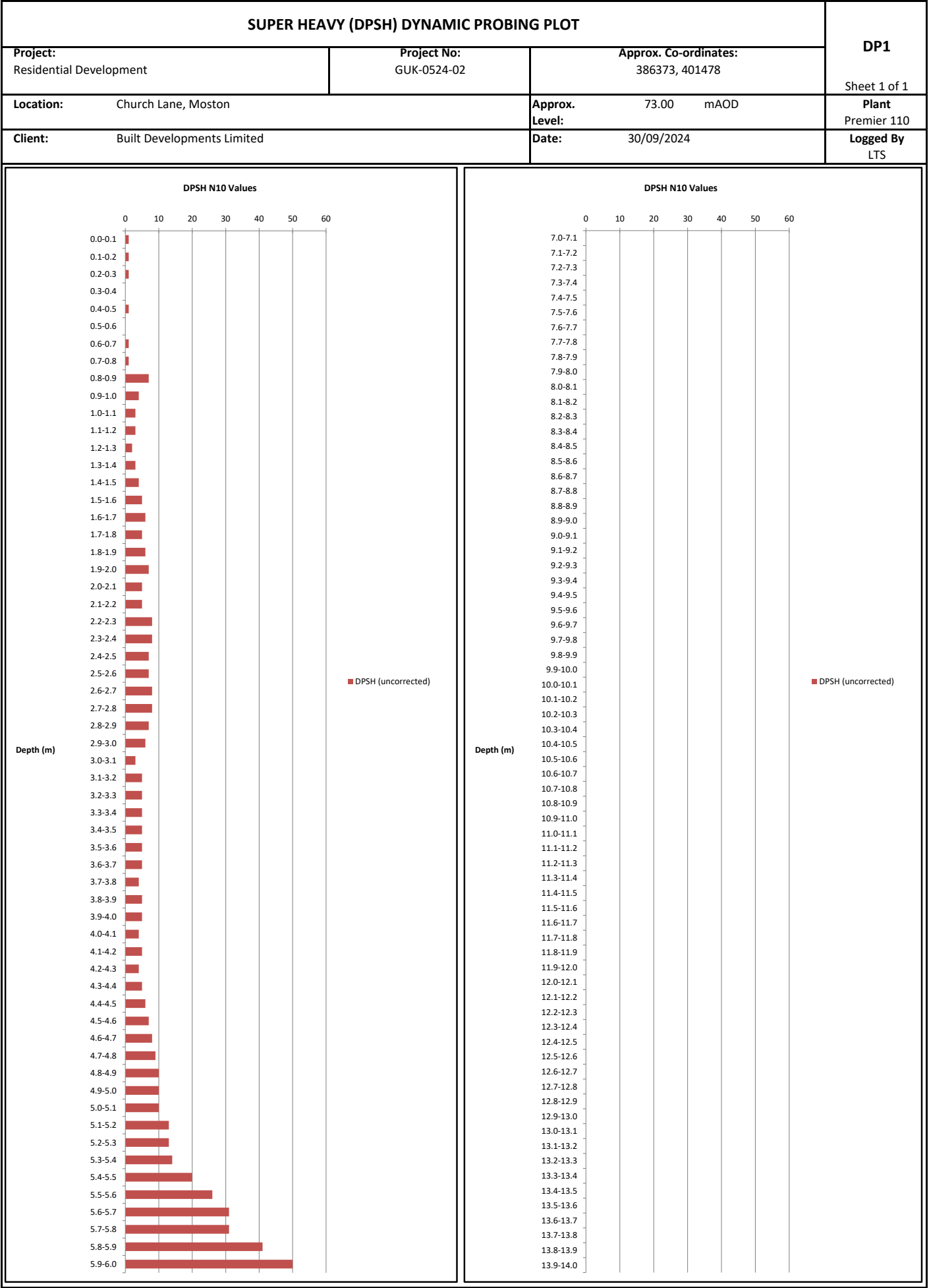


APPENDIX B

Ground Investigation Records

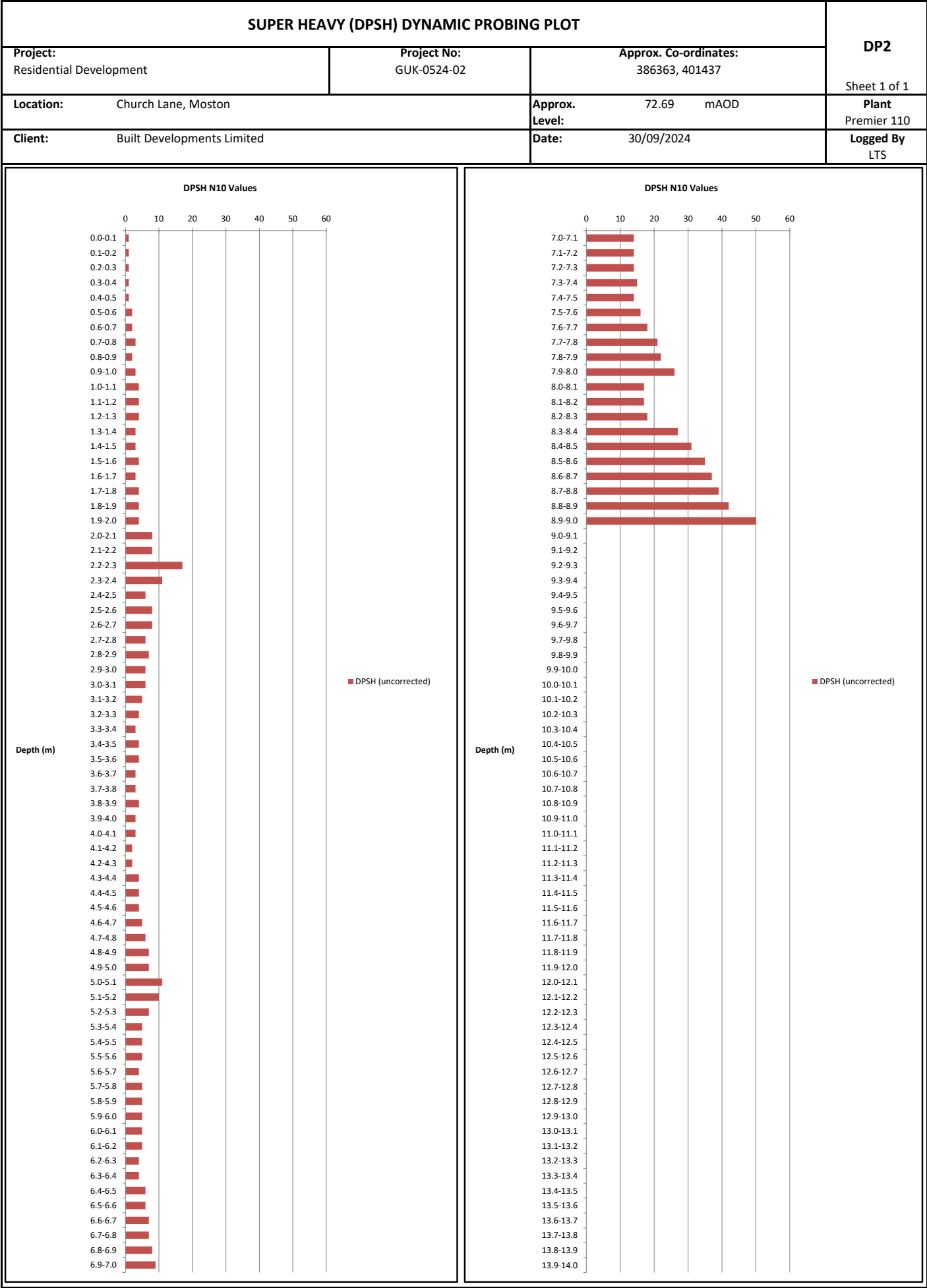
GROUNDSMITHS GEOTECHNICAL ENGINEERS												PERCUSSIVE SAMPLER BOREHOLE RECORD						BH1	
Project: Residential Development				Project No: GUK-0524-02						Approx. Coordinates: 386369, 401480				Sheet 1 of 1					
Location: Church Lane, Moston										Approx. Level: 72.99 mAOD		Plant 110							
Client: Built Developments Limited										Date: 04/10/2024		Logged By AS							
Well	Water (m bgl)	Samples & Field Testing			Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description								
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)											
		0.2	ES1						0.0-0.6	72.99	MADE GROUND: Loose clinker, sand, mixed gravel, and fragments of brick and concrete (RECONSTITUTED GROUND).								
		0.5	ES2													0.6-1.3	72.39	Firm becoming stiff brown mottled grey sandy slightly gravelly CLAY with carbonaceous fragments. Gravel is subangular sandstone. Medium to high undrained shear strength. Low plasticity (DIAMICTON).	
		1.0	DS1	2/2, 2,2,4,4 (12)	18.6	34	16	18		1.3-5.0								71.69	Very stiff dark brown mottled grey sandy slightly gravelly thinly laminated CLAY. Gravel is rounded and subrounded quartz and sandstone. High undrained shear strength. Low plasticity (DIAMICTON).
		1.5	ES3																
		2.0							5/5, 7,7,8,10 (32)										
		2.5																	
		3.0	DS2 ES4							4/4, 5,5,7,7, (24)				16	36	21	15		
		3.5																	
		4.0	DS3 ES5										4/4, 5,7,9,11 (32)						
		4.5																	
		5.0	DS4										8/8, 8,8,9,10 (35)						
		5.5																	
		6.0																	
		6.5																	
		7.0																	
Boring Progress and Water Observations												General Remarks							
	Date 04/10/2024	Water Depth none	Casing										ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample						
			Depth	Dia. mm										From	To	Hours	Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified		

SUPER HEAVY (DPSH) DYNAMIC PROBING RECORD									DP1
Project: Residential Development			Project No: GUK-0524-02		Approx. Co-ordinates: 386373, 401478			Sheet 1 of 1	
Location: Church Lane, Moston					Approx. Level: 73.00 mAOD			Plant Premier 110	
Client: Built Developments Limited					Date: 30/09/2024			Logged By LTS	
	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)
	0.0-0.1	1		7.0-7.1			14.1-14.2		
	0.1-0.2	1		7.1-7.2			14.2-14.3		
	0.2-0.3	1		7.2-7.3			14.3-14.4		
	0.3-0.4	0		7.3-7.4			14.4-14.5		
	0.4-0.5	1		7.4-7.5			14.5-14.6		
	0.5-0.6	0		7.5-7.6			14.6-14.7		
	0.6-0.7	1		7.6-7.7			14.7-14.8		
	0.7-0.8	1		7.7-7.8			14.8-14.9		
	0.8-0.9	7		7.8-7.9			14.9-15.0		
	0.9-1.0	4	1.7	7.9-8.0			15.0-15.1		
	1.0-1.1	3		8.0-8.1			15.1-15.2		
	1.1-1.2	3		8.1-8.2			15.2-15.3		
	1.2-1.3	2		8.2-8.3			15.3-15.4		
	1.3-1.4	3		8.3-8.4			15.4-15.5		
	1.4-1.5	4		8.4-8.5			15.5-15.6		
	1.5-1.6	5		8.5-8.6			15.6-15.7		
	1.6-1.7	6		8.6-8.7			15.7-15.8		
	1.7-1.8	5		8.7-8.8			15.8-15.9		
	1.8-1.9	6		8.8-8.9			15.9-16.0		
	1.9-2.0	7	4.4	8.9-9.0			16.0-16.1		
	2.0-2.1	5		9.0-9.1			16.1-16.2		
	2.1-2.2	5		9.1-9.2			16.2-16.3		
	2.2-2.3	8		9.2-9.3			16.3-16.4		
	2.3-2.4	8		9.3-9.4			16.4-16.5		
	2.4-2.5	7		9.4-9.5			16.5-16.6		
	2.5-2.6	7		9.5-9.6			16.6-16.7		
	2.6-2.7	8		9.6-9.7			16.7-16.8		
	2.7-2.8	8		9.7-9.8			16.8-16.9		
	2.8-2.9	7		9.8-9.9			16.9-17.0		
	2.9-3.0	6	6.9	9.9-10.0			17.0-17.1		
	3.0-3.1	3		10.0-10.1			17.1-17.2		
	3.1-3.2	5		10.1-10.2			17.2-17.3		
	3.2-3.3	5		10.2-10.3			17.3-17.4		
	3.3-3.4	5		10.3-10.4			17.4-17.5		
	3.4-3.5	5		10.4-10.5			17.5-17.6		
	3.5-3.6	5		10.5-10.6			17.6-17.7		
	3.6-3.7	5		10.6-10.7			17.7-17.8		
	3.7-3.8	4		10.7-10.8			17.8-17.9		
	3.8-3.9	5		10.8-10.9			17.9-18.0		
	3.9-4.0	5	4.7	10.9-11.0			18.0-18.1		
	4.0-4.1	4		11.0-11.1			18.1-18.2		
	4.1-4.2	5		11.1-11.2			18.2-18.3		
	4.2-4.3	4		11.2-11.3			18.3-18.4		
	4.3-4.4	5		11.3-11.4			18.4-18.5		
	4.4-4.5	6		11.4-11.5			18.5-18.6		
	4.5-4.6	7		11.5-11.6			18.6-18.7		
	4.6-4.7	8		11.6-11.7			18.7-18.8		
	4.7-4.8	9		11.7-11.8			18.8-18.9		
	4.8-4.9	10		11.8-11.9			18.9-19.0		
	4.9-5.0	10	6.8	11.9-12.0			19.0-19.1		
	5.0-5.1	10		12.0-12.1			19.1-19.2		
	5.1-5.2	13		12.1-12.2			19.2-19.3		
	5.2-5.3	13		12.2-12.3			19.3-19.4		
	5.3-5.4	14		12.3-12.4			19.4-19.5		
	5.4-5.5	20		12.4-12.5			19.5-19.6		
	5.5-5.6	26		12.5-12.6			19.6-19.7		
	5.6-5.7	31		12.6-12.7			19.7-19.8		
	5.7-5.8	31		12.7-12.8			19.8-19.9		
	5.8-5.9	41		12.8-12.9			19.9-20.0		
	5.9-6.0	50	24.9	12.9-13.0			20.0-20.1		
	6.0-6.1		Refusal	13.0-13.1			20.1-20.2		
	6.1-6.2			13.1-13.2			20.2-20.3		
	6.2-6.3			13.2-13.3			20.3-20.4		
	6.3-6.4			13.3-13.4			20.4-20.5		
	6.4-6.5			13.4-13.5			20.5-20.6		
	6.5-6.6			13.5-13.6			20.6-20.7		
	6.6-6.7			13.6-13.7			20.7-20.8		
	6.7-6.8			13.7-13.8			20.8-20.9		
	6.8-6.9			13.8-13.9			20.0-21.0		
	6.9-7.0			13.9-14.0			21.0-21.1		



