quartz. MADE GROUND: Light grey sandy gravel. Sand is medium to coarse grained.		Æ				
		1.30	5.55	to subrounded fine to coarse of slag, mudstone and quartz (assumed low to content).	medium cob	oble	- 1.00	PID	2.8	0 =
		-	7	MADE GROUND: Dark grey slightly clayey sandy gravel. Sand is medium to c Gravel is subangular to subrounded fine to coarse of slag, mudstone and qu		d. [1.90 2.00	ES PID	3.1	0
		_ 2.90	3.95	MADE GROUND: Dark greyish black slightly clayey gravelly sand (assumed to Sand is medium to coarse grained. Gravel is angular to subrounded fine to compare the compared to th			2.90 3.00	ES PID	4.7	0
		4.10	2.75	mudstone and quartz. Slight hydrocarbon odour noted here. MADE GROUND: Dark brown and black gravelly sand. Sand is medium to co	arse grained.	Gravel	_ 3.90 4.00	ES PID	5.9	0
		4.65	2.20	is subangular to subrounded fine to coarse of slag, quartz, mudstone and m Dark brown and black slightly clayey silty slightly gravelly SAND. Sand is med	arl. lium to coars	ie E	_ 4.90	ES	0.8	0 =
*	×	5.55	1.30	grained. Gravel is subangular to subrounded fine to coarse of mudstone and staining noted here. Dark brown slightly gravelly SAND. Sand is medium to coarse grained. Grave	-	E	5.00	PID	0.0	
		-	1	subrounded fine to coarse of mudstone and quartz. Frequent shell fragmen			5.90 6.00	ES PID	0.4	0 =
		-					6.90 7.00	ES PID	0.9	0
		7.60	-0.75	Stiff becoming very stiff consistency dark reddish brown slightly silty slightly gravelly high strength CIAY. Gravel is subangular to subrounded fine to coar siltstone, mudstone and quartz.			_ 7.90 8.00	ES PID	0.1	0 =
		-	-				8.90 9.00	ES PID	0.3	0
		-	1				9.90 10.00	ES PID	0.2	0
		11.40	-4.55	Very stiff consistency dark greyish brown slightly sandy slightly gravelly high	strength CIA	v.	_ 10.90 11.00	ES PID	0.2	0
		12.10	-5.25	Gravel is subangular to subrounded fine to coarse of mudstone and quartz. Very weak to weak dark grey very thickly interbedded highly to completely argillaceous MUDSTONE. Fractures are smooth undulating with occasional	weathered		11.90 12.00	ES PID	0.2	0
		-	1	fracture surface.	may mining of	"	_ 12.90 13.00	ES PID	0.1	0
		-	-				_ 13.90 14.00	ES PID	0.2	0
		15.20	-8.35		1 1 11		_ 14.90 15.00	ES PID	0.2	0
		_		Very weak to weak reddish brown very thinly interbedded completely weat MUDSTONE. Fractures are smooth undulating with frequent clay infill on fra			_ 15.90	ES PID	0.1	0
				Recovered as course GRAVEL. Recovered as light grey coarse GRAVEL.			16.00 16.90	ES	0.0	
		-		Recovered as dark reddish brown clayey GRAVEL.			17.00	PID	0.3	
		-18.00	-11.15	Very weak dark reddish brown thinly interbedded completely weathered ar MUDSTONE (MERCIA MUDSTONE).	gillaceous		_ 17.90 18.00	ES PID	0.2	0 -
		-	1			<u> </u>	_ 18.90 19.00	ES PID	0.2	0 =
	#		=				19.90	ES	0.1	0 =
Hole Dia		Casing I	-	General Remarks	Chiselling		ı	Ground W		
Base (m)	(mm)	Depth Base (m)	(mm)	1. Hand Dug Inspec ton Pit to 1.20mbgl. 2. No Groundwater Noted. From (r	To (m)	Time (hr)	Depth Strike (m) Depth (m)		Time Elapsed (min)	ater Level (m)
23.00	102	23.00	102							

	12-16 Yarm Road Stockton on Tees					Scale 1:100	Sheet 2 of 2	
SOLMI		Borehole Log Borehole Borehol						
				Driller:	Geosonic Ltd	GL(CD):	6.85m	
Contract no:	S220215	Site:	South Bank Quay, Teesworks	Plant used:	Sonic Rig	Easting:	453531	
				Started:	02/03/2022	Northing:	522659	
Client:	Graham			Ended:	02/03/2022	Logged:	SM	
Method:	Sonic Drilling			Backfilled:	02/03/2022	Status:	FINAL	

Samples and Depth (an) De	Client: Method	l:	Graham Sonic D			ded: 02/03/2022 logged: ckfilled: 02/03/2022 Status:							
Secretary Secr					D4	02/03/	2022	Sampl					
20.00 13.75	Backfill Installat	Legen	Depth (m)	Level (m CD	Stratum Description			Depth	ı (m)	Туре	Re	esults	
Service Serv				10.55	Very weak dark reddish brown thinly interbedded completely weathered ar MUDSTONE (MERCIA MUDSTONE).	rgillaceous		20.0	00	PID			
23.00 16.15			= 20.60 = = =	-13.75	Very weak to weak reddish brown very thinly interbedded completely weat MUDSTONE. Fractures are smooth undulating with frequent clay infill on fra	thered argil acture surfa	laceous ces			ES PID	().20	
14.15										ES	(0.20	
End of Borehold at 23.000m Pill Pi								Ē			_		
Hole Diemeter Casing Depths General Remarks Septh Casing Depth			23.00 	-16.15	End of Borehole at 23.000m					PID	().30	
Hole Diameter Casing Depths Segment 1. Hand Dug Inspect fon Pit to 1.20mbgl. 8 South Part Segment (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm				-).20 	
Hole Diameter Casing Depths General Remarks Septence of Control				=								-	
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Hole Diameter Casing Depths General Remarks Septence of Control													
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Hole Diameter Casing Depths General Remarks Septence of Control												_	
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Hole Diameter Casing Depths Capture Casing Depth Casing Diameter Casing Community Capture Casing Diameter Casing Community Capture Ca													
Hole Diemeter Casing Depths General Remarks September 1. Hand Dug Inspection Pit to 1.20mbgl. Source (mm) Subsection (mm) Subsecti													
Hole Diemeter Casing Depths General Remarks September 1. Hand Dug Inspection Pit to 1.20mbgl. Source (mm) Subsection (mm) Subsecti												_	
Hole Diameter Casing Depths General Remarks Septence of Control													
Hole Diameter Casing Depths Capture Casing Depth Casing Diameter Casing Community Capture Casing Diameter Casing Community Capture Ca													
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Hole Diameter Casing Depth Casing Depth Casing Chiselling												_	
Hole Diameter Casing Depth Sase (m) (mm) (mm) (m) (m) (mm) (mm) (m) (m)												_	
Hole Diameter Casing Depths General Remarks Central Remarks Common (mm) (mm) (mm) (mm) (mm) (mm) (mm) (mm													
Depth Diameter (mm) Diameter (mm) Diameter (mm) Depth Base (m) Diameter (mm) Depth Strike (mm)												_	
Depth Diameter (mm) Diameter (mm) Diameter (mm) Depth Base (m) Diameter (mm) Depth Strike (mm)													
Depth Diameter (mm) Diameter (mm) Depth Base (mm) Depth Base (mm) Depth Strike				=									
Base (m) (mm) (m) (mm) 2. No Groundwater Noted.					1. Hand Durg Ingnes tion Dit to 1.90mbgl			Denth Strike	Denth Cosin-	Ground Wa			
	Base (m)	(mm)	(m)	(mm)	2. No Groundwater Noted.	m) To (m)	Time (hr)	(m)	(m)	(m)	(min)	Water Level (m)	

			arm Road on Tees							Scale	1:100	Sheet 1 of 2
S	SOLME	K TS18 3N 01642 6	A		Во	rehole Log					BH	106
						Dri	iller:	Geosoi	nic Ltd	GL(C	D):	6.83m
Contrac	t no:	S220213	5	Site:	South Bank Quay, Teesworks	Pla	ınt used:	Sonic R	ig	Easti	ng:	453560
						Sta	urted:	15/03/	2022	Nort	hing:	522692
Client:		Graham	ı			End	ded:	16/03/	2022	Logg	ed:	SM
Method	l:	Sonic Dr	rilling			Bac	ckfilled:	16/03/	2022	Statu	is:	FINAL
[-	•						

