Figure 2 – Exploratory Hole Location and Proposed Development Plan





LEGEND

Trial Pit
 Dynamic Sampler
 Locations with Installs

Site Plan Provided by Client

	TITLE: Exploratory Hole Location and Proposed Development Plan	RB	SCALE: 1:3,500 REVISION:	PROJECT NO: 18-0886.03
Environment - Health & Safety - Sustainability	Land off Clitheroe Road Whalley	MB DATE: 16th Aug	0 ust 2018	FIGURE NO: 2

Figure 3 – SPT N60 versus Depth Plot



Environment | Health & Safety | Sustainability

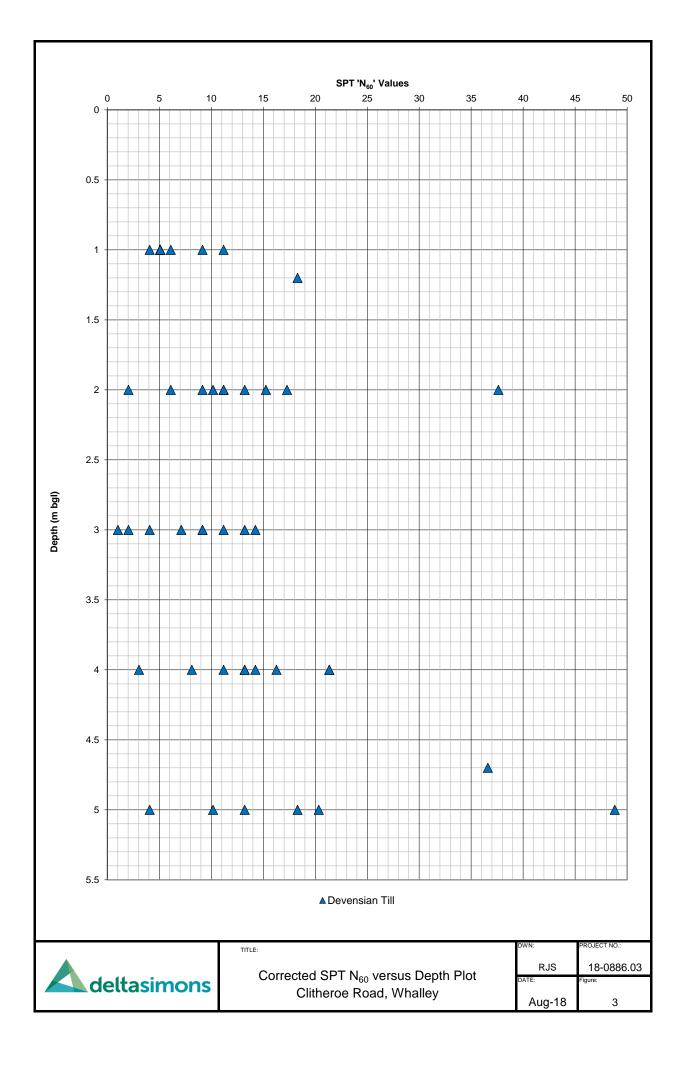
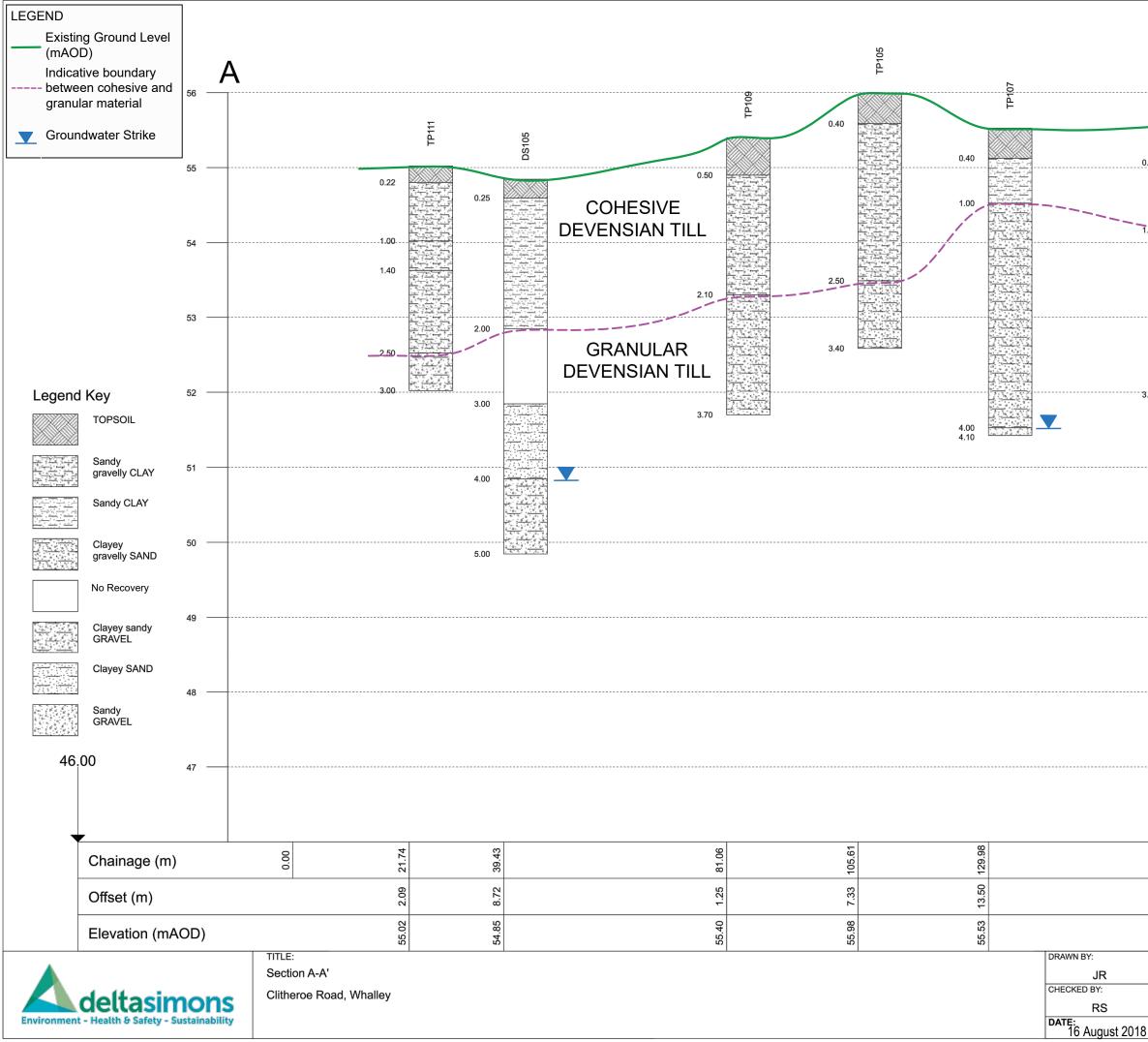