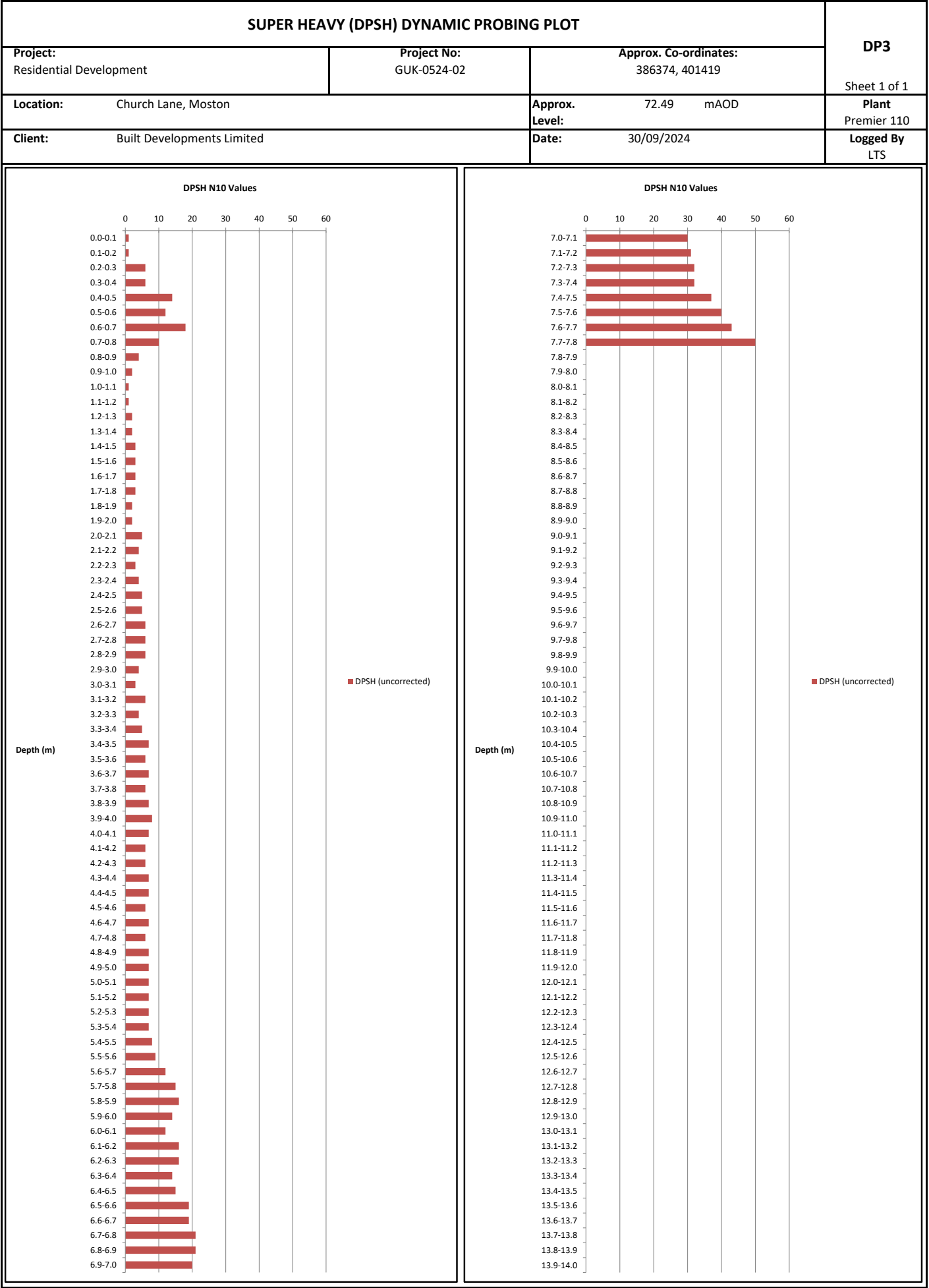
GROUNDSMITHS GEOTECHNICAL ENGINEERS											PERCUSSIVE SAMPLER BOREHOLE RECORD					BH2	
Project: Residential Development				Project No: GUK-0524-02						Approx. Coordinates: 386366, 401440			Sheet 1 of 1				
Location: Church Lane, Moston									Approx. Level: 72.69 mAOD			Plant 110					
Client: Built Developments Limited									Date: 04/10/2024			Logged By AS					
Well	Water (m bgl)	Samples & Field Testing			Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description						
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)									
		0.5	0.5	ES1	2/3, 3,5,5,5 (18)	22.3	43	22	21	0.0-0.6	72.69	MADE GROUND: Dark brown-black loam over clinker, sand and brick (RECONSTITUTED GROUND).					
		0.6-1.5	72.09	Stiff becoming very stiff orange-brown mottled grey sandy slightly gravelly CLAY. Gravel is subangular sandstone. Medium to high undrained shear strength. Intermediate plasticity (DIAMICTON).													
		1.0	1.0	DS1	4/5, 5,6,8,10 (29)	16.1	38	21	17	1.5-2.5	71.19	Very stiff dark brown CLAY. Medium to high undrained shear strength. High undrained shear strength. Low plasticity (DIAMICTON).					
		1.5	1.5	ES2													
		2.0	2.0														
		2.5															
		3.0	3.0	DS2	10/11, 13,14,15,8 (50)												
		3.5															
		4.0															
		4.5															
5.0																	
5.5																	
6.0																	
6.5																	
7.0																	
Boring Progress and Water Observations											General Remarks						
Date	Water Depth	Casing			Chiselling						ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified						
		Depth	Dia. mm		From	To	Hours										
04/10/2024	none	-	-														

SUPER HEAVY (DPSH) DYNAMIC PROBING RECORD									DP2
Project: Residential Development				Project No: GUK-0524-02		Approx. Co-ordinates: 386363, 401437			
Location: Church Lane, Moston						Approx. Level: 72.69 mAOD			
Client: Built Developments Limited						Date: 30/09/2024			
						Sheet 1 of 1			Plant Premier 110
						Logged By LTS			
	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)
	0.0-0.1	1		7.0-7.1	14		14.1-14.2		
	0.1-0.2	1		7.1-7.2	14		14.2-14.3		
	0.2-0.3	1		7.2-7.3	14		14.3-14.4		
	0.3-0.4	1		7.3-7.4	15		14.4-14.5		
	0.4-0.5	1		7.4-7.5	14		14.5-14.6		
	0.5-0.6	2		7.5-7.6	16		14.6-14.7		
	0.6-0.7	2		7.6-7.7	18		14.7-14.8		
	0.7-0.8	3		7.7-7.8	21		14.8-14.9		
	0.8-0.9	2		7.8-7.9	22		14.9-15.0		
	0.9-1.0	3	1.7	7.9-8.0	26	17.4	15.0-15.1		
	1.0-1.1	4		8.0-8.1	17		15.1-15.2		
	1.1-1.2	4		8.1-8.2	17		15.2-15.3		
	1.2-1.3	4		8.2-8.3	18		15.3-15.4		
	1.3-1.4	3		8.3-8.4	27		15.4-15.5		
	1.4-1.5	3		8.4-8.5	31		15.5-15.6		
	1.5-1.6	4		8.5-8.6	35		15.6-15.7		
	1.6-1.7	3		8.6-8.7	37		15.7-15.8		
	1.7-1.8	4		8.7-8.8	39		15.8-15.9		
	1.8-1.9	4		8.8-8.9	42		15.9-16.0		
	1.9-2.0	4	3.7	8.9-9.0	50	31.3	16.0-16.1		
	2.0-2.1	8		9.0-9.1		Refusal	16.1-16.2		
	2.1-2.2	8		9.1-9.2			16.2-16.3		
	2.2-2.3	17		9.2-9.3			16.3-16.4		
	2.3-2.4	11		9.3-9.4			16.4-16.5		
	2.4-2.5	6		9.4-9.5			16.5-16.6		
	2.5-2.6	8		9.5-9.6			16.6-16.7		
	2.6-2.7	8		9.6-9.7			16.7-16.8		
	2.7-2.8	6		9.7-9.8			16.8-16.9		
	2.8-2.9	7		9.8-9.9			16.9-17.0		
	2.9-3.0	6	8.5	9.9-10.0			17.0-17.1		
	3.0-3.1	6		10.0-10.1			17.1-17.2		
	3.1-3.2	5		10.1-10.2			17.2-17.3		
	3.2-3.3	4		10.2-10.3			17.3-17.4		
	3.3-3.4	3		10.3-10.4			17.4-17.5		
	3.4-3.5	4		10.4-10.5			17.5-17.6		
	3.5-3.6	4		10.5-10.6			17.6-17.7		
	3.6-3.7	3		10.6-10.7			17.7-17.8		
	3.7-3.8	3		10.7-10.8			17.8-17.9		
	3.8-3.9	4		10.8-10.9			17.9-18.0		
	3.9-4.0	3	3.9	10.9-11.0			18.0-18.1		
	4.0-4.1	3		11.0-11.1			18.1-18.2		
	4.1-4.2	2		11.1-11.2			18.2-18.3		
	4.2-4.3	2		11.2-11.3			18.3-18.4		
	4.3-4.4	4		11.3-11.4			18.4-18.5		
	4.4-4.5	4		11.4-11.5			18.5-18.6		
	4.5-4.6	4		11.5-11.6			18.6-18.7		
	4.6-4.7	5		11.6-11.7			18.7-18.8		
	4.7-4.8	6		11.7-11.8			18.8-18.9		
	4.8-4.9	7		11.8-11.9			18.9-19.0		
	4.9-5.0	7	4.4	11.9-12.0			19.0-19.1		
	5.0-5.1	11		12.0-12.1			19.1-19.2		
	5.1-5.2	10		12.1-12.2			19.2-19.3		
	5.2-5.3	7		12.2-12.3			19.3-19.4		
	5.3-5.4	5		12.3-12.4			19.4-19.5		
	5.4-5.5	5		12.4-12.5			19.5-19.6		
	5.5-5.6	5		12.5-12.6			19.6-19.7		
	5.6-5.7	4		12.6-12.7			19.7-19.8		
	5.7-5.8	5		12.7-12.8			19.8-19.9		
	5.8-5.9	5		12.8-12.9			19.9-20.0		
	5.9-6.0	5	6.2	12.9-13.0			20.0-20.1		
	6.0-6.1	5		13.0-13.1			20.1-20.2		
	6.1-6.2	5		13.1-13.2			20.2-20.3		
	6.2-6.3	4		13.2-13.3			20.3-20.4		
	6.3-6.4	4		13.3-13.4			20.4-20.5		
	6.4-6.5	6		13.4-13.5			20.5-20.6		
	6.5-6.6	6		13.5-13.6			20.6-20.7		
	6.6-6.7	7		13.6-13.7			20.7-20.8		
	6.7-6.8	7		13.7-13.8			20.8-20.9		
	6.8-6.9	8		13.8-13.9			20.0-21.0		
	6.9-7.0	9	6.1	13.9-14.0			21.0-21.1		