d:	Grahan		Ende Post		16/03/					M
)a: 	Sonic D	rilling	Back	filled:	16/03/	2022			1	INAL
D C	ŧ.	_ <u>@</u> @					Samp	les and Ins	situ Testing	
Legend	Depth (m)	Level (m CD)	Stratum Description			Deptl	n (m)	Туре	Resu	lts
	F	:	MADE GROUND: Light grey slightly clayey sandy gravel (assumed low cobble co							
	E		medium to coarse grained. Gravel is subangular to subrounded fine to coarse of mudstone, ash and quartz.	of slag, con	crete,					
	1.10	5.73	MADE GROUND: Dark greyish brown sandy gravel (assumed low cobble conter	nt) Sand is		1.0	00	PID	2.20	0
	E		medium to coarse grained. Gravel is subangular to subrounded fine to coarse o							
	E	-	mudstone, marl and quartz.			1.9 2.0		ES PID	2.60	0
	2.60	4.23	MANE GROUND D. L.		-,.	_	,0	1110		
	F	-	MADE GROUND: Dark grey and black sandy gravel. Sand is medium to coarse g angular to subrounded fine to coarse of ash, slag and quartz (slight hydrocarbo	,		2.9		ES	3.90	0
	3.40	3.43	here). MADE GROUND: Black sandy gravel. Sand is coarse grained. Gravel is angular t	o subround	lodfina	3.0	JU	PID		
	4.10	2.73	to coarse of slag and quartz (hydrocarbon odour noted here).			3.9		ES	4.00	0
$\times \times $	E		Black sandy slightly gravelly SIIT. Sand is medium to coarse grained. Gravel is so subrounded fine to medium of mudstone, siltstone and quartz (rare shells not		to	4.0	00	PID		
XX	4.70	2.13	(Hydrocarbon odour and organics based coating noted here)	eu nere).	/	4.9	90	ES	0.90	n
×××	*E		\ (Possible tidal flat deposit). Black and dark grey slightly silty slightly gravelly SAND. Sand is fine to coarse g	rained Cra	vol is	5.0	00	PID	0.5	
×××	*E		angular to subrounded fine to coarse of mudstone and quartz. (Frequent shell			5.9	90	ES	0.70	n
×××	6.15	0.68	here). \ (Black staining noted here).		/	6.0		PID	0.70	J
× ×	E		Light brown slightly silty slightly gravelly SAND. Sand is medium to coarse grain	ned. Gravel	is	6.9	10	ES		
×××	£ ,	0.57	subangular to subrounded fine to coarse of mudstone siltstone and quartz.			_		PID	0.20	0
	7.40	-0.57	Firm to stiff consistency brown slightly sandy slightly gravelly silty CLAY with oc				_			
		1	grained sand inclusions. Sand is medium to coarse grained. Gravel is sub angul fine to coarse of mudstone, siltstone, sandstone and quartz.	ar to sub ro	ounaea	- 7.9 - 8.0		ES PID	0.30	0
		-				=_ 8.9 = 9.0		ES PID	0.20	0
	Ī						,,,	1.10		
		-				9.9		ES	0.40	0
	10.60	-3.77				10.	UU	PID		
	10.00		Stiff consistency dark brown slightly sandy slightly gravelly CIAY. Sand is mediu grained. Gravel is angular to subrounded fine to coarse of mudstone, siltstone			10.		ES	0.30	0
				1		11.	00	PID		
]				11.	90	ES	0.40	0
						12.	00	PID		
						12.	90	ES	0.30	n
						13.	00	PID	0.3	U
						13.	90	ES	0.00	n
						14.		PID	0.20	U
						14.	00	ES		
	F	1				15.		PID	0.20	0
	15.80	-8.97				1,5	00	PC PC		
		-	Stiff consistency dark reddish brown slightly sandy slightly gravelly silty CIAY. S coarse grained. Gravel is subangular to subrounded fine to coarse of mudstone			15. 16.		ES PID	0.30	0
			quartz.							
	16.90	-10.07_	Extremely weak to very weak dark reddish brown and grey very thinly interbed			16. 17.		ES PID	0.20	0
	17.70	-10.87	and SIITSTONE moderately to highly weathered. Fractures are sub horizontal p with frequent CLAY infill on fracture surfaces.		otn					
	<u> </u>		Very weak dark reddish brown very thinly laminated highly to completely wear argillaceous MUDSTONE (MERCIA MUDSTONE). Gypsum veins are locally preso			17. - 18.		ES PID	0.10	0
			thickness).	.m. (-1-3till	•					
	<u> </u>	-	Recovered as fine to coarse gravel from 18.0-22.0mbgl.			18. 19.		ES PID	0.00	0
						19.	UU	l rm		
		-				19.	90	ES	0.10) ——
Diameter	Casing	Depths	General Remarks	Chiselling				Ground W	ater	
Diameter (mm)	Depth Base (m)	Diameter (mm)	1. Hand Dug Inspection Pit to 1.20mbgl. 2. No Groundwater Noted.	To (m)	Time (hr)	Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	ater Level
102	23.00	102	p. 10 Groundwater Hoted.							
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	12-16 Yarn Stockton o					Scale 1:1	O Sheet 2 of 2
SOLM	В	H06					
				Driller:	Geosonic Ltd	GL(CD):	6.83m
Contract no:	S220215	Site:	South Bank Quay, Teesworks	Plant used:	Sonic Rig	Easting:	453560
				Started:	15/03/2022	Northing	522692
Client:	Graham	·		Ended:	16/03/2022	Logged:	SM
Method:	Sonic Drill	ling		Backfilled:	16/03/2022	Status:	FINAL

Method	l:	Sonic D	rilling	Backfilled:				led: 16/03/2022 S					
_ ioi	70	_						Samp	es and Ins	situ Testing			
Backfill / Installation	Legend	Depth (m)	Level (m CD)	Stratum Description			Dept	h (m)	Туре	R	esults		
				Very weak dark reddish brown very thinly laminated highly to completely w argillaceous MUDSTONE (MERCIA MUDSTONE). Gypsum veins are locally pro	eathered	m	20	.00	PID				
				thickness).	esent (-1-30	m	20	.90	ES		n 90	1	
								.00	PID	· '	0.20	Junion	
								.90	ES		0.10		
				Recovered as sandy gravelly clay at 22.0-22.50m. Recovered as fine to coarse gravel at 22.50-23.00m.			22	.00	PID			1	
		23.00	-16.17					.90	ES PID	(0.20	4	
							E 23	.00	ГШ			lannahannahannahannahannahannahannahann	
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Hole Dia	ameter Diameter	Casing Depth Base		General Remarks	Chiselling		Danth Cart	Donth C	Ground W				
Depth Base (m) 23.00	(mm)	(m) 23.00	Diameter (mm)	1. Hand Dug Inspection Pit to 1.20mbgl. 2. No Groundwater Noted.	To (m)	Time (hr)	(m)	(m)	(m)	(min)	Water Level	(m)	

	12-16 Yarm Road Stockton on Tees		_				Sc	cale 1:100	Sheet 1 of 2
SOLME	EK TS18 3NA 01642 607083 info@solmek.com		Bore	ehole Log				BH	107
				Driller:	Geosor	nic Ltd	G1	L(CD):	6.82m
Contract no:	S220215	Site:	South Bank Quay, Teesworks	Plant used:	Sonic R	ig	Ea	asting:	453589
				Started:	01/03/	2022	No	orthing:	522724
Client:	Graham			Ended:	01/03/	2022	Lo	ogged:	SM
Method:	Sonic Drilling			Backfilled:	01/03/	2022	St	atus:	FINAL
ے د						Sa	mnles and Insitu	1 Testing	

Client:	Graham	1	Ended: 01/03/2022 Backfilled: 01/03/2022							SM
Method:	Sonic D	rilling	Back	dilled:	01/03	/2022			Status:	FINAL
Backfill / Installation Legend	Depth (m)	Level (m CD)	Stratum Description				Sampl	es and Ins	situ Testing	3
Bacl Instal Leg	De (1)	a m	-			Dept	h (m)	Туре	R	esults
	0.50	6.32	MADE GROUND: Dark greyish brown slightly clayey sandy gravel. Sand is medii Gravel is angular to subrounded fine to coarse of slag, mudstone, concrete and MADE GROUND: Light grey sandy gravel. Sand is medium to coarse. Gravel is s	d quartz						
		=	subrounded fine to coarse of slag, concrete and quartz. Slight hydrocarbon odd			1.	00	PID		6.90
	2.20	4.62	MADE GROUND: Dark grey slightly clayey sandy gravel. Sand is medium to coa				90 00	ES PID	:	3.70
			subangular to subrounded fine to coarse of slag, mudstone and quartz. Black s hydrocarbon odour noted.	staining an	d slight		90 00	ES PID	:	3.10
	4.15	2.67	MADE GROUND: Black sandy gravel. Sand is medium to coarse. Gravel is angul	ar to subw	ounded	1	90 00	ES PID		2.90
\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	4.60	2.22	fine to coarse of slag, mudstone and quartz. Assumed low cobble content. Dark greyish brown sandy slightly gravelly clayey SIT. Sand is medium to coars subangular to subrounded fine to coarse of mudstone, siltstone and quartz (Po	e. Gravel i	s		90 00	ES PID	:	2.10
X X X X X X X X X X X X X X X X X X X	***************************************		deposits).	osanie (i de	arıı diə	5.	90	ES		0.70
	6.20	0.62	Dark greyish brown slightly gravelly SAND. Sand is medium to coarse. Gravel is subrounded fine to coarse of mudstone and quartz.	subangula	ar to	Ē	00 90	PID ES		0.50
	7.80	-0.98	Tr		CT AV	7.	90	PID ES		
	8.25	-1.43	Sand is medium to coarse. Gravel is subangular to subrounded fine to coarse o mudstone and quartz.	ff consistency (locally firm) reddish brown slightly sandy slightly gravelly CIAY. Gr						0.30
			Very stiff consistency (locally firm) reddish brown slightly sandy slightly gravelly subangular to subrounded fine to coarse of mudstone and sandstone.	ivel is		90 00	ES PID		0.20	
							90 .00	ES PID		0.20
						10 11		ES PID		0.10
						11 12		ES PID		0.20
							.90 .00	ES PID		0.00
		=					.90 .00	ES PID		0.10
						14 15		ES PID		0.20
		=				15	.90	ES PID		0.10
	16.70	-9.88	Weak dark reddish brown very thinly interbedded highly to completely weather	ered argilla	aceous	16	.90	ES		0.10
			MUDSTONE (Mercia Mudstone).			17 17		PID ES		0.10
			Recovered as coarse GRAVEL.		18	.90	PID ES		0.10	
			Recovered as coarse GRAVEL.		19	.00	PID		0.00	
000000	_				19	.90	ES		0.00	
Hole Diameter	Casing		General Remarks				Ground W			
Depth Base (m) Diameter (mm)	Depth Base (m) 23.00	Diameter (mm) 102	Hand Dug Inspection Pit to 1.20mbgl. No Groundwater Noted. From (m) To (m) T			Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level (m)

			ırm Road								Scale 1:100	Sheet 2 of 2
S	OLME	01642 6	A		Bore	hole Log					BI	I 07
						Driller:	Geoso	nic Ltd			GL(CD):	6.82m
Contract no:		S220215	5	Site:	South Bank Quay, Teesworks	Plant used:	Sonic I	Rig			Easting:	453589
						Started:	01/03/	2022			Northing:	522724
Client:		Graham		•		Ended:	01/03/	2022			Logged:	SM
Method	:	Sonic Dr	illing			Backfilled:	01/03/	2022			Status:	FINAL
fill / lation	pue	th C	Je (C)		Stanton Description				Sample	es and Ins	itu Testing	