Figure 4a – 4c – Inferred Geological Cross Sections



Environment | Health & Safety | Sustainability



				^	\ '
	TP106				56
	4				
0.5					
0.0					55
1.4	0				54
					54
					53
3.6	0	<u></u>			52
					F1
					51
					50
					49
					48
					47
	0		2		
	164.2		189.42		
	14.14 164.20				
	14.				
	55.57				
			VERTICAL SCALE:	PROJECT N	0.
	ENGINEER:		1:50		
	REVISION:		HORIZONTAL SCALE:		886.03
		-	1:700	FIGURE NO:	
3	CLIENT:	Trafford Ho	ousing Trust		4a

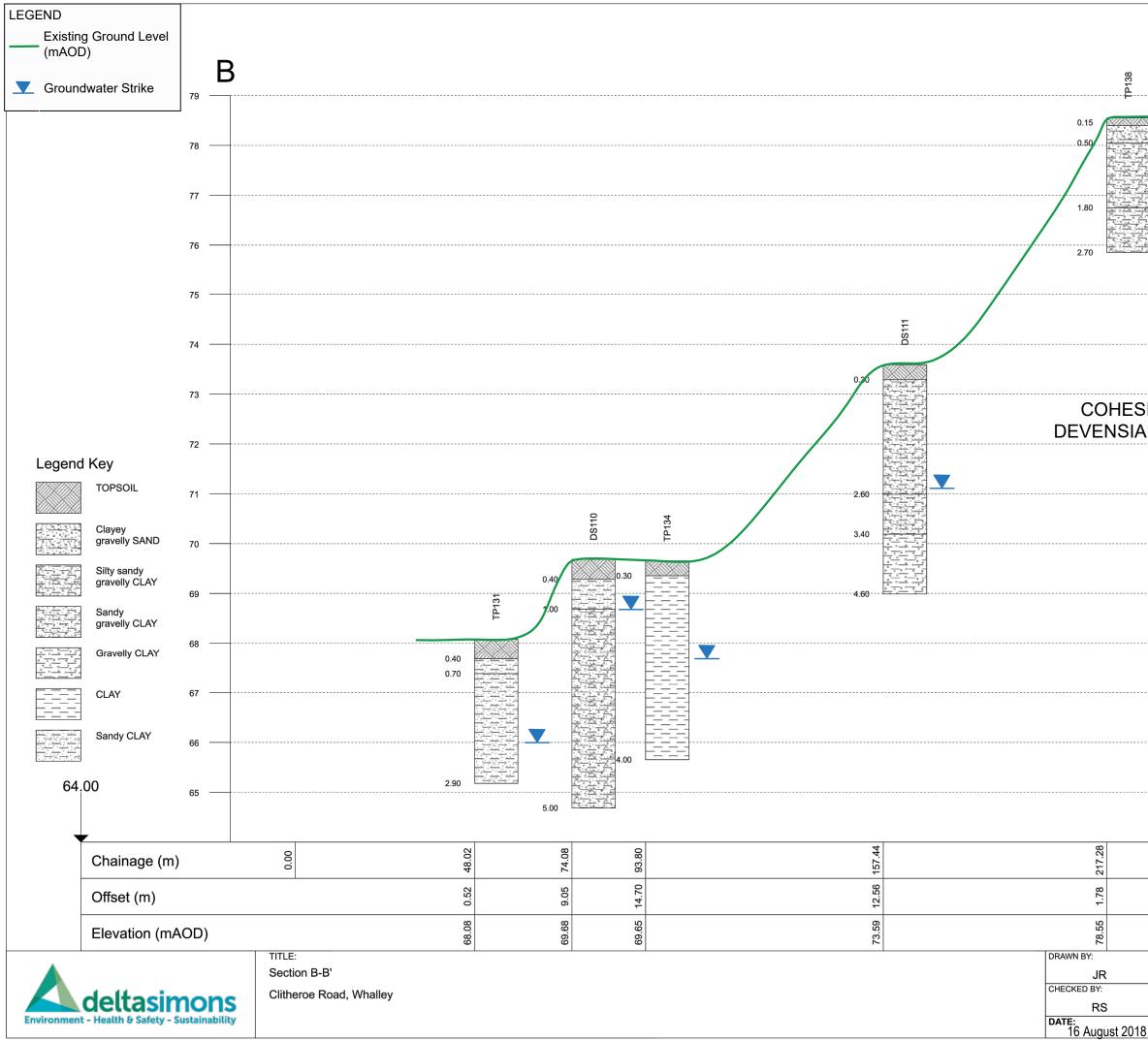
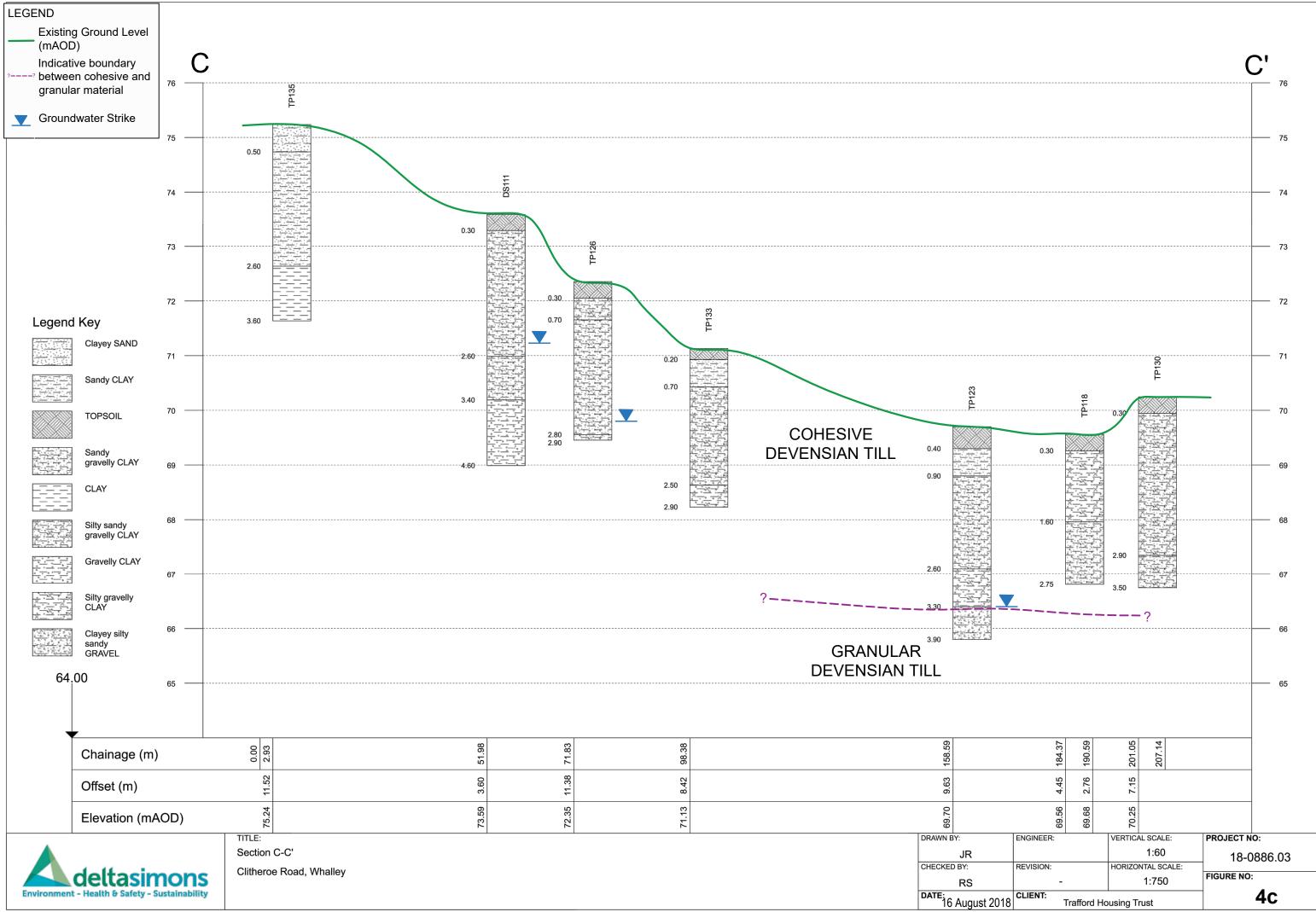