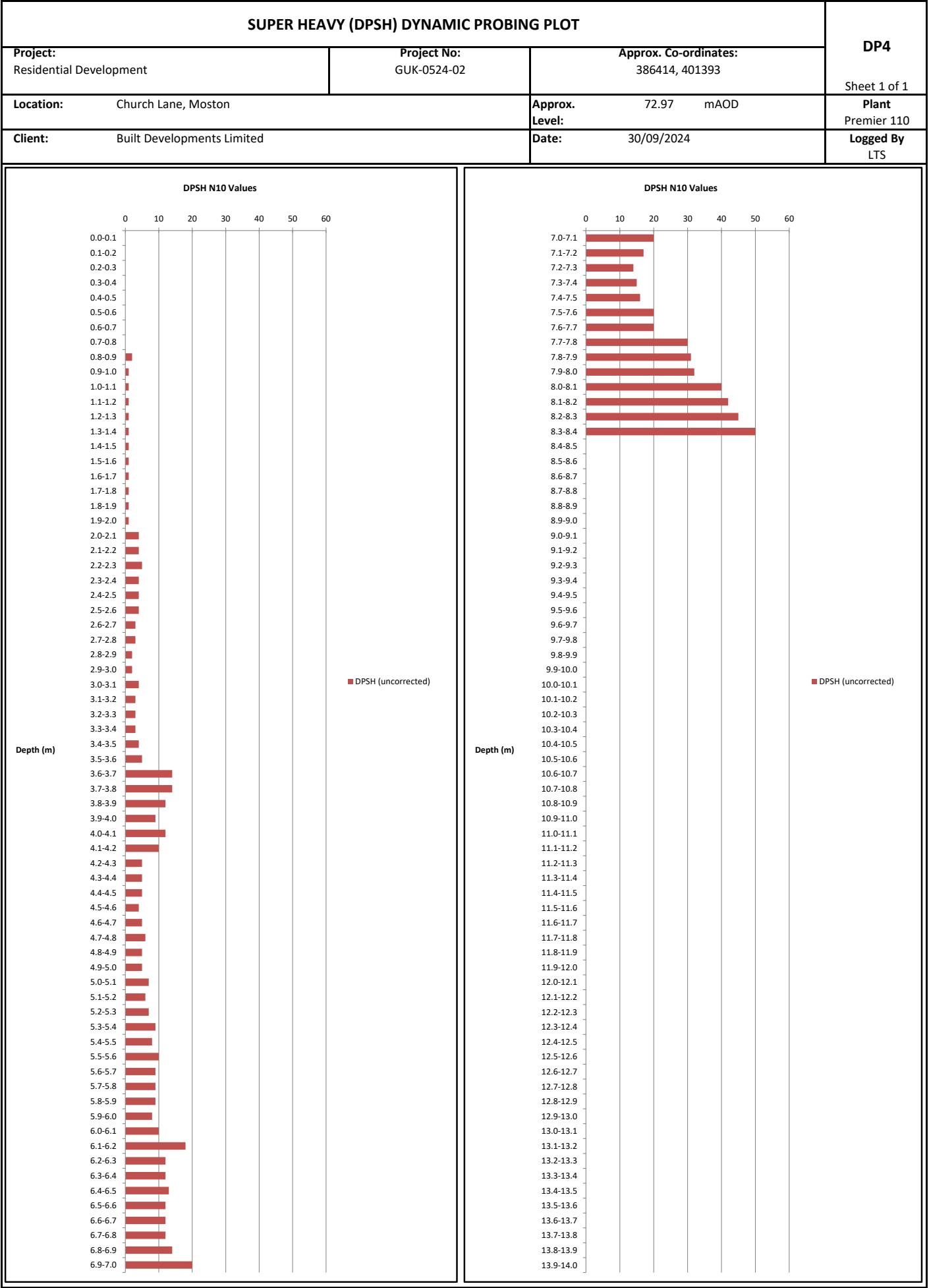
GROUNDSMITHS GEOTECHNICAL ENGINEERS											PERCUSSIVE SAMPLER BOREHOLE RECORD					BH3	
Project: Residential Development				Project No: GUK-0524-02						Approx. Coordinates: 386376, 401417			Sheet 1 of 1				
Location: Church Lane, Moston									Approx. Level: 72.49 mAOD			Plant 110					
Client: Built Developments Limited									Date: 04/10/2024			Logged By AS					
Well	Water (m bgl)	Samples & Field Testing			Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description						
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)									
		0.5	0.5	ES1	1/2, 2,2,2,3 (9)	19.1	34	15	19	0.0-1.0	72.49	MADE GROUND: Vegetation over brown clay with clinker, sand, mixed gravel, and fragments of brick and concrete (RECONSTITUTED GROUND).					
		1.0	1.0							1.0-2.0	71.49	Firm becoming stiff orange-brown mottled grey very sandy CLAY. Medium to high undrained shear strength. Low plasticity (DIAMICTON).					
		1.5	1.5	DS1						2.0-3.5	70.49	Stiff becoming very stiff brown mottled grey very sandy CLAY. High undrained shear strength. Low plasticity (DIAMICTON).					
		2.0	2.0	ES2	2/3, 3,3,5,6 (17)					3.5-5.0	68.99	Stiff and very stiff grey very sandy CLAY. High undrained shear strength. Low plasticity. Becoming increasingly stiff with depth (DIAMICTON).					
		2.5			...								poor recovery at 2.6-3.0m bgl.				
		3.0	3.0	DS2	2/4, 4,5,7,7 (23)												
		3.5			1/2, 2,3,4,7 (16)					5.0	5.0	2/3, 3,5,7,7 (22)					
		4.0	4.0	ES3													
		4.5	4.0	DS3													
		5.0	5.0		Borehole complete at 5.0m bgl												
		5.5															
		6.0															
		6.5															
7.0																	
Boring Progress and Water Observations											General Remarks						
	Date 04/10/2024	Water Depth none	Casing			Chiselling					ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified						
			Depth	Dia. mm		From	To	Hours									
			-	-													

SUPER HEAVY (DPSH) DYNAMIC PROBING RECORD									DP3
Project: Residential Development				Project No: GUK-0524-02		Approx. Co-ordinates: 386374, 401419			
Location: Church Lane, Moston						Approx. Level: 72.49 mAOD			
Client: Built Developments Limited						Date: 30/09/2024			
						Sheet 1 of 1			Plant Premier 110
						Logged By			
	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)
	0.0-0.1	1		7.0-7.1	30		14.1-14.2		
	0.1-0.2	1		7.1-7.2	31		14.2-14.3		
	0.2-0.3	6		7.2-7.3	32		14.3-14.4		
	0.3-0.4	6		7.3-7.4	32		14.4-14.5		
	0.4-0.5	14		7.4-7.5	37		14.5-14.6		
	0.5-0.6	12		7.5-7.6	40		14.6-14.7		
	0.6-0.7	18		7.6-7.7	43		14.7-14.8		
	0.7-0.8	10		7.7-7.8	50	36.9	14.8-14.9		
	0.8-0.9	4		7.8-7.9		Refusal	14.9-15.0		
	0.9-1.0	2	7.4	7.9-8.0			15.0-15.1		
	1.0-1.1	1		8.0-8.1			15.1-15.2		
	1.1-1.2	1		8.1-8.2			15.2-15.3		
	1.2-1.3	2		8.2-8.3			15.3-15.4		
	1.3-1.4	2		8.3-8.4			15.4-15.5		
	1.4-1.5	3		8.4-8.5			15.5-15.6		
	1.5-1.6	3		8.5-8.6			15.6-15.7		
	1.6-1.7	3		8.6-8.7			15.7-15.8		
	1.7-1.8	3		8.7-8.8			15.8-15.9		
	1.8-1.9	2		8.8-8.9			15.9-16.0		
	1.9-2.0	2	2.2	8.9-9.0			16.0-16.1		
	2.0-2.1	5		9.0-9.1			16.1-16.2		
	2.1-2.2	4		9.1-9.2			16.2-16.3		
	2.2-2.3	3		9.2-9.3			16.3-16.4		
	2.3-2.4	4		9.3-9.4			16.4-16.5		
	2.4-2.5	5		9.4-9.5			16.5-16.6		
	2.5-2.6	5		9.5-9.6			16.6-16.7		
	2.6-2.7	6		9.6-9.7			16.7-16.8		
	2.7-2.8	6		9.7-9.8			16.8-16.9		
	2.8-2.9	6		9.8-9.9			16.9-17.0		
	2.9-3.0	4	4.8	9.9-10.0			17.0-17.1		
	3.0-3.1	3		10.0-10.1			17.1-17.2		
	3.1-3.2	6		10.1-10.2			17.2-17.3		
	3.2-3.3	4		10.2-10.3			17.3-17.4		
	3.3-3.4	5		10.3-10.4			17.4-17.5		
	3.4-3.5	7		10.4-10.5			17.5-17.6		
	3.5-3.6	6		10.5-10.6			17.6-17.7		
	3.6-3.7	7		10.6-10.7			17.7-17.8		
	3.7-3.8	6		10.7-10.8			17.8-17.9		
	3.8-3.9	7		10.8-10.9			17.9-18.0		
	3.9-4.0	8	5.9	10.9-11.0			18.0-18.1		
	4.0-4.1	7		11.0-11.1			18.1-18.2		
	4.1-4.2	6		11.1-11.2			18.2-18.3		
	4.2-4.3	6		11.2-11.3			18.3-18.4		
	4.3-4.4	7		11.3-11.4			18.4-18.5		
	4.4-4.5	7		11.4-11.5			18.5-18.6		
	4.5-4.6	6		11.5-11.6			18.6-18.7		
	4.6-4.7	7		11.6-11.7			18.7-18.8		
	4.7-4.8	6		11.7-11.8			18.8-18.9		
	4.8-4.9	7		11.8-11.9			18.9-19.0		
	4.9-5.0	7	6.6	11.9-12.0			19.0-19.1		
5.0-5.1	7		12.0-12.1			19.1-19.2			
5.1-5.2	7		12.1-12.2			19.2-19.3			
5.2-5.3	7		12.2-12.3			19.3-19.4			
5.3-5.4	7		12.3-12.4			19.4-19.5			
5.4-5.5	8		12.4-12.5			19.5-19.6			
5.5-5.6	9		12.5-12.6			19.6-19.7			
5.6-5.7	12		12.6-12.7			19.7-19.8			
5.7-5.8	15		12.7-12.8			19.8-19.9			
5.8-5.9	16		12.8-12.9			19.9-20.0			
5.9-6.0	14	10.2	12.9-13.0			20.0-20.1			
6.0-6.1	12		13.0-13.1			20.1-20.2			
6.1-6.2	16		13.1-13.2			20.2-20.3			
6.2-6.3	16		13.2-13.3			20.3-20.4			
6.3-6.4	14		13.3-13.4			20.4-20.5			
6.4-6.5	15		13.4-13.5			20.5-20.6			
6.5-6.6	19		13.5-13.6			20.6-20.7			
6.6-6.7	19		13.6-13.7			20.7-20.8			
6.7-6.8	21		13.7-13.8			20.8-20.9			
6.8-6.9	21		13.8-13.9			20.0-21.0			
6.9-7.0	20	17.3	13.9-14.0			21.0-21.1			

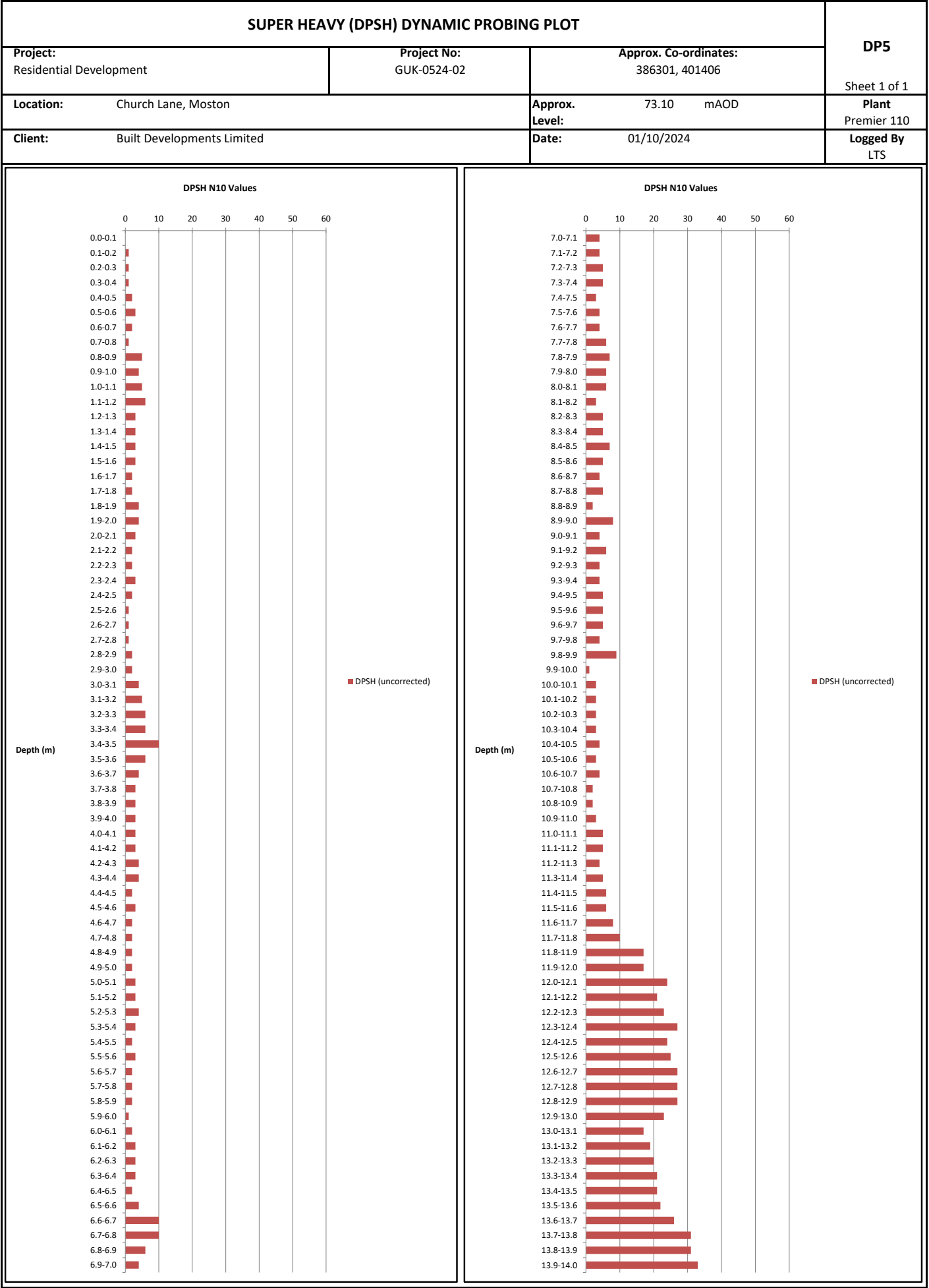


GROUNDSMITHS GEOTECHNICAL ENGINEERS											PERCUSSIVE SAMPLER BOREHOLE RECORD											BH4 Sheet 1 of 1	
Project: Residential Development					Project No: GUK-0524-02					Approx. Coordinates: 386414, 401397													
Location: Church Lane, Moston											Approx. Level: 72.97 mAOD					Plant 110							
Client: Built Developments Limited											Date: 04/10/2024					Logged By AS							
Well	Water (m bgl)	Samples & Field Testing			Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description												
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)															
		0.5	0.5	ES1	6/5, 3,3,1,2 (9)					0.0-1.1	72.97	MADE GROUND: Loose dark brown clinker, sand and mixed gravel over brown clay with fragments of brick, concrete and tarmac (RECONSTITUTED GROUND).											
		1.0	1.0								1.1-2.8	71.87	Stiff becoming very stiff orange-brown mottled grey sandy slightly gravelly CLAY. Gravel is subangular sandstone. Medium to high undrained shear strength. Low plasticity (DIAMICTON).										
		1.5	1.5	ES2																			
		2.0	2.0	DS1	3/3, 3,4,5,5 (17)	20.4	40	19	21														
		2.5																					
		3.0	3.0		6/6, 6,6,7,9 (28)					2.8-3.1	70.17	Brown-grey slightly clayey SILT (DIAMICTON).											
		3.5	3.5	DS2		15.6	36	19	17	3.1-6.0	69.87	Very stiff brown mottled red-grey sandy slightly gravelly CLAY. Gravel is subangular quartz and sandstone. High undrained shear strength. Low plasticity (DIAMICTON).											
		4.0	4.0		4/4, 5,5,6,7 (23)																		
		4.5																					
		5.0	5.0		2/3, 4,4,5,7 (20)																		
		5.5																					
		6.0	6.0		9/11, 12,12,13,13 (50)																		
		6.5										Borehole complete at 6.0m bgl											
		7.0																					
		Boring Progress and Water Observations											General Remarks										
	Date 04/10/2024	Water Depth none	Casing		Seepage.	Chiselling					ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified												
			Depth	Dia. mm		From	To	Hours															
			-	-																			