Streatum Description Popul (ma) Type Results	Client: Method:	Graham		En .								
Weak dark reddish howevery thinly interhedded highly to completely weathered argillaceous 20,00 13.68 21.00 14.11 31.68 22.20 21.50 22.20 21.50 22.20 21.50 22.20 21.50 22.20 21.50 22.20 21.50 22.20 22.20 21.50 22.2		SOIIC DI	rilling	Da	01/03/	2022						
Weak dark reddish howevery thinly interhedded highly to completely weathered argillaceous 20,00 13.68 21.00 14.11 31.68 22.20 21.50 22.20 21.50 22.20 21.50 22.20 21.50 22.20 21.50 22.20 21.50 22.20 22.20 21.50 22.2	ation artion	£ (- <u>(i</u>					Sampl	les and Ins	situ Testing	:	
22.00 1-16.18 MUSTONE (Gereta Mudetone). 22.10 1-11.19 Variety with the complete by weathered angillaceous MUSTONE (Gereta Mudetone). 22.20 1-35.3 Too of the complete by weathered angillaceous MUSTONE (Gereta Mudetone). 22.20 1-35.3 Too of the complete by weathered angillaceous MUSTONE (Gereta Mudetone). 22.20 1-35.3 Too of the complete by weathered angillaceous MUSTONE (Gereta Mudetone). 32.50 1-50.5 MUSTONE (Gereta Mudetone). 32.50 1-5	Backf Installa Lege	Dep (m)	(m C	Stratum Description			Dept	h (m)	Туре	R	esults	
Vey weak data Feddish brown thinky interfedded completely weathered argillaceous substitution of smooth undulates, with the principle of incidences in the principle of the prin			=		hered argi	llaceous	20	.00	PID			7
Section 1.15 MUSE/ONE (Sected Mustaces). Cypnum whise present locally (1.2 cm thickness). Fractures are 21.00 Pm		<u> </u>	-13.68	MUDSTONE (Mercia Mudstone). Very weak dark reddish brown thinly interbedded completely weathered arg	dillaceous			00	EC			3
Variety 1-5.28 Variety Varie		21.00	-14.18	MUDSTONE (Mercia Mudstone). Gypsum veins present locally (1-2cm thickn	ess). Fract	ures are					0.00	4
22.00 15.38			=	Weak dark reddish brown very thinly interbedded highly to completely weat	hered argi	llaceous	Ē					1
Very weak dark redisk howns think increheded highly to completely weathered argillaceous 15.88 Very weak dark redisk howns very think increheded highly to completely weathered argillaceous 15.89 Very weak dark redisk howns very think increheded highly to completely weathered argillaceous 15.80 Very weak dark redisk howns very think increheded highly to completely weathered argillaceous 15.80 Very weak dark redisk howns very think increheded highly to completely weathered argillaceous 15.80 Very weak dark redisk howns very think increheded highly to completely weathered argillaceous 15.80 Very weak dark redisk howns very think increheded highly to completely weathered argillaceous 15.80 Very weak dark redisk howns very think increheded highly to completely weathered argillaceous 15.80 Very weak dark redisk howns very think increheded highly to completely weathered argillaceous 15.80 Very weak dark redisk howns very think increheded highly to completely weathered argillaceous 15.80 Very weak dark redisk howns very think increheded highly to completely weathered argillaceous 15.80 Very weak dark redisk howns very think increheded highly to completely weathered argillaceous 15.80 Very weak dark redisk howns very think increheded highly to completely weathered argillaceous 15.80 Very weak dark redisk howns very think increheded highly to completely weathered argillaceous 15.80 Very weak dark redisk howns very think increheded highly to completely weathered argillaceous 15.80 Very weak dark redisk howns very think increheded highly to completely weathered argillaceous 15.80 Very weak dark redisk howns very think increheded highly to completely weathered argillaceous 15.80 Very weak dark redisk howns very think how he was a second weathered argillaceous 15.80 Very weak dark redisk howns very weak hered argillaceous 15.80 Very weak dark redisk howns very weak hered argillaceous 15.80 Very weak hered argillaceous 15.80 Very weak hered		E 22.20	-15.38	MUDSTONE (Mercia Mudstone). Recovered as sandy coarse GRAVFI	_						0.00	
25.00 16.18 Week dark red with horse with histories bedded highly to completely weathered argillaceous 23.00 Pph Pph			=	Very weak dark reddish brown thinly interbedded highly to completely weat	hered argi	llaceous	E ~~	.00	1110			1
MILESTONE More American Control (2004) Find of Borehole at 23 000m Find of Borehole at 23				MUDSTONE (Mercia Mudstone). Weak dark reddish brown very thinly interbedded highly to completely weat	hered argi	llaceous					0.00	4
First Section Sectio				MUDSTONE (Mercia Mudstone).		/	E 23	.00	rw			3
Bole Diameter Casing Depths General Remarks General Remark		nal.	=	End of Borehole at 23.000m								4
Bole Diameter Casing Depths General Remarks General Remark			=				Ē					- 1
Bole Diameter Casing Depths General Remarks General Remarks Depth Diameter Depth State Diameter Depth State Depth Diameter Depth State Diameter							Ē					3
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Hole Diameter Casing Depths General Remarks Chiselling Ground Water												1
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Hole Diameter Casing Depths General Remarks Chiselling Depth Base (mm) Diameter (mm) Diam			=									4
Hole Diameter Casing Depths General Remarks Chiselling Depth Base (mm) Diameter (mm) Diam												7
Hole Diameter Casing Depths General Remarks Chiselling Depth Base (mm) Diameter (mm) Diam			=									4
Hole Diameter Casing Depths General Remarks Depth Base (mm) Diameter (mm) Diameter (mm) Domontor (mm) Depth Strike (mm) Depth Casing (mm)							Ė					I
Hole Diameter Casing Depths General Remarks Chiselling Depth Base (mm) Diameter (mm) Diam] -				Ė					
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Depth Base (mm) Diameter (mm) Depth Base (mm) Depth Strike (mm) Dept												
Depth Base (mm) Diameter (mm) Depth Base (mm) Depth Strike (mm) Dept	Hole Diameter	Casing 1	Depths	General Remarks	Chisellin	g			Ground W	ater		\dashv
2. No Giogliawatei Noteu.	Depth Diameter	Depth Base	Diameter	1. Hand Dug Inspection Pit to 1.20mbgl.		1			Depth Sealed	Time Elapsed	Water Leve	el (m)
	. , (,			د. No Groundwater Noted.				, ,	<u> </u>	. 7		\dashv

	12-16 Ya Stockton							Scale	1:100	Sheet 1 of 2
SOLN	MEK TS18 3NA 01642 60	01642 607083 info@solmek.com								108
					Driller:	GeoSo	nic Ltd	GL(C D):	6.86m
Contract no:	S220215	i	Site:	South Bank Quay, Teesworks	Plant used:	Sonic F	Rig	East	ing:	453618
					Started:	14/03/	/2022	Nort	hing:	522756
Client:	Graham				Ended:	14/03/	/2022	Logg	ged:	SM
Method:	Sonic Dr	illing			Backfilled:	14/03/	/2022	Stat	us:	FINAL
				·	<u> </u>					

спенс: Method	l:	Sonic D		End Rac	kfilled:	14/03/				Status:	FINAL	
						11,00,		Samp		itu Testing		
Backfill / Installation	Legend	Depth (m)	Level (m CD)	Stratum Description			Dept	h (m)	Туре		esults	
		1.00	5.86	MADE GROUND: Dark greyish brown slightly clayey sandy gravel. Sand is med grained. Gravel is subangular to subrounded fine to coarse of ash, slag, concre	ete and qua	artz.	1.	00	PID).90	1
				MADE GROUND: Dark grey sandy gravel (assumed low to medium cobble commedium to coarse grained. Gravel is subangular to subrounded fine to coarse concrete, mudstone and quartz.				00	PID		1.40	minim
		2.80	4.06	MADE GROUND: Black sandy gravel. Sand is medium to coarse grained. Grave			3.	00	ES PID	,).70	lii
				subrounded fine to coarse of slag (slightly hydrocarbon odour and oil based o	Jaung note	eu nere).	4.	00 00 00	PID ES	1	1.30	mulm
		4.50	2.36	Dark greyish black sandy slightly gravelly SIIT. Sand is medium to coarse grains subangular to subrounded fine to medium of mudstone and quartz (slight hydand occasional shell fragments noted here).			5.	00 00 00	PID ES	().10	mulmin
	× × × × × × × × ×	6.30	0.56	Dark grey slightly silty slightly gravelly SAND. Sand is medium to coarse graine	d. Gravel i	s	1	00 00	PID ES	().70	milian
	` 	7.50	-0.64	subangular to subrounded fine to coarse of mudstone and quartz. Firm to stiff consistency light brown slightly sandy slightly gravelly silty CLAY. S				00 00	PID ES	(0.40	mulmin
	X x		=	coarse grained. Gravel is subangular to subrounded fine to coarse of mudston quartz.	e, siltstone	e and	1	00 00	PID ES	().30	nhumun
	***** ****** *****						9.	00 00	PID ES).30	dumin
	×	10.50	-3.64	Stiff consistency dark brown mottled grey slightly sandy slightly gravelly CIAY. coarse grained. Gravel is angular to subrounded fine to coarse of mudstone, s			10	.00 .00 .00	PID ES PID).20	Lummin
				and quartz.			11	.00 .00	ES).10	Jummil
							13	.00	ES PID	().20	lı
			_				14	.00 .00 .00	PID ES	().30	lii
		15.10	-8.24	Stiff consistency dark reddish brown slightly sandy slightly gravelly CIAY. Sand			15	.00 .00	PID ES	().20	mulmi
				coarse grained. Gravel is angular to subrounded fine to coarse of mudstone, s and quartz.	iltstone, sa	andstone		.00 .00	PID ES	().10	umhum
								.00 .00	PID ES	().20	mhmm
		18.20	-11.34	Recovered as fine to coarse gravel. at 18-19.20m. Very weak to weak dark reddish brown thinly laminated highly to completely argillaceous MUDSTONE (MEDRIC MUDSTONE) Gypsum veins re locally present		l	F	.00 .00	PID ES		0.00	uhumun
			=	thickness).			19	.00	PID ES).10	Jumm
							20	.00	PID).20	
Hole Dia	Diameter (mm)	Casing Depth Base (m)	Depths Diameter (mm)	General Remarks 1. Hand Dug Inspection Pit to 1.20mbgl. 2. No Groundwater Noted. From (m)	To (m)	Time (hr)	Depth Strike (m)	Depth Casing (m)	Ground W Depth Sealed (m)	Time Elapsed (min)	Water Level (m)
23.00	102											

		12-16 Yar Stockton								Scale 1:	100 Sheet 2 of 2	;
S	OLME		7083		Bo	rehole L)g			F	BH08	
							Driller:	GeoSo	nic Ltd	GL(CD):	6.86m	
Contract	no:	S220215		Site:	South Bank Quay, Teesworks		Plant used:	Sonic I	Rig	Easting:	453618	
							Started:	14/03/	2022	Northin	g: 522756	
Client:		Graham					Ended:	14/03/	2022	Logged:	SM	
Method:		Sonic Dri	lling				Backfilled:	14/03/	2022	Status:	FINAL	
												_

Client:	1.	Grahan			14/03/				Logged:	SM	
Method	1:	Sonic D	rilling		14/03/	2022			Status:	FINAL	
Hion	<u> </u>	ے	- S					Sampl	es and Ins	itu Tes ting	
Backfill / Installation	Legend	Depth (m)	Level (m CD)	Stratum Description			D	1.7.3	m	_	
ng Si	_						Dept	h (m)	Туре	R	esults
			=	Very weak to weak dark reddish brown thinly laminated highly to comple	tely weathe	red	20.	.00	ES		
				argillaceous MUDSTONE (MEDRIC MUDSTONE) Gypsum veins re locally puthickness).	resent (1-2c	m					
			-	Recovered as fine to coarse gravel. at 19.85-21.00m.			21.	.00	PID	(0.30
				Recovered as fine to coarse gravel. at 21.00-21.50m.			21.	.00	ES		
								00	PID		0.20
							22.		ES	· ·	
				Recovered as fine to coarse gravel. at 22.50-23.00m.							
		23.00	-16.14	End of Borehole at 23.000m			23.		PID ES	· '	0.20
								.00	ы		
			-				-				=
		Ē					_				-
											0.20
		<u> </u>	-				_				
			-				<u>-</u>				_
] =				_				
			=				_				-
			-				-				=
			=				_				-
			-								
											=
			-								-
		_					<u>-</u>				
] =								
		Ē					_				
			=								
Hole Di	ameter	Casing	Depths	General Remarks	Chiselli	ing			Ground Wa		
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	1. Hand Dug Inspection Pit to 1.20mbgl. 2. No Groundwater Noted.	n (m) To (m)) Time (hr)	Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level (m)
23.00	102			E. NO GIOGIIUWAIEI POIEU.					• •		
			L								