Image: Second				B'
Image: Simple state in the	~~~			
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74 73 SIVE N TILL 72 71 70 69 68 67 68 67 68 67 68 67 68 67 68 67 68 67 68 67 68 69 61 71 70 71 70 69 61 62 73 70 71 70 63 64 65 70 71 72 73 74 70 71 72 73 74 74 74 74 74				
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SIVE 73 N TILL 72 71 71 70 69 69 68 69 68 67 66 65 65 8 65 9 1:100 FIGURE NO: 1:100 60 65				
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SIVE 72 N TILL 72 71 70 69 68 69 68 67 66 68 67 69 68 61 66 62 65 8 65 8 65 9 66 66 65 9 66 67 66 68 67 69 66 61 65 9 1:75 18-0886.03 1:1000 FIGURE NO: 1:1000				
N TILL 72 71 71 70 69 69 68 67 66 66 65 8 66 8 66 9 66 65 65 9 1:75 REVISION: HORIZONTAL SCALE: 1:1000 FIGURE NO: FIGURE NO: 1:1000				73
72 71 70 69 69 68 67 66 67 66 65 8 8 8 61 62 8 63 64 65 8 8 8 9 12 9 12 13 14 14				
70 69 68 67 66 67 66 65 80 80 80 81 82 83 64 65 85 86 87 88 89 80 80 80 80 81 82 83 84 84 85 85 86 87	\ 1			72
70 69 68 67 66 67 66 65 80 80 80 81 82 83 64 65 85 86 87 88 89 80 80 80 80 81 82 83 84 84 85 85 86 87				
69 68 67 66 67 66 65 87 87 87 87 87 68 66 65 87				71
69 68 67 66 67 66 65 87 87 87 87 87 68 66 65 87				
68 67 66 66 65 87 87 87 65 87 65 87 65 87 65 87 65 87 65 87				70
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 				69
 				60
 	_ ***			68
 				
87 87 87 87 87 87 87 87 87 87 87 87 87 8				
87 88 80 Vertical scale: PROJECT NO: 1:75 18-0886.03 REVISION: HORIZONTAL SCALE: - 1:1000 FIGURE NO: 4b				66
87 88 80 Vertical scale: PROJECT NO: 1:75 18-0886.03 REVISION: HORIZONTAL SCALE: - 1:1000 FIGURE NO: 4b				
ENGINEER: VERTICAL SCALE: PROJECT NO: 1:75 18-0886.03 REVISION: HORIZONTAL SCALE: - 1:1000				65
ENGINEER: VERTICAL SCALE: PROJECT NO: 1:75 18-0886.03 REVISION: HORIZONTAL SCALE: - 1:1000				
ENGINEER: VERTICAL SCALE: PROJECT NO: 1:75 18-0886.03 REVISION: HORIZONTAL SCALE: - 1:1000		18		
1:75 18-0886.03 REVISION: HORIZONTAL SCALE: - 1:1000		238.4		
1:75 18-0886.03 REVISION: HORIZONTAL SCALE: - 1:1000				
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1:75 18-0886.03 REVISION: HORIZONTAL SCALE: - 1:1000			VERTICAL SCALE	
REVISION: HORIZONTAL SCALE: - 1:1000			1:75	
		REVISION: -		FIGURE NO:
Trafford Housing Trust	3	CLIENT: Trafford Ho		4b



Appendix A – Limitations



Environment | Health & Safety | Sustainability

Limitations

The recommendations contained in this Report represent Delta-Simons professional opinions, based upon the information listed in the Report, exercising the duty of care required of an experienced Environmental Consultant. Delta-Simons does not warrant or guarantee that the Site is free of hazardous or potentially hazardous materials or conditions.