SUPER HEAVY (DPSH) DYNAMIC PROBING RECORD									DP4
Project: Residential Development			Project No: GUK-0524-02			Approx. Co-ordinates: 386414, 401393			
Location: Church Lane, Moston						Approx. Level: 72.97 mAOD			
Client: Built Developments Limited						Date: 30/09/2024			
									Sheet 1 of 1
									Plant Premier 110
									Logged By LTS
	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)
	0.0-0.1	0		7.0-7.1	20		14.1-14.2		
	0.1-0.2	0		7.1-7.2	17		14.2-14.3		
	0.2-0.3	0		7.2-7.3	14		14.3-14.4		
	0.3-0.4	0		7.3-7.4	15		14.4-14.5		
	0.4-0.5	0		7.4-7.5	16		14.5-14.6		
	0.5-0.6	0		7.5-7.6	20		14.6-14.7		
	0.6-0.7	0		7.6-7.7	20		14.7-14.8		
	0.7-0.8	0		7.7-7.8	30		14.8-14.9		
	0.8-0.9	2		7.8-7.9	31		14.9-15.0		
	0.9-1.0	1	0.3	7.9-8.0	32	21.5	15.0-15.1		
	1.0-1.1	1		8.0-8.1	40		15.1-15.2		
	1.1-1.2	1		8.1-8.2	42		15.2-15.3		
	1.2-1.3	1		8.2-8.3	45		15.3-15.4		
	1.3-1.4	1		8.3-8.4	50	Refusal	15.4-15.5		
	1.4-1.5	1		8.4-8.5			15.5-15.6		
	1.5-1.6	1		8.5-8.6			15.6-15.7		
	1.6-1.7	1		8.6-8.7			15.7-15.8		
	1.7-1.8	1		8.7-8.8			15.8-15.9		
	1.8-1.9	1		8.8-8.9			15.9-16.0		
	1.9-2.0	1	1	8.9-9.0			16.0-16.1		
	2.0-2.1	4		9.0-9.1			16.1-16.2		
	2.1-2.2	4		9.1-9.2			16.2-16.3		
	2.2-2.3	5		9.2-9.3			16.3-16.4		
	2.3-2.4	4		9.3-9.4			16.4-16.5		
	2.4-2.5	4		9.4-9.5			16.5-16.6		
	2.5-2.6	4		9.5-9.6			16.6-16.7		
	2.6-2.7	3		9.6-9.7			16.7-16.8		
	2.7-2.8	3		9.7-9.8			16.8-16.9		
	2.8-2.9	2		9.8-9.9			16.9-17.0		
	2.9-3.0	2	3.5	9.9-10.0			17.0-17.1		
	3.0-3.1	4		10.0-10.1			17.1-17.2		
	3.1-3.2	3		10.1-10.2			17.2-17.3		
	3.2-3.3	3		10.2-10.3			17.3-17.4		
	3.3-3.4	3		10.3-10.4			17.4-17.5		
	3.4-3.5	4		10.4-10.5			17.5-17.6		
	3.5-3.6	5		10.5-10.6			17.6-17.7		
	3.6-3.7	14		10.6-10.7			17.7-17.8		
	3.7-3.8	14		10.7-10.8			17.8-17.9		
	3.8-3.9	12		10.8-10.9			17.9-18.0		
	3.9-4.0	9	7.1	10.9-11.0			18.0-18.1		
	4.0-4.1	12		11.0-11.1			18.1-18.2		
	4.1-4.2	10		11.1-11.2			18.2-18.3		
	4.2-4.3	5		11.2-11.3			18.3-18.4		
	4.3-4.4	5		11.3-11.4			18.4-18.5		
	4.4-4.5	5		11.4-11.5			18.5-18.6		
	4.5-4.6	4		11.5-11.6			18.6-18.7		
	4.6-4.7	5		11.6-11.7			18.7-18.8		
	4.7-4.8	6		11.7-11.8			18.8-18.9		
	4.8-4.9	5		11.8-11.9			18.9-19.0		
	4.9-5.0	5	6.2	11.9-12.0			19.0-19.1		
5.0-5.1	7		12.0-12.1			19.1-19.2			
5.1-5.2	6		12.1-12.2			19.2-19.3			
5.2-5.3	7		12.2-12.3			19.3-19.4			
5.3-5.4	9		12.3-12.4			19.4-19.5			
5.4-5.5	8		12.4-12.5			19.5-19.6			
5.5-5.6	10		12.5-12.6			19.6-19.7			
5.6-5.7	9		12.6-12.7			19.7-19.8			
5.7-5.8	9		12.7-12.8			19.8-19.9			
5.8-5.9	9		12.8-12.9			19.9-20.0			
5.9-6.0	8	8.2	12.9-13.0			20.0-20.1			
6.0-6.1	10		13.0-13.1			20.1-20.2			
6.1-6.2	18		13.1-13.2			20.2-20.3			
6.2-6.3	12		13.2-13.3			20.3-20.4			
6.3-6.4	12		13.3-13.4			20.4-20.5			
6.4-6.5	13		13.4-13.5			20.5-20.6			
6.5-6.6	12		13.5-13.6			20.6-20.7			
6.6-6.7	12		13.6-13.7			20.7-20.8			
6.7-6.8	12		13.7-13.8			20.8-20.9			
6.8-6.9	14		13.8-13.9			20.0-21.0			
6.9-7.0	20	13.5	13.9-14.0			21.0-21.1			

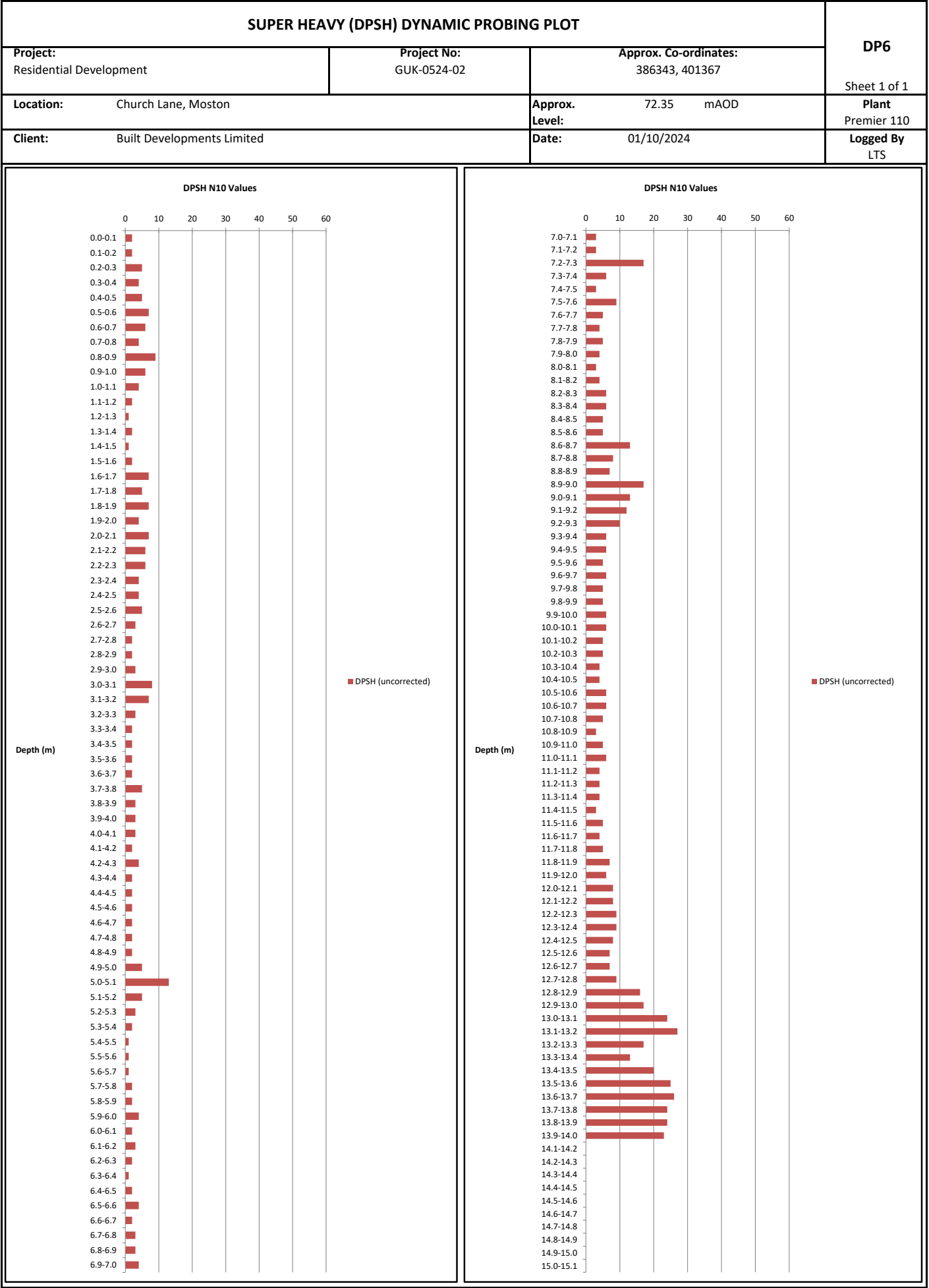


SUPER HEAVY (DPSH) DYNAMIC PROBING RECORD									DP5
Project: Residential Development			Project No: GUK-0524-02			Approx. Co-ordinates: 386301, 401406			
Location: Church Lane, Moston						Approx. Level: 73.10 mAOD			
Client: Built Developments Limited						Date: 01/10/2024			
						Sheet 1 of 1			Plant Premier 110
						Logged By			
	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)
	0.0-0.1	0		7.0-7.1	4		14.1-14.2		
	0.1-0.2	1		7.1-7.2	4		14.2-14.3		
	0.2-0.3	1		7.2-7.3	5		14.3-14.4		
	0.3-0.4	1		7.3-7.4	5		14.4-14.5		
	0.4-0.5	2		7.4-7.5	3		14.5-14.6		
	0.5-0.6	3		7.5-7.6	4		14.6-14.7		
	0.6-0.7	2		7.6-7.7	4		14.7-14.8		
	0.7-0.8	1		7.7-7.8	6		14.8-14.9		
	0.8-0.9	5		7.8-7.9	7		14.9-15.0		
	0.9-1.0	4	2.0	7.9-8.0	6	4.8	15.0-15.1		
	1.0-1.1	5		8.0-8.1	6		15.1-15.2		
	1.1-1.2	6		8.1-8.2	3		15.2-15.3		
	1.2-1.3	3		8.2-8.3	5		15.3-15.4		
	1.3-1.4	3		8.3-8.4	5		15.4-15.5		
	1.4-1.5	3		8.4-8.5	7		15.5-15.6		
	1.5-1.6	3		8.5-8.6	5		15.6-15.7		
	1.6-1.7	2		8.6-8.7	4		15.7-15.8		
	1.7-1.8	2		8.7-8.8	5		15.8-15.9		
	1.8-1.9	4		8.8-8.9	2		15.9-16.0		
	1.9-2.0	4	3.5	8.9-9.0	8	5.0	16.0-16.1		
	2.0-2.1	3		9.0-9.1	4		16.1-16.2		
	2.1-2.2	2		9.1-9.2	6		16.2-16.3		
	2.2-2.3	2		9.2-9.3	4		16.3-16.4		
	2.3-2.4	3		9.3-9.4	4		16.4-16.5		
	2.4-2.5	2		9.4-9.5	5		16.5-16.6		
	2.5-2.6	1		9.5-9.6	5		16.6-16.7		
	2.6-2.7	1		9.6-9.7	5		16.7-16.8		
	2.7-2.8	1		9.7-9.8	4		16.8-16.9		
	2.8-2.9	2		9.8-9.9	9		16.9-17.0		
	2.9-3.0	2	1.9	9.9-10.0	1	4.7	17.0-17.1		
	3.0-3.1	4		10.0-10.1	3		17.1-17.2		
	3.1-3.2	5		10.1-10.2	3		17.2-17.3		
	3.2-3.3	6		10.2-10.3	3		17.3-17.4		
	3.3-3.4	6		10.3-10.4	3		17.4-17.5		
	3.4-3.5	10		10.4-10.5	4		17.5-17.6		
	3.5-3.6	6		10.5-10.6	3		17.6-17.7		
	3.6-3.7	4		10.6-10.7	4		17.7-17.8		
	3.7-3.8	3		10.7-10.8	2		17.8-17.9		
	3.8-3.9	3		10.8-10.9	2		17.9-18.0		
	3.9-4.0	3	5.0	10.9-11.0	3	3.0	18.0-18.1		
	4.0-4.1	3		11.0-11.1	5		18.1-18.2		
	4.1-4.2	3		11.1-11.2	5		18.2-18.3		
	4.2-4.3	4		11.2-11.3	4		18.3-18.4		
	4.3-4.4	4		11.3-11.4	5		18.4-18.5		
	4.4-4.5	2		11.4-11.5	6		18.5-18.6		
	4.5-4.6	3		11.5-11.6	6		18.6-18.7		
	4.6-4.7	2		11.6-11.7	8		18.7-18.8		
	4.7-4.8	2		11.7-11.8	10		18.8-18.9		
	4.8-4.9	2		11.8-11.9	17		18.9-19.0		
	4.9-5.0	2	2.7	11.9-12.0	17	8.3	19.0-19.1		
	5.0-5.1	3		12.0-12.1	24		19.1-19.2		
	5.1-5.2	3		12.1-12.2	21		19.2-19.3		
	5.2-5.3	4		12.2-12.3	23		19.3-19.4		
	5.3-5.4	3		12.3-12.4	27		19.4-19.5		
	5.4-5.5	2		12.4-12.5	24		19.5-19.6		
	5.5-5.6	3		12.5-12.6	25		19.6-19.7		
	5.6-5.7	2		12.6-12.7	27		19.7-19.8		
	5.7-5.8	2		12.7-12.8	27		19.8-19.9		
	5.8-5.9	2		12.8-12.9	27		19.9-20.0		
	5.9-6.0	1	2.5	12.9-13.0	23	24.8	20.0-20.1		
	6.0-6.1	2		13.0-13.1	17		20.1-20.2		
	6.1-6.2	3		13.1-13.2	19		20.2-20.3		
	6.2-6.3	3		13.2-13.3	20		20.3-20.4		
	6.3-6.4	3		13.3-13.4	21		20.4-20.5		
	6.4-6.5	2		13.4-13.5	21		20.5-20.6		
	6.5-6.6	4		13.5-13.6	22		20.6-20.7		
	6.6-6.7	10		13.6-13.7	26		20.7-20.8		
	6.7-6.8	10		13.7-13.8	31		20.8-20.9		
	6.8-6.9	6		13.8-13.9	31		20.9-21.0		
	6.9-7.0	4	4.7	13.9-14.0	33	24.1	21.0-21.1		