A :	SOLME	Stockton TS18 3N 01642 6	07083		Во	rehole Lo	g			So	cale 1:100	Sheet 1 of 2
		into@so	lmek.com			l ₁	Driller:	Caasa	nic Ltd	C	L(CD):	6.80m
						1	Dimei:	Geoso	ilic Ltu	G.	L(CD):	0.60111
Contra	ct no:	S220215	5	Site:	South Bank Quay, Teesworks	1	Plant used:	Sonic F	Rig	Ea	asting:	453648
							Started:	25/02/	/2022	N	orthing:	522788
Client:		Graham]	Ended:	28/02/	/2022	Lo	ogged:	SD
Metho	d:	Sonic Dr	illing]	Backfilled:	28/02/	/2022	St	tatus:	FINAL

Client:	1	Graham		Ended:	28/02/				SD
Method	l:	Sonic Drilling Backfilled: 23						Status:	FINAL
_ <u>s</u>	_	_					Samples and Ins	situ Testing	
Backfill / Installation	Legend	Depth (m)	Level (m CD)	Stratum Description		Depth (n	ı) Type	Res	ults
-				MADE GROUND: Grey slightly clayey slightly sandy gravel. Sand is fine to coarse. Grav coarse angular to subangular of sandstone, concrete and slag. Assumed occasional to cobbles of angular clay and concrete.		1.00	PID	0.:	30 -
		2.30	4.50	MADE GROUND: Light brown sandy gravel. Sand is fine to coarse. Gravel is fine to coa	arse angular	1.90 2.00	ES PID	0.5	50 -
		2.90	3.90	to subangular of sandstone, concrete and slag. Assumed occasional to common cobb angular to subangular concrete and slag. MADE GROUND: Black sandy gravel. Sand is fine to coarse with ash. Gravel is fine to c angular of concrete and slag. Assumed common cobbles of angular slag. Chemical od	coarse	2.90 3.00	ES PID	0.4	40 -
		4.70	2.10	MADE GROUND: Black slightly clayey silty. Slight chemical odour noted.		3.90 4.00 4.90	ES PID ES		90 -
				Succession on the super sugar communication invited.		5.00	PID ES	0.8	40 - 80 -
		7.20	-0.40			6.00 6.90 7.00	PID ES PID	0.9	
		8.10	-1.30	Dark brown to orange slightly clayey slightly gravelly SAND. Sand is fine to coarse. Gra to coarse rounded to subangular of siltstone, quartz, gypsum and mudstone. Firm to stiff consistency light brown slightly sandy CIAY. Sand is fine to medium.	avel is fine	7.00 7.90 8.00	ES PID	0.3	20 -
		9.10	-2.30	Stiff to very stiff consistency light brown to red slightly sandy slightly gravelly CLAY. Sa to coarse. Gravel is fine to coarse rounded to subangular of sandstone, quartz, gypsu		9.00	PID	0.4	10 -
		_		mudstone. Assumed occasional cobbles of rounded mudstone.	in and	10.00	PID	0.:	30 -
		_				10.90	ES PID	0.8	80 -
						11.90 12.00 12.90	ES PID ES	0.9	90 -
		_				13.00 13.90 14.00	PID ES PID	0.3	
						14.00 14.90 15.00	ES PID	0.3	30 -
		_				15.90	ES		_
		17.65	-10.85	Very weak to weak dark reddish brown and greenish grey very thinly to thinly interbe	edded	16.90	ES		-
				calcareous MUDSTONE (Mercia Mudstone) Planar of interbedding show evidence of s sediment deformation. Gypsum veins (1-2cm thickness) are locally present. Fractures closely to closely spaced open smooth undulating with occasional clay infilling. Detern be WGIII based on CIRIA 570 (2008) Recovered as dark reddish brown and grey slightly clayey slightly sandy GRAVEL. Gravel is sub angular to	soft s are very rmined to	17.90 18.90	ES		- - - -
				recovered as earn reconst brown and grey singing cayey signing sarray GRAVEL. Grave is sub angular to prounded fine to coarse of mudstone and gypsum. Recovered as slightly clayey GRAVEL. Gravel is angular to sub rounded fine to coarse of mudstone, quartz		19.90	ES		
Hole Dia	1	Casing	-	General Remarks Chiselli	ling		Ground W		
Depth Base (m)	Diameter (mm)	Depth Base (m) 12.00 23.00	Diameter (mm) 102 102	1. Hand Dug Inspection Pit to 1.20mbgl. 2. No Groundwater Noted. From (m) To (m)	n) Time (hr)		h Casing (m) Depth Sealed (m)	Time Elapsed (min)	Water Level (m)

	12-16 Yarm Road Stockton on Tees					Scale 1:100	Sheet 2 of 2
SOLMI			Bore	ehole Log		BF	109
				Driller:	GeoSonic Ltd	GL(CD):	6.80m
Contract no:	S220215	Site:	South Bank Quay, Teesworks	Plant used:	Sonic Rig	Easting:	453648
				Started:	25/02/2022	Northing:	522788
Client:	Graham			Ended:	28/02/2022	Logged:	SD
Method:	Sonic Drilling			Backfilled:	28/02/2022	Status:	FINAL

Method	d:	Sonic D	rilling]	Backfilled:	28/02/	(02/2022			Status:	FINAL
Backfill / Installation	Legend	Depth (m)	Level (m CD)	Stratum Description			Samples and Depth (m) Type		es and Ins	itu Testing	
Back	Leg	Del (n	(m				Depth	(m)	Туре	Res	sults
				Very weak to weak dark reddish brown and greenish grey very thinly to the calcareous MUDSTONE (Mercia Mudstone) Planar of interbedding show expediment deformation. Gypsum veins (1-2cm thickness) are locally present closely to closely spaced open smooth undulating with occasional clay infile be WGIII based on CIRIA 570 (2008) Recovered as slightly clayey GRAVEL. Gravel is angular to sub rounded fine to coarse of much	vidence of soft t. Fractures are lling. Determine	very ed to	20.9	0	ES		
			=	Recovered as slightly clayey GRAVEL. Gravel is angular to sub rounded fine to coarse of muc gypsum. Recovered as dark reddish brown slightly clayey sandy GRAVEL. Gravel is sub angular to sub coarse of mudstone and gypsum.			_ 21.9	0	ES		
		23.00	-16.20	End of Borehole at 23.000m			22.9	0	ES		-
			=								
			=								=
							<u>-</u>				
			_								
											_
	ameter		Depths	General Remarks	Chiselling				Ground Wa		
Depth Base (m)	Diameter (mm)	Depth Base (m) 12.00 23.00	Diameter (mm) 102 102	1. Hand Dug Inspec ton Pit to 1.20mbgl. 2. No Groundwater Noted.	(m) To (m)	Time (hr)	Depth Strike (m)	epth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level (m)
	l	1	<u> </u>								

		12-16 Ya Stockton	rm Road						Scale 1:	100 S	heet 1 of 2
S	OLME	K TS18 3N. 01642 60	A		Bo	rehole Log			B	BH1	0
						Driller:	Geos	onic Ltd	GL(CD):	6.9	98m
Contract no:		S220215	20215 S	Site:	South Bank Quay, Teesworks	Plant us	sed: Sonic	Rig	Easting:	45	3678
						Started:	11/03	3/2022	Northin	g: 52	2819
Client:		Graham				Ended:	11/03	3/2022	Logged:	SN	Л
Method	l:	Sonic Dr	illing			Backfille	led: 11/03	3/2022	Status:	FII	NAL
_					-				 		

lient:		Graham			led:	11/03				Logged:	SM	
1ethod:	:	Sonic D	rilling	Bac	ckfilled:	11/03	/2022 T			Status:	FINAL	
‡ <u>-</u>	2	ے	- O					Samp	les and Ins	itu Testing		
Backfill / Installation	Legend	Depth (m)	Level (m CD)	Stratum Description			Dept	h (m)	Туре	Re	esults	
		1.30	5.68	MADE GROUND: Dark greyish brown sandy gravel (assumed low to medium of Sand is medium to coarse grained. Gravel is angular to subrounded fine to concrete, slag and quartz. MADE GROUND: Dark brown sandy gravel (assumed low to medium cobble of medium to coarse grained. Gravel is angular to subrounded fine to coarse of sangular to sang	arse of ash, ontent) San	ıd is	1.		PID PID		2.90 4.70	
		0.07	4.10	quartz.			2.		ES			
		2.85	4.13 <u> </u>	MADE GROUND: Light grey sandy gravel. Sand is medium to coarse grained. On to subrounded fine to coarse of ash, slag and quartz. MADE GROUND: Dark grey sandy gravel (assumed low to medium cobble con medium to coarse grained. Gravel is angular to subrounded fine to coarse of sangular to subrounded fine to coarse of sangular to subrounded fine to coarse grained.	ntent) Sand	is	3. 3.	10	PID ES PID		5.10 9.90	
	× × ×	4.10 4.35	2.88 = 2.63 =	\ mudstone. MADE GROUND: Black sandy gravel. Sand is medium to coarse grained. Grave \ subrounded fine to medium of ash and slag. (Hydrocarbon odour noted).			4.	10	ES			
	× × ×			Black slightly clayey slightly sandy slightly gravelly SIIT. Sand is medium to coais medium to coarse grained. Gravel is subangular to subrounded fine to coar and quartz. (hydrocarbon odour noted) (frequent shell fragments noted).			5.	00 10	PID ES		0.60	
	× × ×						Ē	10	PID ES		3.10	
	× × ×	7.60	-0.62	Dark brown with localised black staining (8.10-8.20m) slightly silty slightly gra			7.	10	PID ES		0.90	
	× × × × × × × × × × × × × × × × × × ×	8.20	-1.22	medium to coarse grained. Gravel is subangular to subrounded fine to coarse \siltstone and quartz Stiff consistency dark reddish brown slightly gravelly silty CIAY. Sand is mediugrained. Gravel is subangular to subrounded fine to coarse of mudstone, silts	m to coarse	/	8. 8.	10	PID ES		0.70	
	×			and quartz.	tone, sanus	cone	9.	10	PID ES		0.40	
	× × ×						10 10	.10	PID ES		0.20	
	× - × - × - × - × - × - × - × - × - × -						11 11	.10	PID ES		0.20	
	× - × - × - × - × - × - × - × - × - × -		7				12 12	.10	PID ES		0.10	_
	*	_					13 13		PID ES	•	0.30	
	X	_					14 14		PID ES	•	0.10	-
	×						15 15		PID ES	•	0.20	-
	× — ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ; ;	16.65	-9.67	Extremely weak very weak dark reddish brown very thinly laminated modera	tely to com	pletelv	16 16	.10	PID ES		0.30	
		-		weathered argillaceous MUDSTONE. Recovered as fine to coarse gravel FROM 16.65-23.00M.	•		17 17	.10	PID ES		0.20	_
							18 18		PID ES	· •	0.30	
		<u>-</u>	<u>-</u>				19 19		PID ES		0.00	
							20	.00	PID		0.40	
Hole Dia	1	Casing	-	General Remarks	Chiselling				Ground W			
Depth ase (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	1. Hand Dug Inspec ton Pit to 1.20mbgl. 2. No Groundwater Noted.	To (m)	Time (hr)	Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Leve	el (m)
23.00	102	23.00	102									