Delta-Simons obtained, reviewed and evaluated information in preparing this Report from the Client and others. Delta-Simons conclusions, opinions and recommendations has been determined using this information. Delta-Simons does not warrant the accuracy of the information provided to it and will not be responsible for any opinions which Delta-Simons has expressed, or conclusions which it has reached in reliance upon information which is subsequently proven to be inaccurate.

This Report was prepared by Delta-Simons for the sole and exclusive use of the Client and for the specific purpose for which Delta-Simons was instructed. Nothing contained in this Report shall be construed to give any rights or benefits to anyone other than the Client and Delta-Simons, and all duties and responsibilities undertaken are for the sole and exclusive benefit of the Client and not for the benefit of any other party. In particular, Delta-Simons does not intend, without its written consent, for this Report to be disseminated to anyone other than the Client or to be used or relied upon by anyone other than the Client. Use of the Report by any other person is unauthorised and such use is at the sole risk of the user. Anyone using or relying upon this Report, other than the Client, agrees by virtue of its use to indemnify and hold harmless Delta-Simons from and against all claims, losses and damages (of whatsoever nature and howsoever or whensoever arising), arising out of or resulting from the performance of the work by the Consultant.



Appendix B – Borehole and Trial Pit Logs, SPT Calibration Certificate



		:	3 Henley Wa	e <mark>ad Office</mark> ay, Doddingto oln, LN6 3QF		Project	18	-0886	.03		Hole I	DS1	101	Page: 1 of 1
deltasim Environment - Health & Safety - Sus	ONS tainability		Tel: +44	(0) 1522 882 @deltasimor	2555	Project:		ithero	e Ro	ad,	Wha	lley		
Dyna	mic Samp	ler Lo	og			Date:	11	/07/20	18		Client:	Traff Trus	ford Ho t	using
Description of Strata		gend	Strata Depth	Strata Thickness	Reduced Level	Casing Diameter	Water	Samp	le Deta	ils		Test Detai	ls	Backfill
		genu	(m bgl)	(m)	(mAOD)	(mm)	mator	Depth (m)			Depth (m)	Res	sults	Duckin
TOPSOIL: Brown slightly clayey SAN frequent rootlets. Sand is fine to meet			- 0.25	(0.25)	54.59			0.00 - 0.25	ES	1				<u>같</u> 은 전
Loose light brown becoming black at slightly clayey fine to coarse SAND v occasional gravel. Gravel is subroun fine of natural lithologies. [DEVENSIAN TILL]	/ith			(1.75)							1.00		5) N=9 (2,2,3)	
			- - - 2.00		52.84			1.80 - 2.00	ES	2	2.00	CDT/C	·) NI-11	
Soft to firm orangish brown slightly s CLAY. Sand is fine to coarse. [DEVENSIAN TILL]	andy		- - - - - - -	(1.00)							2.00		i) N=11 ,3,3,3)	
Very loose brown slightly clayey grav fine to coarse SAND with occasional cobbles. Gravel is subangular to subrounded fine to coarse of natural lithologies. Cobbles are rounded of sandstone. At 5.0 m bgl: Becomes medium dens [DEVENSIAN TILL]			- - - - - - - -		51.84		<u>3.00</u> ¥				3.00		5) N=1 ,1,0,0)	
	3. 2014년 1월 19일 - 19 19일 - 19일 - 19일 19일 - 19일 - 19g - 19g - 19g - 19 19일 - 19g		- - - - - - - - -	(2.00)							4.00		5) N=3 ,1,1,1)	
Borehole complete at 5.00 m bg	l.		5.00		49.84						5.00		5) N=20 ,4,6,5)	
Remarks: 1. Engineer verified logged in genera	accordance w	vith BS !	- - - - - 5930:2015					r Strike			Water		Borehole D	
 Dynamic sampled between 1.0 m a Hole terminated in superficial sand Groundwater was encountered at 3 No visual or olfactory evidence of a Backfilled with arisings. 	and 5.0 m bgl. deposits. 3.0 m bgl.					Date 11/07/20			epth Strike 3.00 m) D	uration [Depth Water	Depth Base	Diamete
J. J														