GROUNDSMITHS GEOTECHNICAL ENGINEERS PERCUSSIVE SAMPLER BOREHOLE RECORD											BH6 Sheet 1 of 1												
Project: Residential Development			Project No: GUK-0524-02				Approx. Coordinates: 386341, 401368																
Location: Church Lane, Moston							Approx. Level: 72.35 mAOD				Plant 110												
Client: Built Developments Limited							Date: 04/10/2024				Logged By AS												
Well	Water (m bgl)	Samples & Field Testing				Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)												
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)															
		0.5	0.5	ES1	3/3, 5,3,2,3 (13)					0.0-0.3	72.35	MADE GROUND: Sand (RECONSTITUTED GROUND).											
										0.3-1.5	72.05	MADE GROUND: Brown clay with brick rubble and sand (RECONSTITUTED GROUND).											
		1.0	1.0		2/2, 2,3,2,3 (10)																		
		1.5	1.5	ES2													1.5-3.0	70.85	MADE GROUND: Black very sandy clay with gravel, brick, railway sleeper and plastic (RECONSTITUTED GROUND).				
		2.0	2.0																				
		2.5	2.5	ES3																			
		3.0	3.0		2/3, 10,8,6,7 (31)																		
		3.5																					
		4.0																					
		4.5																					
		5.0																					
		5.5																					
		6.0																					
		6.5																					
7.0																							
Boring Progress and Water Observations																	General Remarks						
Date 04/10/2024	Water Depth none	Casing		Position moved three times at location.	Chiselling													ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified					
		Depth	Dia. mm		From	To	Hours																
		-	-																				

SUPER HEAVY (DPSH) DYNAMIC PROBING RECORD									DP6
Project: Residential Development			Project No: GUK-0524-02			Approx. Co-ordinates: 386343, 401367			
Location: Church Lane, Moston						Approx. Level: 72.35 mAOD			
Client: Built Developments Limited						Date: 01/10/2024			
									Sheet 1 of 1
									Plant Premier 110
									Logged By
	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)	Depth m bgl	DPSH (uncorrected) /100mm (N10)	Average with depth (m)
	0.0-0.1	2		7.0-7.1	3		14.1-14.2		
	0.1-0.2	2		7.1-7.2	3		14.2-14.3		
	0.2-0.3	5		7.2-7.3	17		14.3-14.4		
	0.3-0.4	4		7.3-7.4	6		14.4-14.5		
	0.4-0.5	5		7.4-7.5	3		14.5-14.6		
	0.5-0.6	7		7.5-7.6	9		14.6-14.7		
	0.6-0.7	6		7.6-7.7	5		14.7-14.8		
	0.7-0.8	4		7.7-7.8	4		14.8-14.9		
	0.8-0.9	9		7.8-7.9	5		14.9-15.0		
	0.9-1.0	6	5.0	7.9-8.0	4	5.9	15.0-15.1		
	1.0-1.1	4		8.0-8.1	3		15.1-15.2		
	1.1-1.2	2		8.1-8.2	4		15.2-15.3		
	1.2-1.3	1		8.2-8.3	6		15.3-15.4		
	1.3-1.4	2		8.3-8.4	6		15.4-15.5		
	1.4-1.5	1		8.4-8.5	5		15.5-15.6		
	1.5-1.6	2		8.5-8.6	5		15.6-15.7		
	1.6-1.7	7		8.6-8.7	13		15.7-15.8		
	1.7-1.8	5		8.7-8.8	8		15.8-15.9		
	1.8-1.9	7		8.8-8.9	7		15.9-16.0		
	1.9-2.0	4	3.5	8.9-9.0	17	7.4	16.0-16.1		
	2.0-2.1	7		9.0-9.1	13		16.1-16.2		
	2.1-2.2	6		9.1-9.2	12		16.2-16.3		
	2.2-2.3	6		9.2-9.3	10		16.3-16.4		
	2.3-2.4	4		9.3-9.4	6		16.4-16.5		
	2.4-2.5	4		9.4-9.5	6		16.5-16.6		
	2.5-2.6	5		9.5-9.6	5		16.6-16.7		
	2.6-2.7	3		9.6-9.7	6		16.7-16.8		
	2.7-2.8	2		9.7-9.8	5		16.8-16.9		
	2.8-2.9	2		9.8-9.9	5		16.9-17.0		
	2.9-3.0	3	4.2	9.9-10.0	6	7.4	17.0-17.1		
	3.0-3.1	8		10.0-10.1	6		17.1-17.2		
	3.1-3.2	7		10.1-10.2	5		17.2-17.3		
	3.2-3.3	3		10.2-10.3	5		17.3-17.4		
	3.3-3.4	2		10.3-10.4	4		17.4-17.5		
	3.4-3.5	2		10.4-10.5	4		17.5-17.6		
	3.5-3.6	2		10.5-10.6	6		17.6-17.7		
	3.6-3.7	2		10.6-10.7	6		17.7-17.8		
	3.7-3.8	5		10.7-10.8	5		17.8-17.9		
	3.8-3.9	3		10.8-10.9	3		17.9-18.0		
	3.9-4.0	3	3.7	10.9-11.0	5	4.9	18.0-18.1		
	4.0-4.1	3		11.0-11.1	6		18.1-18.2		
	4.1-4.2	2		11.1-11.2	4		18.2-18.3		
	4.2-4.3	4		11.2-11.3	4		18.3-18.4		
	4.3-4.4	2		11.3-11.4	4		18.4-18.5		
	4.4-4.5	2		11.4-11.5	3		18.5-18.6		
	4.5-4.6	2		11.5-11.6	5		18.6-18.7		
	4.6-4.7	2		11.6-11.7	4		18.7-18.8		
	4.7-4.8	2		11.7-11.8	5		18.8-18.9		
	4.8-4.9	2		11.8-11.9	7		18.9-19.0		
	4.9-5.0	5	2.6	11.9-12.0	6	4.8	19.0-19.1		
	5.0-5.1	13		12.0-12.1	8		19.1-19.2		
	5.1-5.2	5		12.1-12.2	8		19.2-19.3		
	5.2-5.3	3		12.2-12.3	9		19.3-19.4		
	5.3-5.4	2		12.3-12.4	9		19.4-19.5		
	5.4-5.5	1		12.4-12.5	8		19.5-19.6		
	5.5-5.6	1		12.5-12.6	7		19.6-19.7		
	5.6-5.7	1		12.6-12.7	7		19.7-19.8		
	5.7-5.8	2		12.7-12.8	9		19.8-19.9		
	5.8-5.9	2		12.8-12.9	16		19.9-20.0		
	5.9-6.0	4	3.4	12.9-13.0	17	9.8	20.0-20.1		
	6.0-6.1	2		13.0-13.1	24		20.1-20.2		
	6.1-6.2	3		13.1-13.2	27		20.2-20.3		
	6.2-6.3	2		13.2-13.3	17		20.3-20.4		
	6.3-6.4	1		13.3-13.4	13		20.4-20.5		
	6.4-6.5	2		13.4-13.5	20		20.5-20.6		
	6.5-6.6	4		13.5-13.6	25		20.6-20.7		
	6.6-6.7	2		13.6-13.7	26		20.7-20.8		
	6.7-6.8	3		13.7-13.8	24		20.8-20.9		
	6.8-6.9	3		13.8-13.9	24		20.9-21.0		
	6.9-7.0	4	2.6	13.9-14.0	23	22.3	21.0-21.1		



GROUNDSMITHS GEOTECHNICAL ENGINEERS PERCUSSIVE SAMPLER BOREHOLE RECORD											BH7 Sheet 1 of 1								
Project: Residential Development				Project No: GUK-0524-02				Approx. Coordinates: 386394, 401376											
Location: Church Lane, Moston									Approx. Level: 72.60 mAOD		Plant 110								
Client: Built Developments Limited									Date: 04/10/2024		Logged By AS								
Well	Water (m bgl)	Samples & Field Testing			Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description								
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)											
		0.5	0.5	ES1	3/2, 3,3,5,2 (13)						72.60	MADE GROUND: Brown clay with much brick and concrete fragments (RECONSTITUTED GROUND).							
		1.0	1.0	ES2															
		1.5	1.5	ES3															
		2.0	2.0	25/10mm (50)															... obstruction at 2.0m bgl.
		2.5																	
		3.0																	
		3.5																	
		4.0																	
		4.5																	
		5.0																	
		5.5																	
		6.0																	
		6.5																	
7.0		Borehole abandoned at 2.0m bgl																	
Boring Progress and Water Observations											General Remarks								
	Date	Water Depth	Casing		Position moved three times at location.	Chiselling			ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified										
	04/10/2024	none	Depth	Dia. mm		From	To	Hours											
			-	-															

GROUNDSMITHS GEOTECHNICAL ENGINEERS PERCUSSIVE SAMPLER BOREHOLE RECORD											BH8 Sheet 1 of 1		
Project: Residential Development				Project No: GUK-0524-02					Approx. Coordinates: 386377, 401387				
Location: Church Lane, Moston									Approx. Level: 72.57 mAOD		Plant 110		
Client: Built Developments Limited									Date: 04/10/2024		Logged By AS		
Well	Water (m bgl)	Samples & Field Testing			Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description		
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)					
		0.5	1.0	2/3, 2,4,14,30 (50)					0.0-1.0	72.57	MADE GROUND: Brown clay with clinker and much brick and concrete fragments (RECONSTITUTED GROUND).		
Boring Progress and Water Observations											General Remarks		
	Date 04/10/2024	Water Depth none	Casing		Position moved three times at location.	Chiselling			ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified				
			Depth	Dia. mm		From	To	Hours					
			-	-									

Project No: GUK-0524-02

Logged:		LTS	Approx. Coordinates:		386369, 401480		Approx. Level:		72.99		mAOD		Date:		04/10/2024		BH1	
Depth m bgl	Seating Drives		Test Drives				(N)		SPT 'N'									
	75mm	75mm	75mm	75mm	75mm	75mm	75mm	300mm										
	1.00	2	2	2	2	4	4	12										
	2.00	5	5	7	7	8	10	32										
	3.00	4	4	5	5	7	7	24										
	4.00	4	4	5	7	9	11	32										
	5.00	8	8	8	8	9	10	35										
	6.00																	
	7.00																	
	8.00																	
	9.00																	
Logged:		LTS	Approx. Coordinates:		386366, 401440		Approx. Level:		72.69		mAOD		Date:		04/10/2024		BH2	
Depth m bgl	Seating Drives		Test Drives				(N)		SPT 'N'									
	75mm	75mm	75mm	75mm	75mm	75mm	75mm	300mm										
	1.00	2	3	3	5	5	5	18										
	2.00	4	5	5	6	8	10	29										
	3.00	10	11	13	14	15	8	50										
	4.00																	
	5.00																	
	6.00																	
	7.00																	
	8.00																	
	9.00																	
Logged:		LTS	Approx. Coordinates:		386376, 401417		Approx. Level:		72.49		mAOD		Date:		04/10/2024		BH3	
Depth m bgl	Seating Drives		Test Drives				(N)		SPT 'N'									
	75mm	75mm	75mm	75mm	75mm	75mm	75mm	300mm										
	1.00	1	2	2	2	2	3	9										
	2.00	2	3	3	3	5	6	17										
	3.00	2	4	4	5	7	7	23										
	4.00	1	2	2	3	4	7	16										
	5.00	2	3	3	5	7	7	22										
	6.00																	
	7.00																	
	8.00																	
Logged:		LTS	Approx. Coordinates:		386414, 401397		Approx. Level:		72.97		mAOD		Date:		04/10/2024		BH4	
Depth m bgl	Seating Drives		Test Drives				(N)		SPT 'N'									
	75mm	75mm	75mm	75mm	75mm	75mm	75mm	300mm										
	1.00	6	5	3	3	1	2	9										
	2.00	3	3	3	4	5	5	17										
	3.00	6	6	6	6	7	9	28										
	4.00	4	4	5	5	6	7	23										
	5.00	2	3	4	4	5	7	20										
	6.00	9	11	12	12	13	13	50										
	7.00																	
	8.00																	
	9.00																	
Logged:		LTS	Approx. Coordinates:		386301, 401441		Approx. Level:		73.10		mAOD		Date:		04/10/2024		BH5	
Depth m bgl	Seating Drives		Test Drives				(N)		SPT 'N'									
	75mm	75mm	75mm	75mm	75mm	75mm	75mm	300mm										
	1.00	3	3	2	2	2	2	8										
	2.00	4	4	3	2	3	3	11										
	3.00	5	3	3	2	2	3	10										
	4.00																	
	5.00																	
	6.00																	
	7.00																	
	8.00																	
	9.00																	