SOLME	12-16 Yarm Road Stockton on Tees K TS18 3NA 01642 607083 info@solmek.com		Borehole L	og		Scale 1:10	Sheet 2 of 2
				Driller:	Geosonic Ltd	GL(CD):	6.98m
Contract no:	S220215	Site:	South Bank Quay, Teesworks	Plant used:	Sonic Rig	Easting:	453678
				Started:	11/03/2022	Northing	522819
Client:	Graham			Ended:	11/03/2022	Logged:	SM
Method:	Sonic Drilling			Backfilled:	11/03/2022	Status:	FINAL

Method	d:	Sonic D	rilling		Backf	illed:	11/03/	2022			Status:	FINAL
_ no	_		_	Stratum Description					Sampl	es and Ins	itu Testing	
Backfill / Installation	Legend	Depth (m)	Level (m CD)	Stratum Description		Dept	h (m)	Туре		esults		
			=	Extremely weak very weak dark reddish brown very thinly laminated mod	derate	ly to com	pletely	20	.10	ES		=
				weathered argillaceous MUDSTONE.								
								- 21 21	.00 .10	PID ES	(0.50
									.00 .10	PID ES	(0.30
		23.00	-16.02	End of Borehole at 23.000m				_ 23	.00	PID	(0.20
												0.20
												7
												1
			1									7
												7
												7
												=
												3
												=
												1
			_									=
												7
												4
												=
								_				4
			-									1
												=
			=									
			=									7
												=======================================
			=									
	ameter	Casing		General Remarks		Chiselling		n		Ground W		
Depth Base (m) 23.00	Diameter (mm)	Depth Base (m) 23.00	Diameter (mm)	1. Hand Dug Inspection Pit to 1.20mbgl. 2. No Groundwater Noted.	m (m)	To (m)	Time (hr)	Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level (m)
23.00	102	23.00	102									
	l	I	I					1	1			

			rm Road on Tees		_					Scale 1:10	Sheet 1 of 2
	SOLME	01642 6			Во	rehole L	g			B	H11
							Driller:	GeoSo	nic Ltd	GL(CD):	6.86m
Contra	ct no:	S220213	5	Site:	South Bank Quay, Teesworks		Plant used:	Sonic I	Rig	Easting:	453707
							Started:	24/02/	2022	Northing:	522851
Client:		Graham					Ended:	24/02/	2022	Logged:	SM
Metho	d:	Sonic Di	illing				Backfilled:	24/02/	2022	Status:	FINAL

Client:		Graham	ı	E	nded:	24/02	2/2022			Logged:	SM	
Method	l:	Sonic D	rilling	Ba	ackfilled:	24/02	2/2022			Status:	FINAL	
ill / ation	P	£ _	- <u>(</u>)					Samp	les and Ins	situ Testing	3	
Backfill / Installation	Legend	Depth (m)	Level (m CD)	Stratum Description			Dep	th (m)	Туре	R	esults	
				MADE GROUND: Dark grey slightly sandy gravel (assumed low to medium co is medium to coarse grained. Gravel is angular to subangular fine to coarse			E					
		<u> </u>	5.96	(assumed cobbles are angular of slag and concrete). MADE GROUND: Light grey sandy gravel (assumed low cobble content) Sand grained. Gravel is angular to subrounded fine to coarse of slag and concrete are angular to subangular of slag).			1	.00	PID		0.30	ulumu
		2.25	4.61	MADE GROUND: Light brown to orange sandy gravel (assumed low cobble c	ontont) S	and is fina	F	.00 .10	PID ES		1.20	ulun
		2.90	3.96	to coarse. Gravel is fine to coarse angular to subangular of slag (assumed co slag)	bbles are	angular of		.00	PID		0.30	
		4.00	2.86	MADE GROUND: Dark grey to black sandy gravel (assumed low cobble conte coarse. Gravel is fine to coarse angular to subangular of slag (assumed cobb subangular).			Ē	.10	ES		0.00	
	(- 4.00	2.80	Black sandy SIIT. Sand is fine to coarse. Gravel is fine to coarse sub angular t mudstone and quartz.	o sub rou	nded of		.00 .10	PID ES		0.80	I
	× × × × × ×		=				F	.00 .10	PID ES		0.40	- T
	× × × × × × × × ×	- - - - - - - -	0.46					.00 .10	PID ES		0.80	- I
		6.40	U.40	Black slightly gravelly SAND. Sand is fine to coarse. Gravel is fine to coarse st subrounded of mudstone and quartz.	ub angula	r to	7	.00	PID		0.50	ulumlu
		7.50	-0.64	Dark brown slightly gravelly SAND. Sand is fine to coarse. Gravel is fine to co subrounded of mudstone and quartz.	arse suba	ingular to	†	.10	ES PID		0.20	L
		8.10	-1.24	Stiff to very stiff dark brown sandy CLAY. Sand is fine to coarse.				.10	ES		0.20	
		_	-					.00 .10	PID ES		0.10	dum
							F).00).10	PID ES		0.20	untumun
			<u> </u>				L	.00 .10	PID ES		0.00	n d
		12.50	-5.64		AV C. 1.		Г	2.00 2.10	PID ES		0.80	unlum
				Stiff to very stiff dark brown to light brown slightly sandy slightly gravelly CL coarse. Gravel is fine to coarse subangular to rounded of mudstone, siltston and gypsum.	e, sandst	s nne to one, quartz	1	3.00 3.10	PID ES		1.10	milian
			=				Г	l.00 l.10	PID ES		0.40	unluur
		_14.90	-8.04	Very weak to weak dark reddish brown highly to completely weathered arg MERCIA MUDSTONE.			F	5.00 5.10	PID ES		0.80	undum
			<u> </u>	Recovered as stiff to very stiff consistency dark reddish brown slightly sandy slightly gravelly CL coarse rounded of sandstone and mudstone.	.AY. Sand is	fine to	_	6.00 6.10	PID ES		0.30	milian
								7.00 7.10	PID ES		0.50	mulum
				Recovered as slightly sandy GRAVEL. Sand is fine to coarse. Gravel is fine to coarse sub round	ded of muds	tone.		3.00 3.10	PID ES		1.00	
				Recovered as stiff consistency dark reddish brown slightly sandy slightly gravelly CLAY. Sand is Gravel is fine to coarse sub rounded of sandstone and mudstone.	s fine to med	lium.	19	0.00	PID		0.40	ulu
				Recovered as slightly clayey GRAVEL. Gravel is fine to coarse sub rounded of mudstone.).10). 00	ES PID		0.20	
Hole Dia	ameter	Casing	Denths	General Remarks	Chisell	ing	+		Ground W		-	
Depth	Diameter	Depth Base	Diameter	1. Hand Dug Inspection Pit to 1.20mbgl. From (m			Depth Strike	Depth Casing	Depth Sealed	Time Elapsed	Water Lev	el (m)
Base (m)	(mm)	(m)	(mm)	2. No Groundwater Noted.			(m)	(m)	(m)	(min)		

	12-16 Yarm F Stockton on 1					Scale 1:10	O Sheet 2 of 2
SOLMI		33	Bore	ehole Log		В	H11
				Driller:	GeoSonic Ltd	GL(CD):	6.86m
Contract no:	S220215	Site:	South Bank Quay, Teesworks	Plant used:	Sonic Rig	Easting:	453707
				Started:	24/02/2022	Northing	522851
Client:	Graham	·		Ended:	24/02/2022	Logged:	SM
Method:	Sonic Drillir	ng		Backfilled:	24/02/2022	Status:	FINAL

Method:	Sonic D	rilling	Backfilled: 24/02/20		2022			Status:	FINAL	
fill / lation	oth (r	rel CD)	Stratum Description				Sampl	es and Ins	itu Testing	
Back Install Lege	Dep (m	(m (Stratum Description			Dept	h (m)	Туре	Re	sults
Backfill / Installation Legend	(w) 23.00	(a)		fillaceous M V	UDSTONE	Dept 20.	.10 .00 .10	es and Ins	itu Testing Re	sults 1.30 1.20
Hole Diameter Depth Diameter Base (m) (mm)	Casing Depth Base (m)	Depths Diameter (nm)	General Remarks 1. Hand Dug Inspection Pit to 1.20mbgl. 2. No Groundwater Noted.	Chiselling n) To (m)	g Time (hr)	Depth Strike (m)	Depth Casing (m)	Ground W. Depth Sealed (m)		Water Level (m)
			E NO GIOGRAFIACE POLECE.							

	SOLME	01642 60708	Tees]	Borehole Lo	g			Scal		Sheet 1 of 2
		info@solmel	ek.com				ъ ч	C C .	.t. 1.1	CT (CD)	0.00
							Driller:	Ge050	nic Ltd	GL(CD):	6.92m
Contrac	ct no:	S220215		Site:	South Bank Quay, Teesworks		Plant used:	Sonic I	Rig	East	ing:	453737
							Started:	10/03/	/2022	Nor	thing:	522882
Client:		Graham					Ended:	10/03/	/2022	Log	ged:	SM
Method	d:	Sonic Drillin	ng				Backfilled:	10/03/	/2022	Stat	us:	FINAL