		3 Henley W	lead Office /ay, Doddingto		Project	^{No:} 18	-0886	6.03		Hole ID	DS1	02	Page: 1 of 1
Environment - Health & Safety - Sustai	ons	Linc Tel: +44	coln, LN6 3QF 4 (0) 1522 882 c@deltasimor	R 2555	Project:		itherc	be Roa	ad,	Whal	ley		
Dynam	ic Sampler Lo	og			Date:	11	/07/20	18		Client:	Traff Trus	ford Ho t	using
Description of Strata	Legend	Strata Depth	Strata Thickness	Reduced Level	Casing Diameter	Water	Samp Depth	le Detai		Depth	Test Detai	ls	Backfi
TOPSOIL: Brown slightly clayey fine to		(m bgl)	(m)	(mAOD)	(mm)		(m) 0.00 -	Type ES	Ref	(m)	Res	sults	17 M 17
coarse SAND with frequent rootlets.		- - - 0.40	(0.40)	57.55			0.40						
Soft to firm orangish brown slightly san gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fin coarse of natural lithologies. [DEVENSIAN TILL]			(1.40)	57.55		1.50 🗸				1.00		6) N=5 ,1,2,1)	
Very soft brownish grey slightly sandy		 		56.15		1.00	1.50 - 1.60	ES	2				
gravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fin coarse of mudstone. Poor recovery between 2 - 3m bgl. At 4.0 m bgl: Becomes firm. [DEVENSIAN TILL]	e to	- 								2.00		S) N=2 ,0,0,1)	
			(3.20)							3.00		6) N=2 ,1,0,1)	
		-								4.00) N=11 (3,3,3)	
Borehole complete at 5.00 m bgl.		<u>5.00</u> - - - - -		52.95						5.00) N=13 ,3,4,4)	
Remarks: 1. Engineer verified logged in general a 2. Dynamic sampled between 1.0 m an- 3. SPT taken from 5.0 m to 5.45 m bgl. 4. Groundwater was encountered at 1.5 5. No visual or olfactory evidence of cor 6. Backfilled with arisings.	d 5.0 m bgl. 5 m bgl.				Date 11/07/20	Т		epth Strike 1.50 m	Di	Water L uration	.evel	Borehole D	1
Coordinates: E	Elevation (mAOD):	Drilled By	/:		Plant U	sed:			Log	iged: 0	Checked:	Approved:	Scale:
E373709.00 N436319.81	57.95	Ear	rth Engin	eering	(Global	Geote	ch		MB	RJS	RJS	1:30

		3 Henley V	lead Office /ay, Doddingto	on Road	Project	^{No:} 18	-0886	6.03		Hole ID	DS ²	103	Page: 1 of 7
deltasimo Environment - Health & Safety - Sustain	ns ability	Tel: +44	coln, LN6 3QF 4 (0) 1522 882 o@deltasimor	2555	Project		itherc	oe Ro	ad,	Whal	ley		
Dynami	c Sampler L	og			Date:	11	/07/20	18		Client:	Traf Trus	ford Ho	using
Duriting (Durit		Strata	Strata	Reduced	Casing Diameter		Samp	ole Deta	ils	-	Test Detai	ils	
Description of Strata	Legend	Depth (m bgl)	Thickness (m)	Level (mAOD)	(mm)	Water	Depth (m)	Туре		Depth (m)	Res	sults	Backfi
FOPSOIL: Brown slightly clayey fine to nedium SAND with frequent rootlets.		- - 0.25	(0.25)	54.63			0.00 - 0.25	ES	1				
ioft to firm brown slightly sandy CLAY. and is fine to medium. DEVENSIAN TILL]				0.100									
			(1.75)				1.50 - 1.60	ES	2	1.00		S) N=5 ,1,2,1)	
irm brown slightly sandy gravelly CLAY		2.00		52.88						2.00		S) N=9 5,2,2,2)	
and is fine to coarse. Gravel is subang o subrounded fine to coarse of natural thologies. DEVENSIAN TILL]		-	(1.00)								(2,2/0	,-,-,-)	
cose brown slightly clayey sandy RAVEL. Sand is fine to coarse. Gravel ubangular to subrounded fine to coarse andstone. DEVENSIAN TILL]		3.00	(1.00)	51.88			2.90 - 3.00	ES	3	3.00		S) N=4 ,1,1,1)	
		- - - 4.00	(50.88		3.90 🚽				4.00	SPT(S	6) N=13	
lo recovery.		-								1.00	(0,0/0	,2,5,6)	
		-	(1.00)										
Borehole complete at 5.00 m bgl.		5.00 		49.88						5.00		S) N=10 2,2,3,3)	
		- - -											
		-											
emarks: Engineer verified logged in general ac Dynamic sampled between 1.0 m and SPT taken from 5.0 m to 5.45 m bgl. Groundwater was encountered at 3.9 No visual or olfactory evidence of con Backfilled with arisings.	5.0 m bgl. m bgl.			<u> </u>	Date	т	r Strike ime De	epth Strike 3.90 m	e D	Water L uration D	evel	Borehole D	-
	evation (mAOD):	Drilled B			Plant U							Approved:	Scale:
E373634.04 N436257.56	54.88	Ea	rth Engin	eering		Arch	way Da	rt		RR	MB	RJS	1:30