Project: Residential Development

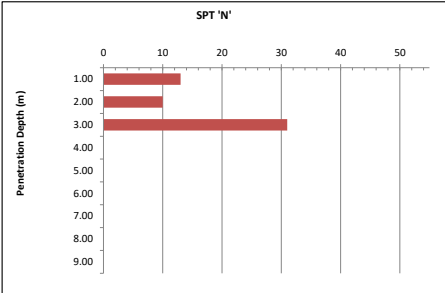
Location: Church Lane, Moston

Client: Built Developments Limited

Project No: GUK-0524-02

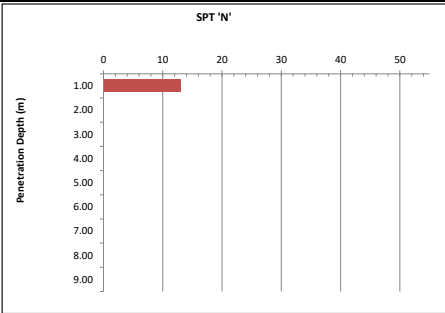
Logged: LTS **Approx. Coordinates:** 386341, 401368 **Approx. Level:** 72.35 mAOD **Date:** 04/10/2024 **BH6**

Depth m bgl	Seating Drives		Test Drives				(N)
	75mm	75mm	75mm	75mm	75mm	75mm	300mm
1.00	3	3	5	3	2	3	13
2.00	2	2	2	3	2	3	10
3.00	2	3	10	8	6	7	31
4.00							
5.00							
6.00							
7.00							
8.00							
9.00							



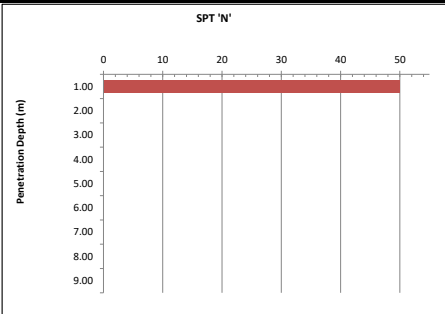
Logged: LTS **Approx. Coordinates:** 386394, 401376 **Approx. Level:** 72.60 mAOD **Date:** 04/10/2024 **BH7**

Depth m bgl	Seating Drives		Test Drives				(N)
	75mm	75mm	75mm	75mm	75mm	75mm	300mm
1.00	3	2	3	3	5	2	13
2.00	25	50	obstruction				
3.00							
4.00							
5.00							
6.00							
7.00							
8.00							
9.00							



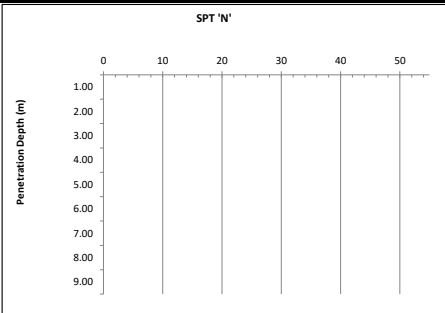
Logged: LTS **Approx. Coordinates:** 386377, 401387 **Approx. Level:** 72.57 mAOD **Date:** 04/10/2024 **BH8**

Depth m bgl	Seating Drives		Test Drives				(N)
	75mm	75mm	75mm	75mm	75mm	75mm	300mm
1.00	2	3	2	4	14	30	50
2.00	obstruction						
3.00							
4.00							
5.00							
6.00							
7.00							
8.00							
9.00							



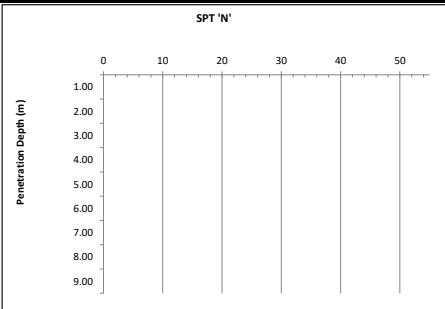
Logged: **Approx. Coordinates:** **Approx. Level:** mAOD **Date:**

Depth m bgl	Seating Drives		Test Drives				(N)
	75mm	75mm	75mm	75mm	75mm	75mm	300mm
1.00							
2.00							
3.00							
4.00							
5.00							
6.00							
7.00							
8.00							
9.00							



Logged: **Approx. Coordinates:** **Approx. Level:** mAOD **Date:**

Depth m bgl	Seating Drives		Test Drives				(N)
	75mm	75mm	75mm	75mm	75mm	75mm	300mm
1.00							
2.00							
3.00							
4.00							
5.00							
6.00							
7.00							
8.00							
9.00							



SUPER HEAVY (DPSH) DYNAMIC PROBING PLOT - ALL DATA

Project:
Residential Development

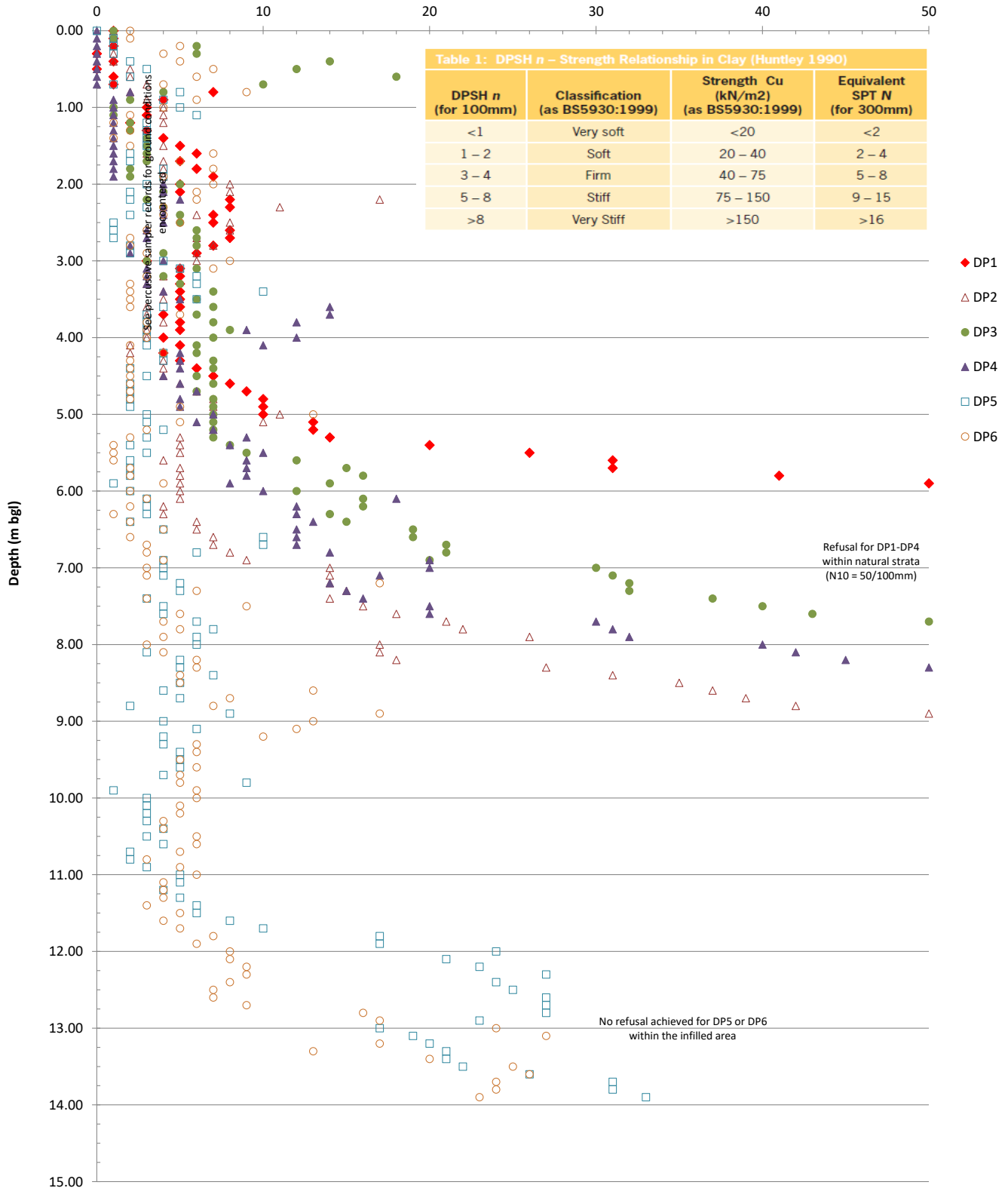
Project No:
GUK-0524-02

Location: Church Lane, Moston

Client: Built Developments Limited

GROUNDSMITHS
GEOTECHNICAL ENGINEERS

Blow Counts (N_{10})



GROUNDSMITHS GEOTECHNICAL ENGINEERS				PERCUSSIVE SAMPLER BOREHOLE RECORD								CP1 Sheet 1 of 2					
Project: Residential Development			Project No: GUK-0524-02						Approx. Coordinates: 386383, 401371								
Location: Church Lane, Moston									Approx. Level: 72.36 mAOD			Plant Dando 2000					
Client: Built Developments Limited									Date: 09/10/2024			Logged By GC					
Well	Water (m bgl)	Samples & Field Testing			Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description						
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)									
		0.0			3/4, 6,44/20mm (50)					0.0-1.5	72.36	MADE GROUND: Black-dark grey clay with ash, gravel, brick, clinker, slag, concrete and plastic (RECONSTITUTED GROUND).					
		0.5															
		1.0	1.0	ES1													
				1.2													
		1.5												1.5-2.1	70.86	MADE GROUND: Boulder - obstruction (assumed cobble sett). Nil recovery (RECONSTITUTED GROUND).	
		2.0	2.0		3/1, 1,2,1,2 (6)												
		2.5												2.1-8.4	70.26	MADE GROUND: Black very sandy clay with gravel and brick (RECONSTITUTED GROUND).	
		3.0	3.0		1/1, 2,2,1,2 (7)												
		3.5															
		4.0	4.0	ES2	1/0, 1,2,1,2 (6)												
		4.5															
		5.0	5.0		2/2, 3,2,3,3 (11)												
		5.5															
		6.0	6.0		2/2, 2,2,3,3 (10)												
		6.5															
7.0																	
Boring Progress and Water Observations												General Remarks					
	Date	Water Depth	Casing							Chiselling			ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified				
			Depth	Dia. mm						From	To	Hours					
			09/10/2024	none						9.0	150	1.5		2.1	2.0		

GROUNDSMITHS GEOTECHNICAL ENGINEERS PERCUSSIVE SAMPLER BOREHOLE RECORD											CP1 Sheet 2 of 2	
Project: Residential Development				Project No: GUK-0524-02					Approx. Coordinates: 386383, 401371			
Location: Church Lane, Moston								Approx. Level: 72.36 mAOD		Plant Dando 2000		
Client: Built Developments Limited								Date: 09/10/2024		Logged By GC		
Well	Water (m bgl)	Samples & Field Testing			Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description	
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)				
		7.5	7.5		5/6, 4,3,3,4 (14)						... contd./ MADE GROUND: Black very sandy clay with gravel and brick (RECONSTITUTED GROUND).	
		8.0										
		8.5										
		9.0	8.9 9.0	ES3 DS1	6/7, 8,8,9,12 (37)	16.6	36	19	17	8.4-11.0	63.96	Stiff becoming very stiff brown sandy slightly gravelly CLAY. Gravel is subangular sandstone. Medium to high undrained shear strength. Low plasticity (DIAMICTON).
		9.5										
		10.0	10.0	DS2								
		10.5	10.5	ES4	8/10, 12,15,20,3/20mm (50)							
		11.0	11.0	DS3								
		11.5										
		12.0										
		12.5										
		13.0										
		13.5										
		14.0										
		Boring Progress and Water Observations										
	Date	Water Depth	Casing			Chiselling					ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified	
	09/10/2024	none	Depth	Dia. mm		From	To	Hours				
			9.0	150								

GROUNDSMITHS GEOTECHNICAL ENGINEERS PERCUSSIVE SAMPLER BOREHOLE RECORD											CP2							
Project: Residential Development				Project No: GUK-0524-02				Approx. Coordinates: 386363, 401359										
Location: Church Lane, Moston								Approx. Level: 72.36 mAOD			Sheet 1 of 4							
Client: Built Developments Limited								Date: 03/10/2024			Plant Dando 2000							
Well	Water (m bgl)	Samples & Field Testing				Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description						
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)										
		0.5	0.5	ES1					0.0-0.3	72.36	MADE GROUND: Sand (RECONSTITUTED GROUND).							
									0.3-1.3	72.06	MADE GROUND: Brick rubble and sand (RECONSTITUTED GROUND).							
		1.0	1.2	2/1, 1,1,2,1 (5)														
				1.5	1.5	ES2						1.3-2.5	71.06	MADE GROUND: Black very sandy clay with gravel and brick. Wooden railway sleep with slight hydrocarbon odour (RECONSTITUTED GROUND).				
		2.0	2.0	1/1, 2,1,2,1 (6)														
		2.5																
				3.0	3.0	ES3									2.5-5.3	69.86	MADE GROUND: Black clay with timber, plastic and fragments of glass (RECONSTITUTED GROUND).	
		3.5			2/5, 3,2,2,3 (10)													
		4.0	4.0	1/1, 1,3,4,3 (11)														
				4.5														
		5.0	5.0	ES4	1/1, 2,1,2,2 (7)													
		5.5																
		6.0	6.0															
6.5			1/1, 1,2,1,2 (6)															
7.0																		
Boring Progress and Water Observations												General Remarks						
	Date	Water Depth	Casing										From	To	Hours	ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified		
			Depth	Dia. mm														
	03/10/2024	none	21.0	150														

GROUNDSMITHS GEOTECHNICAL ENGINEERS											PERCUSSIVE SAMPLER BOREHOLE RECORD											CP2 Sheet 2 of 4	
Project: Residential Development					Project No: GUK-0524-02					Approx. Coordinates: 386363, 401359													
Location: Church Lane, Moston											Approx. Level: 72.36 mAOD					Plant Dando 2000							
Client: Built Developments Limited											Date: 03/10/2024					Logged By GC							
Well	Water (m bgl)	Samples & Field Testing				Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description											
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)															
		7.5	7.5	DS1	3/2, 2,2,2,2 (8)	21.9	34	18	16			... contd./ MADE GROUND: Black very sandy clay with gravel and brick. Low plasticity (RECONSTITUTED GROUND).											
		8.0																					
		8.5																					
		9.0	9.0		1/1, 3,2,3,3 (11)																		
		9.5																					
		10.0																					
		10.5	10.5		4/3, 3,3,3,3 (12)																		
		11.0																					
		11.5	11.5	ES5																			
		12.0	12.0	DS2	5/7, 8,10,10,11 (39)																		
		12.5																					
		13.0																					
		13.5	13.5	DS3	25/75mm, 28,22/60mm (50)																		
14.0																							
Boring Progress and Water Observations												General Remarks											
	Date 03/10/2024	Water Depth none	Casing									ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified											
			Depth	Dia. mm																			
			From	To									Hours										
			21.0	150																			