:	Sonic Di	6	Backfilled:	: 10/03/	~~~		Status: FI	NAL
					Car	nples and Ins	1	
Legend	Depth (m)	Level (m CD)	Stratum Description		Depth (m)	Туре	Resul	ts
					1.00	PID	3.20	
		1			2.00 2.00	PID ES	3.80	-
	2.70 3.35	3.57	subangular to subrounded fine to coarse of slag (Assumed low to medium cobble co	ontent).	3.00 3.00	PID ES	4.70	-
	4.40 4.70	2.52 2.22	subangular to subrounded fine to coarse of ash, slag, mudstone and quartz. Black slightly clayey sandy SIIT (Possible ti dalflats deposits).		4.00 4.00	PID ES	9.40	-
*		1			5.00	PID ES	2.10	_
* * * * * * * * *	_	111111111111111111111111111111111111111			6.00 7.00	ES PID	1.00	-
× × × × × × × × × × × × × × × × × × ×	7.50	-0.58	Stiff consistency brown slightly silty slightly sandy slightly gravelly high strength CLAI medium to coarse grained. Gravel is angular to subrounded fine to coarse of siltston sandstone, mudstone and quartz.	Y. Sand is ne,	7.00 - 8.00 - 8.00	PID ES	0.80	
× × × × × × × × × × × × × × × × × × ×					9.00 9.00	PID ES	0.40	-
× × × × × × × × × × × × × × × × × × ×	_	1			10.00 10.00	PID ES	0.20	-
X - X - X - X - X - X - X - X - X - X -	11.40	-4.48	is medium to coarse grained. Gravel is angular to subrounded fine to coarse of sands	n CIAY. Sand stone,	11.00 11.00 12.00	PID ES PID	0.30	-
× × ×	_		sutstone, mudstone and quartz.		12.00 - 13.00	ES PID FS	0.20	-
×		7			14.00 14.00	PID ES	0.20	
× × × × × × × × × × × × × × × × × × ×	15.70	-8.78			15.00 15.00	PID ES	0.10	-
		1	Very weak dark reddish brown thinly laminated nighty to completely weathered argi MUDSTONE. Recovered as coarse gravel from 16.70-16.50m. Recovered as sandy gravelly clay from 16.50-17.20m.	шасеоus	16.00 16.00	PID ES	0.30	-
			Recovered as coarse gravel from 17.20-18.40m.		17.00 18.00	ES PID	0.20	-
	_	-	Recovered as sandy gravelly clay from 18.40-19.05m. Recovered as coarse gravel from 19.05-20.20m.		18.00 - 19.00 - 19.00	PID ES	0.20	-
		-			20.00	PID	0.20	
meter	Casing	Depths	General Remarks Chisel	lling		Ground W	ater	
Diameter (mm) 102	Depth Base (m) 23.00	Diameter	1. Hand Dug Inspection Pit to 1.20mbgl. From (m) To (n	Ĭ			Time Flanced	ter Level (m)
-	meter times	2.70 3.35 4.40 4.70 7.50 11.40 15.70 neter Casing: lament (m)	2.70 4.22 3.35 3.57 4.40 2.52 4.70 2.22 3.35 3.57 3.57 3.57 3.57 3.57 3.57 3.57	MADE CROUND: Light gey slightly sandy gravel. Sand is medium to coarse grained. subangular to subrounded fine to coarse of slag, concrete and quartz (assumed low cobble content. MADE GROUND: Grey slightly clayey sandy gravel. Sand is medium to coarse grained subangular to subrounded fine to coarse of slag (Assumed low to medium cobble coarse). MADE GROUND: Grey slightly clayey sandy gravel. Sand is medium to coarse grained assubangular to subrounded fine to coarse of slag, a mudstone and quartz. Black slightly clayey sandy SUT (Possible tall flat as deposits). Black slightly clayey sandy SUT (Possible tall flat as deposits). Black slightly clayey sandy SUT (Possible tall flat as deposits). Black slightly clayey sandy SUT (Possible tall flat as deposits). Stiff consistency brown slightly slightly gravely SAND. Sand is medium to coarse grained. Gravel is angular to subrounded fine to coarse of saltstor sandstone, mudstone and quartz. Stiff consistency brown slightly slightly slightly sandy slightly gravelly high strength CLA medium to coarse grained. Gravel is angular to subrounded fine to coarse of saltstor sandstone, mudstone and quartz. Stiff consistency dark brown slightly slightly slightly sandy slightly gravelly high strength CLA medium to coarse grained. Gravel is angular to subrounded fine to coarse of sand slistone, mudstone and quartz. Stiff consistency dark brown slightly slightly slightly sandy slightly gravelly high strength CLA medium to coarse grained. Gravel is angular to subrounded fine to coarse of sand slistone, mudstone and quartz. Stiff consistency dark brown slightly slightly slightly sandy slightly gravelly high strength CLA medium to coarse grained. Gravel is angular to subrounded fine to coarse of sand slistone, mudstone and quartz. Stiff consistency dark brown slightly slightly slightly sandy slightly gravelly high strength CLA medium to coarse grained. Gravel is angular to subrounded fine to coarse of sand slistone. Stiff consistency brown slightly slightly slightly slightl	MADE GROUND: light grey slightly sandy gravel. Sand is medium to coarse grained. Gravel is subangular to subrounded fine to coarse of slag, concrete and quartz (assumed low to medium cobble content. 4.22 MADE GROUND: Grey slightly clayey sandy gravel. Sand is medium to coarse grained. Gravel is subangular to subrounded fine to coarse of slag (Assumed low to medium cobble content). MADE GROUND: Dark brown/black sandy gravel. Sand is medium to coarse grained. Gravel is subangular to subrounded fine to coarse of sands along material to subrounded state to subrounded tine to coarse of sands along material to subrounded state to subrounded shage material to coarse grained. Gravel is subangular to subrounded fine to coarse of mudstone, silistone and quartz (occasional shell fragments note dibere). 7.50 4.48 Stiff consistency brown slightly sily slightly sandy slightly gravelly high strength CLAX Sand is medium to coarse grained. Gravel is angular to subrounded fine to coarse of silistone, mudstone and quartz. Stiff consistency brown slightly sily slightly sandy slightly gravelly high strength CLAX Sand is medium to coarse grained. Gravel is angular to subrounded fine to coarse of silistone, mudstone and quartz. Stiff consistency brown slightly sily slightly sandy slightly gravelly high strength CLAX Sand is medium to coarse grained. Gravel is angular to subrounded fine to coarse of sandstone, silistone, mudstone and quartz. Very weak dark reddish brown thinly laminated highly to completely weathered argiflaceous MUDSTONE. Resourced as sandy gravely cay from 18.40-18.50m. Resourced as coarse gravel from 17.20-18.40m. Resourced as coarse gravel from 17.20-18.40m. Resourced as coarse gravel from 18.60-20.20m. Resourced as coarse gravel from 18.60-20.20m. Resourced as coarse gravel from 18.60-20.20m. Resourced as coarse gravel from 18.60-20.20m.	MADE GROUND: light grey slightly sandy gravel. Sand is medium to coarse grained. Gravel is subangular to subrounded fine to coarse of slag, concrete and quartz (assumed low to medium cobble content. 1.00 MADE GROUND: Grey slightly clayey sandy gravel. Sand is medium to coarse grained. Gravel is subangular to subrounded fine to coarse of slag (bassumed low to medium cobble content). MADE GROUND: Grey slightly clayey sandy gravel. Sand is medium to coarse grained. Gravel is subangular to subrounded fine to coarse of slag (bassumed low to medium cobble content). MADE GROUND: Grey slightly clayey sandy gravel. Sand is medium to coarse grained. Gravel is subangular to subrounded fine to coarse of slag (bassumed low to medium cobble content). Lack slightly clayey sandy SIII (Possible total first deposits). Bark is medium to coarse grained. Gravel is subangular to subrounded fine to coarse of mudstone and quartz. Lack slightly clayey sandy SIII (Possible total first deposits). Bark is medium to coarse grained. Gravel is subangular to subrounded fine to coarse of slitstone. Stiff consistency brown slightly slity slightly sandy slightly gravelly high strength CIAX Sand is medium to coarse grained. Gravel is angular to subrounded fine to coarse of slitstone, sandstone, mudstone and quartz. Lack slightly clayer sandy slightly gravelly high strength CIAX Sand is medium to coarse grained. Gravel is angular to subrounded fine to coarse of slitstone, sandstone, substance, mudstone and quartz. Lack slightly slightly sandy slightly gravelly high strength CIAX Sand is medium to coarse grained. Gravel is angular to subrounded fine to coarse of sandstone, slitstone, mudstone and quartz. Lack slitstone, mudstone and quart	MADE GROUND: Light gery slightly sandy gravel. Sand is medium to coanse grained. Gravel is subanquiar to subrounded fine to coanse of slag, concrete and quartz (assumed low to medium cobble content. 1.00 PD 2.70 4.22 MADE GROUND: Grey slightly clayey sandy gravel. Sand is medium to coanse grained. Gravel is subanquiar to subrounded fine to coarse of slag (desamed low to medium cobble content). 3.00 SD 3.35 3.57 MADE GROUND: Grey slightly clayey sandy gravel. Sand is medium to coanse grained. Gravel is subanquiar to subrounded fine to coarse of slag (desamed low to medium cobble content). 3.00 SD 3.00	MADE GROUND: Light grey slightly samely gravel. Sand is medium to coasse grained. Gravel is subaugular to subrounded fine to coasse of slag, concrete and quartz (assumed low to medium cobile content. 1.00

SOLME	12-16 Yarm Road Stockton on Tees K TS18 3NA 01642 607083 info@solmek.com		Во	rehole Lo	og		Scale 1:100	Sheet 2 of 2
					Driller:	GeoSonic Ltd	GL(CD):	6.92m
Contract no:	S220215	Site:	South Bank Quay, Teesworks		Plant used:	Sonic Rig	Easting:	453737
					Started:	10/03/2022	Northing:	522882
Client:	Graham				Ended:	10/03/2022	Logged:	SM
Method:	Sonic Drilling				Backfilled:	10/03/2022	Status:	FINAL

Method	d:	Sonic D			Ended: Backfille	eq.	10/03/				Status:	FINAL
		SOIIIC D	i iiiiiig		····	10/03/	~U~~	Ć 1		status. situ Testing		
Backfill / Installation	Legend	Depth (m)	Level (m CD)	Stratum Description	y weak dark reddish brown thinly laminated highly to completely weathered argillac							esults
<u> </u>		<u> </u>	-	Very weak dark reddish brown thinly laminated highly to completely wood	thered a	rgillacon	nis	Dept		Type ES		
				MUDSTONE.	diereu a	igmacec	Jus	20.	.00	123		
				Recovered as sandy gravelly clay from 20.20-22.00m.				21.	.00	PID		0.20 -
		Ė						21.	.00	ES		
				Daniel de care en la fare 20 00 00 00 00 00 00 00 00 00 00 00 00				22.	.00	PID		0.20 -
				Recovered as coarse gravel from 22.00-23.00m.				22.	.00	ES		
		23.00	-16.08					23.	.00	PID		0.20 -
				End of Borehole at 23.000m				23.	.00	ES		
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		E										0.20 - 0.20 - 0.20 0.20
		Ē										
Hole Di	iameter	Casing	Depths	General Remarks	Chi	iselling				Ground W	ater	
Depth Base (m)	Diameter (mm)	Depth Base (m)	Diameter (mm)	1. Hand Dug Inspection Pit to 1.20mbgl.			Time (hr)	Depth Strike (m)	Depth Casing (m)		Time Elapsed (min)	Water Level (m)
23.00	(mm) 102	(m) 23.00	(mm) 102	2. No Groundwater Noted.				(III)	(III)	(III)	(mm)	
_	_			·	_	_				_	_	