A		3 Henley W	lead Office /ay, Doddingto coln, LN6 3QF	on Road	Project	18	8-0886	5.03	Hole II	DS10	94 Pag	^{je:} of
Celtasimor Environment - Health & Safety - Sustainal		Tel: +44	4 (0) 1522 882 o@deltasimor	2555	Project:		ithero	e Roac	l, Wha	lley		
Dynamic	Sampler L	og			Date:	11	/07/20	18	Client:	Traffo Trust	rd Housiı	ng
Description of Strata	Legend	Strata Depth	Strata Thickness	Reduced Level	Casing Diameter	Water	-	le Details		Test Details		ack
		(m bgl)	(m)	(mAOD)	(mm)		Depth (m)	Type Re	(m)	Resul		
TOPSOIL: Brown slightly clayey fine to coarse SAND with frequent rootlets.		-	(0.40)				0.00 - 0.40	ES 1				$\langle \rangle$
		0.40		56.22								Ň
Soft to firm orangish brown sandy CLAY vith occasional gravel. Sand is fine to coarse. Gravel of natural lithologies. DEVENSIAN TILL]												
			(1.60)			1.20 🚽			1.00	SPT(S) (2,1/1,1		
		2.00		54.62								
oose brown clayey fine to medium SANI Between 3 - 3.2m bgl band of firm grey slightly silty CLAY. DEVENSIAN TILL]				54.02			2.30 - 2.40	ES 2	2.00	SPT(S) I (2,2/2,2		
			(3.00)						3.00	SPT(S) (0,2/1,2		
			(3.00)						4.00	SPT(S) (0,2/2,1		
		- - 5.00		51.62								
Borehole complete at 5.00 m bgl.		-							5.00	SPT(S) (0,0/1,0		
emarks:						Wate	er Strike		Water	Level B	orehole Diamet	ter
Engineer verified logged in general acc Dynamic sampled between 1.0 m and 5 SPT taken from 5.0 m to 5.45 m bgl. Hole terminated in superficial clay depo Groundwater was encountered at 1.2 m No visual or olfactory evidence of conta Backfilled with arisings.	5.0 m bgl. sits. i bgl.				Date 11/07/20	Т	ïme De	epth Strike 1.20 m		Depth Water De		
Coordinates: Ele	vation (mAOD):	Drilled By	/:		Plant U	sed:		L	ogged:	Checked: Ap	proved: Sca	ale
E373681.60 N436301.52	56.62		rth Engin	eering			Geote		MB			1::

A		3 Henley W	ead Office ay, Doddingto oln, LN6 3QF		Project	18	-0880	6.03		Hole	D: DS	105	Page: 1 of 1
deltasimons Environment - Health & Safety - Sustainability		Tel: +44	(0) 1522 882 @deltasimor	2555	Project:		ither	oe Roa	ad,	Wha	alley		
Dynamic Sa	mpler Lo	og			Date:	11	/07/20	18		Client	trat Tru	fford Ho st	using
Description of Strata	Legend	Strata Depth	Strata Thickness	Reduced Level	Casing Diameter	Water	Sam	ple Detai	ls		Test Deta	ails	Backfill
	Logona	(m bgl)	(m)	(mAOD)	(mm)		Depth (m)	1	Ref	Depth (m)	Re	sults	
TOPSOIL: Brown slightly clayey fine to medium SAND with frequent rootlets.		- 0.25	(0.25)	54.60			0.00 - 0.25	ES	1				
Soft to firm brown slightly sandy CLAY. Sand is fine to medium.			(1.75)										
	<u></u> 	- - 2.00		52.84									
No recovery.			(1.00)	02:01									
Brown slightly clayey fine to coarse SAND		- - - 3.00		51.84									
with occasional gravel. Gravel is subrounded fine to coarse of natural lithologies. [DEVENSIAN TILL]		 	(1.00)	50.84		4.00							
Brown slightly clayey sandy GRAVEL. Sand is fine to coarse. Gravel is subangular to subrounded fine to coarse of natural lithologies. [DEVENSIAN TILL]			(1.00)			4.00	4.00 - 5.00	ES	2				
Borehole complete at 5.00 m bgl.		5.00 		49.84									
Remarks: 1. Engineer verified logged in general accordar 2. Dynamic sampled between 1.0 m and 5.0 m 3. Hole terminated in superficial gravel deposits 4. Groundwater was encountered at 4.0 m bgl. 5. No visual or olfactory evidence of contamina 6. Backfilled with arisings.	bgl. s.			<u> </u>	Date	Т	r Strike ime D	epth Strike 4.00 m	D		r Level	Borehole D	1
Coordinates: Elevation E373613.60 N436321.29 54	(mAOD): .84	Drilled By Ear	th Engin	eering	Plant U		Geote	ech		iged: RR	Checked: MB	Approved: RJS	Scale: 1:30