GROUNDSMITHS GEOTECHNICAL ENGINEERS PERCUSSIVE SAMPLER BOREHOLE RECORD											CP2	
Project: Residential Development			Project No: GUK-0524-02				Approx. Coordinates: 386363, 401359					
Location: Church Lane, Moston							Approx. Level: 72.36 mAOD		Sheet 3 of 4			
Client: Built Developments Limited							Date: 03/10/2024		Plant Dando 2000			
Well	Water (m bgl)	Samples & Field Testing			Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description	
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)				
		14.5	DS4	10/10, 10,15,16,9/35mm (50)	24	27	NP	NP			... contd./	
		15.0									15.0	Very dense brown slightly clayey SAND. Non-plastic (COLLYHURST SANDSTONE FORMATION?).
		15.5									15.0	
		16.0										
		16.5	16.5	6/8, 8,9,9,10 (36)	... dense at 16.5m bgl SPT test.							
		17.0										
		17.5										
		18.0	18.0	DS5		8/10, 12,15,20,3/5mm (50)	17.8-19.0	54.56	Very stiff brown sandy slightly gravelly CLAY. Gravel is subangular sandstone. High undrained shear strength. Intermediate plasticity (COLLYHURST SANDSTONE FORMATION?).			
		18.5		19.0-21.8	53.36	Very dense brown silty SAND (COLLYHURST SANDSTONE FORMATION?).						
		19.0										
		19.5	19.50				6/8, 12,16,22/75mm (50)					
		20.0										
20.5												
21.0												
Boring Progress and Water Observations											General Remarks	
	Date 03/10/2024	Water Depth none	Casing			Chiselling					ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified	
			Depth	Dia. mm		From	To	Hours				
			21.0	150								

GROUNDSMITHS GEOTECHNICAL ENGINEERS PERCUSSIVE SAMPLER BOREHOLE RECORD										CP2				
Project: Residential Development			Project No: GUK-0524-02				Approx. Coordinates: 386363, 401359							
Location: Church Lane, Moston							Approx. Level: 72.36 mAOD			Sheet 4 of 4				
Client: Built Developments Limited							Date: 03/10/2024			Plant Dando 2000				
Well	Water (m bgl)	Samples & Field Testing			Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description			
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)						
		21.5	21.5	20/5/10mm, 20, 30/50mm (50)					21.8-21.9	50.56	...contd./			
											Very dense brown silty SAND (COLLYHURST SANDSTONE FORMATION?).			
											Nil sample recovery. Assumed SANDSTONE (COLLYHURST SANDSTONE FORMATION).			
											Borehole complete at 21.9m bgl			
Boring Progress and Water Observations											General Remarks			
	Date	Water Depth	Casing								Chiselling	ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample		
			Depth	Dia. mm									From	To
	03/10/2024	none	21.0	150							21.8	21.9	1.0	Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified

GROUNDSMITHS GEOTECHNICAL ENGINEERS											PERCUSSIVE SAMPLER BOREHOLE RECORD					CP3				
Project: Residential Development				Project No: GUK-0524-02						Approx. Coordinates: 386327, 401377			Sheet 1 of 2							
Location: Church Lane, Moston									Approx. Level: 72.85 mAOD		Plant Dando 2000									
Client: Built Developments Limited									Date: 09/10/2024		Logged By GC									
Well	Water (m bgl)	Samples & Field Testing				Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description								
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)												
		0.5	ES1	1/1, 2,2,2,2 (8)					0.0-0.4	72.85	MADE GROUND: Sand (RECONSTITUTED GROUND).									
									0.4-1.2	72.45	MADE GROUND: Brick rubble and sand (RECONSTITUTED GROUND).									
									1.0	1.0		1.2-3.9	71.65	MADE GROUND: Black very sandy clay with gravel and brick (RECONSTITUTED GROUND).						
		1.2																		
		1.5		1/2, 2,3,2,3 (10)																
		2.0														2.0				
		2.5																		
		3.0	3.0						1/1, 1,1,2,1 (5)											
		3.5																		
		4.0	4.0																	
		4.5	ES2	2/3, 3,4,3,5 (15)										3.9-9.5	68.95	MADE GROUND: Black clay with timber, sand, gravel, brick and occasional plastic (RECONSTITUTED GROUND).				
		5.0															5.0		1/2, 3,2,3,3 (11)	
5.5																				
6.0	6.0		4/5, 7,8,6,6 (27)																	
6.5																				
7.0																				
Boring Progress and Water Observations																	General Remarks			
	Date 09/10/2024	Water Depth none	Casing														Chiselling			ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified
			Depth	Dia. mm													From	To	Hours	
			10.5	150																

GROUNDSMITHS GEOTECHNICAL ENGINEERS											PERCUSSIVE SAMPLER BOREHOLE RECORD					CP3	
Project: Residential Development				Project No: GUK-0524-02						Approx. Coordinates: 386327, 401377			Sheet 2 of 2				
Location: Church Lane, Moston									Approx. Level: 72.85 mAOD		Plant Dando 2000						
Client: Built Developments Limited									Date: 09/10/2024		Logged By GC						
Well	Water (m bgl)	Samples & Field Testing			Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description						
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)									
		7.5	7.5	4/5, 7,7,8,10 (32)	17.9	41	22	19	9.5-12.0	63.35	... contd./						
		8.0															
		8.5															
		9.0	9.0	3/3, 5,4,4,4 (17)													
		9.5															
		10.0	10.0 10.0	ES3 DS1													
		10.5	10.5	5/6, 7,7,8,9 (31)													
		11.0	11.0	DS2													
		11.5	11.5	8/9, 9,9,12,15 (45)													
		12.0	12.0	DS3													
		12.5															
		13.0															
		13.5															
		14.0															
Boring Progress and Water Observations											General Remarks						
	Date 09/10/2024	Water Depth none	Casing			Chiselling						ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified					
			Depth	Dia. mm		From	To	Hours									
			10.5	150													

GROUNDSMITHS GEOTECHNICAL ENGINEERS											PERCUSSIVE SAMPLER BOREHOLE RECORD					CP4	
Project: Residential Development				Project No: GUK-0524-02						Approx. Coordinates: 386357, 401388			Sheet 1 of 4				
Location: Church Lane, Moston									Approx. Level: 72.57 mAOD			Plant Dando 2000					
Client: Built Developments Limited									Date: 30/09/2024			Logged By GC					
Well	Water (m bgl)	Samples & Field Testing			Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description						
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)									
		0.5	0.5	ES1							MADE GROUND: Sand over black very sandy clay with gravel, brick, concrete and cobbles (RECONSTITUTED GROUND).						
		1.0															
		1.2	2/1, 1,1,1,1 (4)														
		1.5	ES2														
		2.0	2.0	1/2, 1,2,2,2 (7)													
		2.5															
		3.0	3.0	ES3								2/3, 5,7,3,2 (17)					
		3.5															
		4.0	4.0	2/4, 6,4,3,4 (17)													
		4.5															
		5.0	5.0	3/3, 5,5,5,4 (19)													
		5.5	5.5	ES4													
		6.0	6.0	2/4, 4,6,7,7 (24)													
		6.5															
		7.0															
		Boring Progress and Water Observations											General Remarks				
	Date 30/09/2024	Water Depth 8.6	Casing									ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified					
			Depth	Dia. mm													
			21.0	150													

GROUNDSMITHS GEOTECHNICAL ENGINEERS PERCUSSIVE SAMPLER BOREHOLE RECORD												CP4	
Project: Residential Development				Project No: GUK-0524-02				Approx. Coordinates: 386357, 401388					
Location: Church Lane, Moston										Approx. Level: 72.57 mAOD		Sheet 2 of 4 Plant Dando 2000	
Client: Built Developments Limited										Date: 30/09/2024		Logged By GC	
Well	Water	Samples & Field Testing				Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description	
	(m bgl)	Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)					
	8.6	7.5	7.5		3/3, 3,4,5,5 (17)							... contd./	
		8.0											
		8.5											
		9.0	9.0		6/8, 10,12,13,15 (50)					8.8-9.0	63.77	Red CLAY (DIAMICTON).	
		9.5	9.5	ES5 DS1		21	32	18	14	9.0-13.3	63.57	Very stiff brown very sandy slightly gravelly CLAY. Gravel is subangular sandstone. High undrained shear strength. Low plasticity (DIAMICTON).	
		10.0											
		10.5	10.5		8/10, 12,14,16,8/30mm (50)								
		11.0	11.0	DS2									
		11.5											
		12.0	12.0		14/11, 15,17,18/65mm (50)								
		12.5	12.50	DS3		20.3	38	20	18				
		13.0											
		13.5	13.5	DS4	9/10, 10,7,8,8 (33)					13.3-17.5	59.27	Dense brown SAND (COLLYHURST SANDSTONE FORMATION?).	
		14.0											
Boring Progress and Water Observations												General Remarks	
	Date	Water Depth	Casing			Chiselling						ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified	
	30/09/2024	8.6	Depth	Dia. mm		From	To	Hours					
			21.0	150									

GROUNDSMITHS GEOTECHNICAL ENGINEERS										PERCUSSIVE SAMPLER BOREHOLE RECORD										CP4 Sheet 3 of 4	
Project: Residential Development					Project No: GUK-0524-02					Approx. Coordinates: 386357, 401388											
Location: Church Lane, Moston										Approx. Level: 72.57 mAOD					Plant Dando 2000						
Client: Built Developments Limited										Date: 30/09/2024					Logged By GC						
Well	Water (m bgl)	Samples & Field Testing				Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description									
		Depth (m)	Type	SPT (N)		Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)												
		14.5										... contd./									
		15.0	15.0	DS5	10/10, 10,10,9,9 (38)							Dense brown SAND (COLLYHURST SANDSTONE FORMATION?).									
		15.5																			
		16.0																			
		16.5	16.5	DS6	10/10, 10,12,12,12 (46)																
		17.0																			
		17.5							17.5-20.2	55.07		Medium dense brown silty SAND with interbedded horizons of very stiff brown very sandy clay (COLLYHURST SANDSTONE FORMATION?).									
		18.0	18.0	DS7	5/6, 6,6,7,8 (27)	17	33	15	18												
		18.5																			
		19.0																			
		19.5	19.50	DS8	4/4, 3,4,5,5 (17)																
		20.0							20.2-21.1	52.37		Stiff brown sandy CLAY. High undrained shear strength. Intermediate plasticity (COLLYHURST SANDSTONE FORMATION?).									
		20.5	20.3	DS9		19.1	37	21	16												
		21.0	21.0	DS10	15/10, 18,44,38/25mm (100)					21.1-22.0	51.47	SANDSTONE. Nil recovery (COLLYHURST SANDSTONE FORMATION?).									
Boring Progress and Water Observations														General Remarks							
	Date	Water Depth	Casing							Chiselling			ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified								
			Depth	Dia. mm						From	To	Hours									
30/09/2024	8.6	21.0	150						21.1	22.0	2.0										

GROUNDSMITHS GEOTECHNICAL ENGINEERS PERCUSSIVE SAMPLER BOREHOLE RECORD											CP5 Sheet 2 of 4					
Project: Residential Development				Project No: GUK-0524-02					Approx. Coordinates: 386313, 401406			Plant Dando 2000				
Location: Church Lane, Moston									Approx. Level: 73.10 mAOD		Logged By GC					
Client: Built Developments Limited									Date: 07/10/2024							
Well	Water (m bgl)	Samples & Field Testing			Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description					
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)								
		7.5	7.5		3/3, 4,3,4,6 (17)							... contd./				
		8.0														
		8.5														
		9.0	9.0	ES4	5/6, 7,9,9,11 (36)							64.30	Very stiff brown sandy gravelly CLAY. Gravel is subangular sandstone. Medium to high undrained shear strength. Low plasticity (DIAMICTON).			
		9.3														
		9.5	9.5	DS1	12.5	31	17	14	9.5-22.6	63.60	Dense becoming very dense brown SAND with occasional horizons and laminations of very stiff brown very sandy slightly gravelly CLAY (COLLYHURST SANDSTONE FORMATION?).					
		10.0														
		10.5	10.5		12/13, 14,16,20 (50)											
		11.0														
		11.5														
		12.0	12.0		15/10, 16,18,16/20mm (50)											
		12.5														
13.0																
13.5	13.5		12/13, 16,21,13/50mm (50)													
14.0																
Boring Progress and Water Observations												General Remarks				
	Date	Water Depth	Casing										ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified			
	07/10/2024	none	Depth	Dia. mm										From	To	Hours
			21.0	150												

GROUNDSMITHS GEOTECHNICAL ENGINEERS											PERCUSSIVE SAMPLER BOREHOLE RECORD											CP5		
Project: Residential Development					Project No: GUK-0524-02										Approx. Coordinates: 386313, 401406					Sheet 3 of 4				
Location: Church Lane, Moston											Approx. Level: 73.10 mAOD					Plant Dando 2000								
Client: Built Developments Limited											Date: 07/10/2024					Logged By GC								
Well	Water (m bgl)	Samples & Field Testing				Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description												
		Depth (m)	Type	SPT (N)		Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)															
		14.5	15.0		10/15, 17,20,13/50mm (50)							... contd./ Very dense brown SAND with occasional horizons and laminations of stiff brown sandy CLAY (COLLYHURST SANDSTONE FORMATION?).												
		15.0																						
		15.5																						
		16.0	16.5		9/16, 18,21,11/40mm (50)																			
		16.5																						
		17.0																						
		17.5	18.0		14/11, 17,20,13/50mm (50)																			
		18.0																						
		18.5																						
		19.0	19.50		10/11, 11,13,14,12/70mm (50)																			
		19.5																						
		20.0																						
20.5	21.0																							
21.0																								
Boring Progress and Water Observations												General Remarks												
	Date 07/10/2024	Water Depth none	Casing								Chiselling			ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified										
			Depth	Dia. mm							From	To	Hours											
			21.0	150																				