SOLM	12-16 Yarm Road Stockton on Tees IEK TS18 3NA 01642 607083 info@solmek.com		Boro	ehole Log		S	BH	Sheet 1 of 2 [13]
Contract no:	S220215	Site:	South Bank Quay, Teesworks	Driller: Plant used: Started:	GeoSonic Sonic Rig 23/02/20	E	asting:	6.96m 453767 522914
Client: Method:	Graham Sonic Drilling	<u>'</u>		Ended: Backfilled:	24/02/20 24/02/20			SM FINAL
Method:	Soliic Drilling			раскпиец:	24/02/20	J.C.L. 31	tatus:	FINAL

nt:	Grahan		Ended		24/02/				Logged:	SM	
hod:	Sonic D	rilling	Backf	illed:	24/02/	2022			Status:	FINAL	_
s _							Samp	les and Ins	situ Testing		
stallatio Legend	Depth (m)	Level (m CD)	Stratum Description		ļ			Г	<u> </u>		_
Installation Legend	ے ق] n				Dept	h (m)	Туре	Re	sults	
	<u> </u>	-	MADE CROUND: Dark brown slightly clayer gravelly sand. Cravel is subangular t	to cubroun	dod	_		-			_
			MADE GROUND: Dark brown slightly clayey gravelly sand. Gravel is subangular t fine to coarse of slag, concrete, mudstone and quartz.	to subtouii	iueu						
	0.95	6.01	-				0.0	nm		00	
	E 0.33	0.01	MADE GROUND: Dark greyish brown slightly clayey sandy gravel. Gravel is angul	lar to		1.	UU	PID	"	.00	-
	₹		subrounded fine to coarse of slag and concrete.			=					
	F	-				2.		PID	0	.10	-
	€					2.	10	ES			
	E					3.	00	PID		.50	_
	E					_	10	ES		.50	
	3.60	3.36	MADE GROUND: Black slightly clayey gravelly sand. Gravel is subangular to subr	ounded fir	ne to						
	₽	=	coarse of slag. Slight hydrocarbon odour noted here.			4.		PID	3	.90	-
	4.50	2.46	Black slightly clayey sandy SIIT.			4.	10	ES			
XX	4.70	2.26	Very dark grey slightly silty slightly gravelly SAND. Gravel is angular to subround	ed fine to	coarse	<u> </u>	00	PID	0	.80	
(() (x · · x)	*		of mudstone, marl and quartz. Frequent shell fragments noted here.				10	ES			
//×,××	<u> </u>					=					
//×·×·>	F	=					00	PID	0	.90	-
(X X)	E					О.	10	ES			
×××	6.95	0.01	Dark greyish brown slightly gravelly SAND. Gravel is subangular to subrounded fi	ino to coa	rso of	7.	00	PID	0	.50	_
	Ė		mudstone and quartz. Frequent shell fragments noted here. Occasional black st			7.	10	ES			
	1		present.	Ü							
	8.10	-1.14	Stiff consistency becoming very stiff with depth brown mottled grey slightly san	dy slightly		- 8. 8.	00 10	PID ES	"	.40	-
	1		gravelly CIAY. Gravel is subangular to subrounded fine to coarse of coal, sandsto			0.	10	1.5			
	<u> </u>	-	siltstone, gypsum and quartz.			9.	00	PID	0	.30	
//	1					9.	10	ES			
	1					10	00	PID		40	
	₽					_	.00 .10	ES	"	.40	
	[
	F	-				11		PID	0	.50	-
	Ė					11	.10	ES			
]				19	.00	PID	"	.30	_
//	ŧ					12		ES		.50	
	1										
//	1	-					.00	PID	0	.30	-
						13	.10	ES			
	Ł]				14	.00	PID	0	.20	_
	1					14		ES			
	1										
	15.00	-8.04	Very weak to weak dark reddish brown highly to completely weathered argillac	eous MUD	STONE		.00 .10	PID ES	0	.30	-
	ŧ		recovered as clayey gravel from 15.0-15.85m. Fractures are sub horizontal planar smooth with occasional clay infilling and mir	1		13	.10	123			
	₽	-	fractures are sub nonzontal planar smooth with occasional day limiling and mir fracture surface.	nerai staini	ing on	16	.00	PID	0	.20	-
			Recovered as stiff to very stiff consistency dark reddish brown slightly sandy slightly gravelly CLAY.			16	.10	ES			
	<u> </u>										
	Ē					- 17 17	.00 .10	PID ES	0	.20	
	‡					•	.10	10			
	<u> </u>	-				18	.00	PID	0	.30	
	‡					18	.10	ES			
	‡					10	00	DID	1	90	
	₽		Recovered as a dark reddish brown gravelly medium to coarse SAND.				.00 .10	PID ES	1	.20	-
	<u> </u>										
369	<u> </u>	-				20	.00	PID	0	.40	_
e Diameter	Casing	Depths	General Remarks Control of the Contr	Chiselling				Ground W	ater		_
th Diameter (mm)	Depth Base (m)	Diameter (mm)	1. Hand Dug Inspection Pit to 1.20mbgl. 2. No Groundwater Noted.	To (m)	Time (hr)	Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level (r	m)
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	23.00	102	2. No Gouldwater Noted.			. 7	,	,	,		
	1	I						1	1		

SOLME	12-16 Yarm Road Stockton on Tees TS18 3NA 01642 607083 info@solmek.com		Bor	rehole Log			Scale 1:100	Sheet 2 of 2
				Dr	riller:	GeoSonic Ltd	GL(CD):	6.96m
Contract no:	S220215	Site:	South Bank Quay, Teesworks	Pla	lant used:	Sonic Rig	Easting:	453767
				Sta	tarted:	23/02/2022	Northing:	522914
Client:	Graham			En	nded:	24/02/2022	Logged:	SM
Method:	Sonic Drilling			Ba	ackfilled:	24/02/2022	Status:	FINAL
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Method	l:	Sonic D	rilling	Bac	kfilled:	24/02/	2022			Status:	FINAL
ill / ation	pu	th)	a Ĉ					Samp	les and Ins	itu Testing	
Backfill / Installation	Legend	Depth (m)	Level (m CD)	Stratum Description			Dept	h (m)	Туре	Re	esults
				Very weak to weak dark reddish brown highly to completely weathered argill recovered as clayey gravel from 15.0-15.85m.	aceous MU	DSTONE	20	.10	ES		
				Fractures are sub horizontal planar smooth with occasional clay infilling and r fracture surface. Recovered as a dark reddish brown slightly sandy coarse GRAVEL. Recovered as stiff to very stiff consistency dark reddish brown slightly sandy slightly gravelly CLA		ning on		.00 .10	PID ES	(0.30
				Recovered as a dark reddish brown slightly sandy coarse GRAVEL. Recovered as stiff to very stiff consistency dark reddish brown slightly sandy slightly gravelly CLA Recovered as a dark reddish brown slightly sandy coarse GRAVEL.				.00 .10	PID ES	(0.10
		23.00	-16.04	1			23	.00	PID	(
							<u>-</u>				_
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Hole Di		Casing		General Remarks	Chiselling		Danth Cant	Donth C	Ground W		
Depth Base (m)	Diameter (mm)	Depth Base (m) 23.00	Diameter (mm) 102	1. Hand Dug Inspection Pit to 1.20mbgl. 2. No Groundwater Noted.	To (m)	Time (hr)	(m)	(m)	Depth Sealed (m)	(min)	Water Level (m)
			l	<u> </u>	1		I	I.			

		Stockton			D	shala Taw			Scale 1:100	
	SOLME	01642 60			BOD	ehole Log			BH	114
						Driller:	GeoSo	onic Ltd	GL(CD):	6.92m
Contra	ct no:	S220215	5	Site:	South Bank Quay, Teesworks	Plant used:	Sonic I	Rig	Easting:	453796
						Started:	09/03/	/2022	Northing:	522945
Client:		Graham				Ended:	09/03/	/2022	Logged:	SM
Metho	d:	Sonic Dr	illing			Backfilled:	09/03/	/2022	Status:	FINAL
					-	•			 	

d:	Grahan Sonic D		Ended: Backfille	nd.	09/03/2 09/03/2					SM FINAL
	JOING D	lilling	DRUMINE		03/03/2	.022	Samn	les and Ins	itu Testing	FIIVAL
Legend	Depth (m)	Level (m CD)	Stratum Description		-	Deptl		Туре	Resu	ılts
*******	>_	_	MADE GROUND: Light grey sandy gravel. Sand is medium to coarse grained. Grave	d ic cubar	agular -	Бера	- ()	Турс	14.54	
	E		to subrounded fine to coarse of slag, concrete and quartz.	a is subai	iguiai E					
	E	=			E	- 1.0	00	PID	2.7	0
	E				Ē					
	1.85	5.07	MADE GROUND: Dark greyish brown sandy gravel. Sand is medium to coarse grain	ned. Grave	el is	- 2.0	00	PID	2.2	:0
	E		angular to subrounded fine to coarse of slag.		E	2.0	00	ES		
	<u> </u>				Ē	- 3.0	00	PID	2.3	0
	3.20	3.72	MADE GROUND: Black sandy gravel. Sand is coarse grained. Gravel is subangular to	o subrou	nded	3.0	00	ES		
	3.90	3.02	fine to coarse of slag (hydrocarbon odour noted here). MADE GROUND: Light grey slightly clayey sandy gravel. Sand is medium to coarse s	grained.		- 4.0	00	PID	3.1	0
××××	4.10 4.50	2.82 2.42	Gravel is angular to sub rounded fine to coarse of slag.			4.0		ES		-
(XXXX			Black slightly silty slightly gravelly SAND. Sand is medium to coarse grained. Gravel to subrounded fine to coarse of mudstone, marl and quartz. (Hydrocarbon odour r	l is suban noted hei	gular re)	- 5.0	00	PID	3.8	30
× ×	Ė		(Oil based coating noted here).			5.0		ES	3.0	
×××	Ė		Dark grey and black (staining) slightly slity slightly gravelly SAND. Sand is medium t grained. Gravel is subangular to subrounded fine to coarse of mudstone, siltstone	to coarse and quar	rtz	- 6.0	10	PID	0.9	ın.
	6.10	0.82	(frequent shell fragments noted here). Dark brown slightly gravelly SAND. Sand is medium to coarse grained. Gravel is sub	hanmular	to [- 6.0		ES	0.8	U
	Ē		subrounded fine to medium of quartz, siltstone and mudstone (Frequent shell frag			~ .		, pro		
			here).		E	- 7.0 7.0		PID ES	1.4	10
					Ē					
	8.00	-1.08	Dark brown slightly sandy slightly gravelly high strength CIAY. Sand is medium to c			- 8.(8.(PID ES	0.8	30
			Gravel is subangular to subrounded fine to coarse of siltstone, sandstone, mudston	ne and q	uartz.					
	9.00	-2.08	Dark brown slightly gravelly SAND. Sand is medium to coarse grained. Gravel is ang	gular to s	ub	- 9.0 9.0		PID ES	0.2	:0
	E		rounded fine to coarse of mudstone, siltstone and quartz.		E					
	Ē.,				E	- 10. 10.		PID ES	0.3	80
	10.40	-3.48	Dark brown slightly sandy slightly gravelly high strength CIAY. Sand is medium to co		ined.	10.	00			
	ŧ	-	Gravel is subangular to subrounded fine to coarse of siltstone, mudstone and quar	rtz.	Ē	- 11. 11.		PID ES	0.2	0
	ŧ				F	11.	UU	ES		
	₽	-			E	- 12.		PID	0.2	0
	Ē				E	12.	UU	ES		
<u> </u>	£				E	- 13.		PID	0.2	0
-:-	13.30	-6.38	Dark reddish brown slightly sandy slightly gravelly high strength CIAY. Sand is medi			13.	00	ES		
<u> </u>	ŧ	-	grained. Gravel is sub angular to sub rounded fine to coarse of mudstone, siltstone	e and qua	ırtz.	- 14.		PID	0.2	20
<u> </u>	Ē				ŧ	14.	00	ES		
	-	-			F	- 15.	00	PID	0.2	20
	15.30	-8.38	Extremely weak to very weak dark reddish brown thinly laminated highly to compl			15.	00	ES		
		-	weathered argillaceous MUDSTONE (MERCIA MUDSTONE). Gypsum veins are local (-1cm) thickness.	ılly presei	nt E	- 16.	00	PID	0.3	80
			Recovered as coarse gravel from 15.30-16.90m)		E	16.	00	ES		
			Extremely weak to very weak dark reddish brown thinly laminated highly to completely weathered argilla	aceous	E	- 17.	00	PID	0.2	20
			MUDSTONE		E	17.	00	ES		
			Recovered as coarse GRAVEL between 18.00-18.30m.		E	- 18.	00	PID	0.3	80
			Extremely weak to very weak dark reddish brown thinly laminated highly to completely weathered argilla MUDSTONE	aceous	E	18.	00	ES		
		-	Recovered as coarse GRAVEL between 18.60-19.20m.		E	- 19.	00	PID	0.2	20
					E	19.	00	ES		
	<u> </u>					20.	00	PID	0.2	0
iameter	Casing	Depths	General Remarks Chis	iselling				Ground W	ater	
Diameter (mm)	Depth Base (m)	Diameter (mm)	1. Hand Dug Inspec tion Pit to 1.20mbgl. 2. No Groundwater Noted.	fo (m)	lime (hr)	Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Vater Level (
102	23.00	102	p. 10 Goddwater Micu.							

SOLME	12-16 Yarm Road Stockton on Tees IK TS18 3NA 01642 607083 info@solmek.com		Ве	orehole La	g		Scale 1:100	Sheet 2 of 2
					Driller:	GeoSonic Ltd	GL(CD):	6.92m
Contract no:	S220215	Site:	South Bank Quay, Teesworks		Plant used:	Sonic Rig	Easting:	453796
					Started:	09/03/2022	Northing:	522945
Client:	Graham				Ended:	09/03/2022	Logged:	SM
Method:	Sonic Drilling				Backfilled:	09/03/2022	Status:	FINAL

Method:	Sonic D	rilling		Backfi	lled:	09/03/	2022			Status:	FINAL
Backfill / Installation Legend	th (r	Level (m CD)	Stanton Description					Sampl	es and Ins	itu Tes ting	
Backfill / Installatio Legend	Depth (m)	(n Fe	Stratum Description				Dept	h (m)	Туре	Re	sults
			Extremely weak to very weak dark reddish brown thinly laminated highly weathered argillaceous MUDSTONE (MERCIA MUDSTONE). Gypsum vein (-1cm) thickness. Extremely weak to very weak durk reddish brown thinly laminated highly to completely weak MUDSTONE Recovered as clayey coarse GRAVEL between 20.65-23.00m.	is are lo	cally pres	sent	20.	.00	ES PID ES	().30
			recorded at stay y states of the 22 states are the states at the states						PID ES	(.30
	23.00	-16.08	End of Borehole at 23.000m				23.		PID ES	().10
	<u></u>										_
											-
		=									<u>-</u>
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											_
											- - - - - - - -
	<u> </u>	=					<u></u>				
	<u> </u>										-
							<u> </u>				
		=									
Hole Diameter	Casing		General Remarks	С	hiselling				Ground Wa		
Depth Base (m) Diameter (mm) 23.00 102	Depth Base (m) 23.00	Diameter (mm) 102	1. Hand Dug Inspec ton Pit to 1.20mbgl. 2. No Groundwater Noted.	om (m)	To (m)	Time (hr)	Depth Strike (m)	Depth Casing (m)	Depth Sealed (m)	Time Elapsed (min)	Water Level (m)

A :	SOLME	Stocktor TS18 3N 01642 6			Во	rehole L	g			Scale 1:100	Sheet 1 of 2
Contra	ct no:	S220215		Site:	South Bank Quay, Teesworks		Driller: Plant used: Started:	GeoSo Sonic I 22/02/	Ric	GL(CD): Easting: Northing:	6.94m 453813 522962
Client:		Graham					Ended:	23/02/	2022	Logged:	SM
Metho	d:	Sonic Di	illing				Backfilled:	23/02/	2022	Status:	FINAL
						·				 	

Client:		Graham			Ended:	_	23/02/				Logged:	SM	
Method:	:	Sonic Dr	illing		Backfille	d:	23/02/	2022			Status:	FINAL	
fill /	Legend	Depth (m)	Level (m CD)	Stratum Description					Samp	les and Ins	situ Testin	g	
Backfill / Installation	Leg	u)	m (m	знаши резстриоп				Dept	th (m)	Туре	F	Results	
				MADE GROUND: Very dark reddish brown slightly clayey sandy gravel of k Sand is medium to coarse. Gravel is angular to subrounded fine to coarse				0.	.50	PID		0.20	
		0.72	6.22	quartz. MADE GROUND: Dark greyish brown sandy gravel. Sand is medium to coa subangular to subrounded fine to coarse of slag.	rse. Grav	el is	/	1.	.00	PID		0.30	1
				subangular to subtounded the to coarse of stag.				9	.00	PID		0.30	
								٤.	.00	1110		0.30	
		_	=					3.	00	PID		0.20	
			=					4.	00	PID		0.40	
	*****	4.45	2.49	Softconsistency black sandy SIIT. Sand is medium to coarse.				4.	.60	ES			=
		4.70	2.24	Black silty slightly gravelly SAND. Sand is medium to coarse. Gravel is suba fine to medium of mudstone and quartz.	ıngular to	subrou	ınded	5.	.00	PID		0.70	4
			=	Child have been declared.				5.	.60	ES			=
			-	Slight hydrocarbon odour noted.				6.	.00	PID		0.90	=
								e e	.60	ES			=
			_					-	.00	PID		1.10	₫
			=					E				•	=
		7.85	-0.91	YILL BUILD BOAND C. V. V.				-	.60	ES		0.70	=
		-	=	Light brown slightly gravelly SAND. Sand is medium to coarse. Gravel is sul subrounded fine to coarse of mudstone and quartz.	bangular	to		8.	.00	PID		0.70	=
		8.40	-1.46	•			/	8.	60	ES			=
			=	\ \text{Frequent shell fragments noted.} \ Stiff consistency dark reddish brown slightly sandy slightly gravelly CIAY. S	and is me	odium t		9.	.00	PID		0.60	=
				coarse. Gravel is subangular to subrounded fine to coarse of coal, mudsto			.U	9	.60	ES			
			3	siltstone and quartz.				F	.00	PID		0.70	=
			=					- "				00	=
			=					F	.60	ES			=
								- 11	.00	PID		0.20	
			=					11	.60	ES			=
		-	-					12	.00	PID		0.40	=
			=					19	.60	ES			=
								-	.00	PID		0.50	
·			=					Ė		""		0.30	=
			=					13	.60	ES			=
			1					14	.00	PID		0.30	=
								14	.60	ES			=
		15.00	-8.06	Very weak to weak dark reddish brown highly to completely weathered a	raillacaca	ıs Miin	STONE	15	.00	PID		0.40	크
			=	(MERCIA MUDSTONE). Fractures are subhorizontal-horizontal planar smoo	oth with	occasio:	nal		en	EC			=
				clay infilling and mineral staining on fracture surfaces. 15.00-15.95m: Recovered as coarse GRAVEL.				-	.60 .00	ES PID		0.30	=
			=	15.00-15.95n: Recovered as coarse GRAVEL. 15.95-17.80m: Recovered as stiff consistency dark reddish brown slightly sandy slightly grave	elly CLAY.			10				0.00	=
			=					F	.60	ES			=
								17	.00	PID		0.40	-
								17	.60	ES			=
		-	=	17.80-18.30m: Recovered as dark reddish brown slightly gravelly medium to coarse SAND.				18	.00	PID		0.20	=
			=	18.30-19.30m: Recovered as dark reddish brown slightly sandy slightly gravelly CLAY.				10	.60	ES			Lumini
			_					F	.00	PID		0.20	=
			=	19.30-20.30m: Recovered as coarse GRAVEL.				1"	.00			0.20	=
			=					F	.60	ES		0.0-	3
								20	.00	PID		0.20	
Hole Dia	meter Diameter	Casing I	Depths Diameter	General Remarks 1. Hand Durg Inspection Pit to 1.20mbd		selling		Depth Strike	Depth Casing	Ground W Depth Sealed			
Base (m)	(mm)	Depth Base (m)	(mm)	1. Hand Dug Inspection Pit to 1.20mbgl. 2. No Groundwater Noted.	(m) To	o (m)	Time (hr)	(m)	Depth Casing (m)	(m)	(min)	Water Leve	el (m)
16.50	140 102		140	3. 5.5hr Medical.									

	12-16 Yarm R Stockton on T					Scale 1:10	Sheet 2 of 2
SOLMI		3	Bore	ehole Log		B	H15
				Driller:	GeoSonic Ltd	GL(CD):	6.94m
Contract no:	S220215	Site:	South Bank Quay, Teesworks	Plant used:	Sonic Ric	Easting:	453813
				Started:	22/02/2022	Northing:	522962
Client:	Graham			Ended:	23/02/2022	Logged:	SM
Method:	Sonic Drillin	ıg		Backfilled:	23/02/2022	Status:	FINAL

Method:	Sonic Di	rilling		Backfille	ed:	23/02/	2022			Status:	FINAL
Backfill / Installation Legend	Depth (m)	Level (m CD)	Stratum Description					Sampl	es and Ins	itu Testing	
Back Install Lege	Dek (n	Le. (m)					Dept	h (m)	Туре	Re	sults
			Very weak to weak dark reddish brown highly to completely weathered ar (MERCIA MUDSTONE). Fractures are subhorizontal-horizontal planar smootaly infilling and mineral staining on fracture surfaces.	rgillaceou	us MUDS occasion	STONE nal	20. 21. 21. 22.	.00 .60 .00	ES PID ES PID).20).20
	23.00	-16.06	End of Borehole at 23.000m				23.		PID	(.20
											0.20 0.20 0.20
Hole Diameter Depth Diameter	Casing Depth Base		General Remarks 1. Hand Durg Inspection Pit to 1.20mbgl		selling		Danth Ct:1	Danth Co-t-	Ground Wa		
Depth Diameter (mm)	Depth Base (m)	Diameter (mm) 140	1. Hand Dug Inspection Pit to 1.20mbgl. 2. No Groundwater Noted. 3. 5.5hr Medical.	(m) To	ò (m)	Time (hr)	Depth Strike (m)	(m)	Depth Sealed (m)	Time Etapsed (min)	Water Level (m)