Groundsmiths (UK) Ltd - Brampton, Chesterfield, Derbyshire S40 3FG

GROUNDSMITHS GEOTECHNICAL ENGINEERS												PERCUSSIVE SAMPLER BOREHOLE RECORD						CP6	
Project: Residential Development				Project No: GUK-0524-02						Approx. Coordinates: 386333, 401415				Sheet 1 of 2					
Location: Church Lane, Moston										Approx. Level: 73.13 mAOD		Plant Dando 2000							
Client: Built Developments Limited										Date: 08/10/2024		Logged By GC							
Well	Water (m bgl)	Samples & Field Testing				Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description							
		Depth (m)	Type	SPT (N)		Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)										
		0.5								0.0-0.5	73.13	Topsoil over gravel and brick (RECONSTITUTED GROUND).							
										0.5-1.3	72.63	MADE GROUND: Dark grey-black very sandy clay with gravel, brick, concrete and large cobbles (RECONSTITUTED GROUND).							
		1.0	1.0	ES1															
			1.2		2/4, 3,3,5,4 (15)														
		1.5								1.3-2.0	71.83	MADE GROUND: Black very sandy clay with gravel and brick. Hydrocarbon odour (RECONSTITUTED GROUND).							
		2.0	2.0	ES2	1/1, 1,1,2,1 (5)					2.0-4.8	71.13	MADE GROUND: Black gravelly clay with timber, plastic, fragments of glass and brick (RECONSTITUTED GROUND).							
		2.5																	
		3.0	3.0		1/0, 1,1,0,1 (3)														
		3.5																	
		4.0	4.0		1/1, 1,1,2,1 (5)														
		4.5																	
		5.0	5.0	ES3	1/2, 2,3,2,3 (10)					4.8-9.0	68.33	MADE GROUND: Dark brown-black gravelly organic clay with occasional brick (RECONSTITUTED GROUND).							
	5.5																		
	6.0	6.0		3/6, 8,5,5,5 (23)															
	6.5																		
	7.0																		
Boring Progress and Water Observations												General Remarks							
	Date	Water Depth	Casing			Chiselling						ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified							
	08/10/2024	none	Depth	Dia. mm		From	To	Hours											
			11.8	150															

GROUNDSMITHS GEOTECHNICAL ENGINEERS											PERCUSSIVE SAMPLER BOREHOLE RECORD											CP6 Sheet 2 of 2	
Project: Residential Development					Project No: GUK-0524-02					Approx. Coordinates: 386333, 401415													
Location: Church Lane, Moston											Approx. Level: 73.13 mAOD					Plant Dando 2000							
Client: Built Developments Limited											Date: 08/10/2024					Logged By GC							
Well	Water (m bgl)	Samples & Field Testing				Water Content & Plasticity Indices*				Depth (m bgl)	Level (mAOD)	Stratum Description											
		Depth (m)	Type	SPT (N)	Water Content (%)	Liquid Limit (wL)	Plasticity Index (Ip)	Plastic Limit (wp)															
		7.5	7.5		2/2, 3,2,3,2 (10)							... contd./											
		8.0																					
		8.5																					
		9.0	9.0		1/2, 2,3,2,3 (10)							64.13 Stiff brown sandy gravelly CLAY. Gravel is subangular sandstone. Medium undrained shear strength. Intermediate plasticity (DIAMICTON).											
		9.5																					
		10.0																					
		10.5	10.5 10.5	ES4 DS1	2/3, 4,4,4,6 (18)	26.8	42	22	20			63.23 Firm becoming stiff to very stiff brown-grey sandy slightly gravelly CLAY. Gravel is subangular sandstone. High undrained shear strength. Intermediate plasticity (DIAMICTON).											
		11.0																					
		11.5																					
		12.0	12.0		6/8, 10,10,12,13 (45)							61.23 Dense brown silty SAND (COLLYHURST SANDSTONE FORMATION?).											
		12.5																					
		13.0																					
		13.5																					
		14.0																					
Boring Progress and Water Observations											General Remarks												
	Date 08/10/2024	Water Depth none	Casing		11.8	150		Chiselling			ES - Environmental Sample D - Small Disturbed Sample B - Large Disturbed Sample Strength and/or plasticity denoted indicate field observations only SPT 'N' is uncorrected *Plasticity data is non-modified												
			Depth	Dia. mm				From	To	Hours													

STANDARD PENETRATION TEST (SPT) RECORD

Project: Residential Development

Location: Church Lane, Moston

Client: Built Developments Limited

Project No: GUK-0524-02

Logged:		GC	Approx. Coordinates:		386383, 401371		Approx. Level:		72.36	mAOD	Date:		09/10/2024	CP1		
Depth m bgl	Seating Drives		Test Drives				(N)	SPT 'N' Penetration Depth (m)								
	75mm	75mm	75mm	75mm	75mm	75mm	300mm									
	1.20	3	4	6	44		50									
	2.00	3	1	1	2	1	2									6
	3.00	1	1	2	2	1	2									7
	4.00	1	0	1	2	1	2									6
	5.00	2	2	3	2	3	3									11
	6.00	2	2	2	2	3	3									10
	7.50	5	6	4	3	3	4									14
	9.00	6	7	8	8	9	12									37
	10.50	8	10	12	15	20	3									50
	Borehole completed to interface between made ground and underlying natural strata															
	12.00															
	13.50															
	15.00															
	16.50															
	18.00															
	19.50															
	21.50															
	23.00															
	24.50															
	26.00															
	27.50															
	29.00															
	30.50															

Logged:		GC	Approx. Coordinates:		386363, 401359		Approx. Level:		72.36	mAOD	Date:		03/10/2024	CP2		
Depth m bgl	Seating Drives		Test Drives				(N)	SPT 'N' Penetration Depth (m)								
	75mm	75mm	75mm	75mm	75mm	75mm	300mm									
	1.20	2	1	1	1	2	1									5
	2.00	1	1	2	1	2	1									6
	3.00	2	5	3	2	2	3									10
	4.00	1	1	1	3	4	3									11
	5.00	1	1	2	1	2	2									7
	6.00	1	1	1	2	1	2									6
	7.50	3	2	2	2	2	2									8
	9.00	1	1	3	2	3	3									11
	10.50	4	3	3	3	3	3									12
	12.00	5	7	8	10	10	11									39
	13.50	25		28	22											50
	15.00	10	10	10	15	16	9									50
	16.50	6	8	8	9	9	10									36
	18.00	8	10	12	15	20	3									50
	19.50	6	8	12	16	22										50
	21.50	20	5	20	30											50
	23.00															
	24.50															
	26.00															
	27.50															
	29.00															
	30.50															

Logged:		GC	Approx. Coordinates:		386327, 401377		Approx. Level:		72.85	mAOD	Date:		09/10/2024	CP3		
Depth m bgl	Seating Drives		Test Drives				(N)	SPT 'N' Penetration Depth (m)								
	75mm	75mm	75mm	75mm	75mm	75mm	300mm									
	1.20	1	1	2	2	2	2									8
	2.00	1	2	2	3	2	3									10
	3.00	1	1	1	1	2	1									5
	4.00	2	3	3	4	3	5									15
	5.00	1	2	3	2	3	3									11
	6.00	4	5	7	8	6	6									27
	7.50	4	5	7	7	8	10									32
	9.00	3	3	5	4	4	4									17
	10.50	5	6	7	7	8	9									31
	12.00	8	9	9	9	12	15									45
	Borehole completed to interface between made ground and underlying natural strata															
	13.50															
	15.00															
	16.50															
	18.00															
	19.50															
	21.50															
	23.00															
	24.50															
	26.00															
	27.50															
	29.00															
	30.50															

Logged:	GC	Approx. Coordinates:	386363, 401359	Approx. Level:	72.36	mAOD	Date:	03/10/2024	CP2
Depth m bgl	Seating Drives		Test Drives			(N)			
	75mm	75mm	75mm	75mm	75mm	300mm			
1.20	2	1	1	1	2	1			
2.00	1	1	2	1	2	1			
3.00	2	5	3	2	2	3			
4.00	1	1	1	3	4	3			
5.00	1	1	2	1	2	2			
6.00	1	1	1	2	1	2			
7.50	3	2	2	2	2	2			
9.00	1	1	3	2	3	3			
10.50	4	3	3	3	3	3			
12.00	5	7	8	10	10	11			
13.50	25		28	22					
15.00	10	10	10	15	16	9			
16.50	6	8	8	9	9	10			
18.00	8	10	12	15	20	3			
19.50	6	8	12	16	22				
21.50	20	5	20	30					
23.00									
24.50									
26.00									
27.50									
29.00									
30.50									

SPT 'N'

Penetration Depth (m)

Logged:	GC	Approx. Coordinates:		386327, 401377		Approx. Level:		72.85		mAOD	Date:	09/10/2024		CP3	
Depth m bgl	Seating Drives			Test Drives			(N)								
	75mm		75mm	75mm	75mm	75mm	75mm	300mm							
	1		1	2	2	2	2	8							
	1		2	2	3	2	3	10							
	1		1	1	1	2	1	5							
	2		3	3	4	3	5	15							
	1		2	3	2	3	3	11							
	4		5	7	8	6	6	27							
	4		5	7	7	8	10	32							
	3		3	5	4	4	4	17							
	5		6	7	7	8	9	31							
	8		9	9	9	12	15	45							
	13.50 Borehole completed to interface between made ground and underlying natural strata														
	15.00														
	16.50														
	18.00														
	19.50														
21.50															
23.00															
24.50															
26.00															
27.50															
29.00															
30.50															

SPT 'N'

Penetration Depth (m)

Depth (m)	SPT 'N'
1.20	8
2.00	10
3.00	5
4.00	15
5.00	11
6.00	27
7.50	32
9.00	17
10.50	31
12.00	45

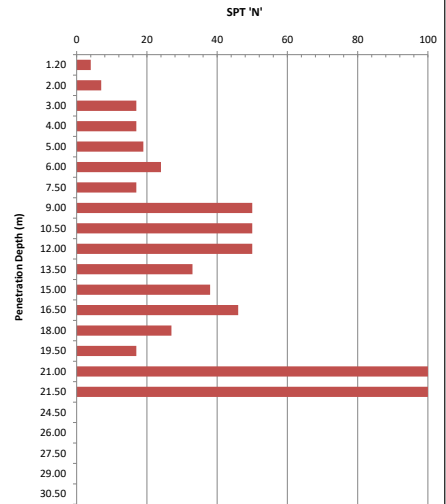
Project: Residential Development

Location: Church Lane, Moston

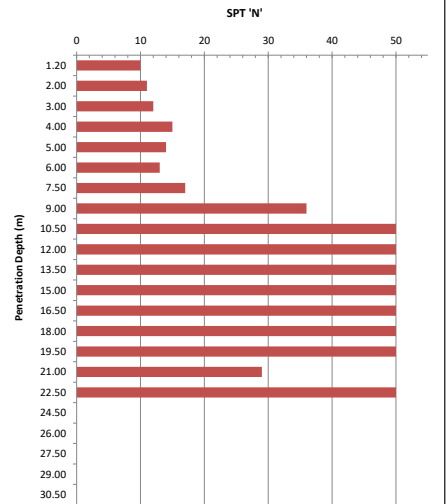
Client: Built Developments Limited

Project No: GUK-0524-02

Logged:	GC	Approx. Coordinates:	386357, 401388	Approx. Level:	72.57	mAOD	Date:	30/09/2024	CP4
Depth m bgl	Seating Drives		Test Drives			(N)			
	75mm	75mm	75mm	75mm	75mm	300mm			
1.20	2	1	1	1	1	4			
2.00	1	2	1	2	2	7			
3.00	2	3	5	7	3	17			
4.00	2	4	6	4	3	17			
5.00	3	3	5	5	5	19			
6.00	2	4	4	6	7	24			
7.50	3	3	3	4	5	17			
9.00	6	8	10	12	13	50			
10.50	8	10	12	14	16	50			
12.00	14	11	15	17	18	50			
13.50	9	10	10	7	8	33			
15.00	10	10	10	10	9	38			
16.50	10	10	10	12	12	46			
18.00	5	6	6	6	7	27			
19.50	4	4	3	4	5	17			
21.00	15	10	18	44	38	100			
21.50	25		78	22		100			
24.50									
26.00									
27.50									
29.00									
30.50									



Logged:	GC	Approx. Coordinates:	386313, 401406	Approx. Level:	73.10	mAOD	Date:	07/10/2024	CP5
Depth m bgl	Seating Drives		Test Drives			(N)			
	75mm	75mm	75mm	75mm	75mm	300mm			
1.20	2	1	2	3	3	10			
2.00	2	3	3	2	3	11			
3.00	2	3	2	3	3	12			
4.00	3	2	3	4	4	15			
5.00	2	3	3	3	4	14			
6.00	6	3	3	3	4	13			
7.50	3	3	4	3	4	17			
9.00	5	6	7	9	9	36			
10.50	12	13	14	16	20	50			
12.00	15	10	16	18	16	50			
13.50	12	13	16	21	13	50			
15.00	10	15	17	20	13	50			
16.50	9	16	18	21	11	50			
18.00	14	11	17	20	13	50			
19.50	10	11	11	13	14	50			
21.00	5	6	6	7	7	29			
22.50	12	13	15	17	18	50			
24.50									
26.00									
27.50									
29.00									
30.50									



Logged:	GC	Approx. Coordinates:	386333, 401415	Approx. Level:	73.13	mAOD	Date:	08/10/2024	CP6
Depth m bgl	Seating Drives		Test Drives			(N)			
	75mm	75mm	75mm	75mm	75mm	300mm			
1.20	2	4	3	3	5	15			
2.00	1	1	1	1	2	5			
3.00	1	0	1	1	0	3			
4.00	1	1	1	1	2	5			
5.00	1	2	2	3	2	10			
6.00	3	6	8	5	5	23			
7.50	2	2	3	2	3	10			
9.00	1	2	2	3	2	10			
10.50	2	3	4	4	4	18			
12.00	6	8	10	10	12	45			
13.50	Borehole completed to interface between made ground and underlying natural strata								
15.00									
16.50									
18.00									
19.50									
21.50									
23.00									
24.50									
26.00									
27.50									
29.00									
30.50									