		3 Henley V	Head Office Way, Doddingt		Project	^{No:} 18	8-0886	5.03	Ho	le ID:	S106	Page: 1 of
deltasim Environment - Health & Safety - Sus		Tel: +4	coln, LN6 3QF 4 (0) 1522 882 fo@deltasimo	2555	Project:		ithero	be Roa	d, W	nalley		
Dyna	mic Sampler	Log			Date:	10	/07/20	18	Cli		rafford Ho rust	ousing
	_	Strata	Strata	Reduced	Casing		Samp	ole Details		Test D		
Description of Strata	Legend	l Depth (m bgl)	Thickness (m)	Level (mAOD)	Diameter (mm)	Water	Depth (m)	Type R		pth n)	Results	Back
DPSOIL: Brown slightly clayey gra te to coarse SAND. Gravel is suba subrounded fine to coarse of sand	ngular	- 0.25	(0.25)	64.21			0.00 - 0.25	ES				
oft to firm brown slightly sandy gra LAY. Sand is fine to medium. Grav ubangular to subrounded fine to co atural lithologies. DEVENSIAN TILL]	velly el is arse of		(1.75)	62.46			2.00 - 2.10	ES :		00 SF	PT(S) N=5 ,1/1,1,1,2) PT(S) N=17 ',7/6,4,3,4)	
LAY with frequent cobbles. Sand is nedium. Gravel is subangular to ubrounded fine to coarse of natural thologies. Cobbles rounded of mud th 3.0 m bgl: Becomes firm. At 4.7 m bgl: Becomes stiff. DEVENSIAN TILL]	s fine to	ماران می از این می از این از این می از این م این می از این می از ای	(2.70)				2.10			00 SF (3	PT(S) N=11 3,3/4,2,2,3) PT(S) N=14 3,6/3,3,4,4)	
		4.70		59.76						70 SF	T(C) N=26	
Borehole complete at 4.70 m b	g].	-							4.		₽T(S) N=36 6/7,8,10,11)	
emarks:						Wate	er Strike		w	ater Level	Borehole I	Diameter
Engineer verified logged in genera Dynamic sampled between 1.0 m SPT taken from 4.7 to 5.15 m bgl. Hole terminated in superficial clay Groundwater was not encountered No visual or olfactory evidence of Backfilled with arisings.	and 4.7 m bgl. deposits. d.				Date			epth Strike	Duratio		ater Depth Base	
oordinates:	Elevation (mAOD):	Drilled B		oorina	Plant U		Gast		.ogged:	Checked		
E373749.36 N436545.56	64.46	Ea	rth Engin	ieering		lopal	Geote	сп	MB	RJS	S RJS	1:3

		3 Henley W	lead Office /ay, Doddingto		Project	^{No:} 18	8-0886	6.03		Hole ID	DS1	07	Page: 1 of 1
deltasimo Environment - Health & Safety - Sustai		Tel: +44	oln, LN6 3QR (0) 1522 882 @deltasimon	2555	Project:		ithero	be Ro	ad,	Whal	lley		
Dynam	nic Sampler L	og			Date:	10	/07/20	18		Client:	Traff Trus	ford Hou	using
		Strata	Strata	Reduced	Casing		Samp	ole Deta	ils		Test Detai	ls	
Description of Strata	Legend	Depth (m bgl)	Thickness (m)	Level (mAOD)	Diameter (mm)	Water	Depth (m)	Туре		Depth (m)	Res	sults	Backfil
FOPSOIL: Brown slightly clayey fine to nedium SAND with frequent rootlets.		_ 	(0.30)	67.47			0.00 - 0.30	ES	1				
Soft orangish brown slightly sandy gra CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to coars natural lithologies. [DEVENSIAN TILL]		-	(1.10)							1.00		5) N=4 ,1,1,0)	
Firm brownish grey slightly silty sandy ravelly CLAY. Sand is fine to medium. Gravel is subrounded fine to coarse of atural lithologies.	×	 1.40 		66.37		1.40 🚽							
DEVENSIAN TILL]		-					2.00 - 2.10	ES	2	2.00		i) N=13 ,3,3,4)	
			(2.60)							3.00) N=14 ,3,3,4)	
	× ×	- - 4.00		63.77						4.00	0.07/0		
Medium dense to dense grey slightly c îne to coarse SAND. DEVENSIAN TILL]	layey		(1.00)							4.00) N=21 ,4,6,8)	
Borehole complete at 5.00 m bgl.		5.00		62.77						5.00		i) N=48 11,14,13)	
Remarks: . Engineer verified logged in general a	accordance with BS	5930:2014	5.			Wate	er Strike			Water L	_evel	Borehole D	iameter
2. Dynamic sampled between 1.0 m an	nd 5.0 m bgl.	2000.2010			Date 10/07/20			epth Strike 1.40 m	e D	uration [Depth Water	Depth Base	Diamete
 SPT taken from 5.0 m to 5.45 m bgl. Hole terminated in superficial sand d Groundwater was encountered at 1.4 No visual or olfactory evidence of co Backfilled with arisings. 	4 m bgl.	countered.											

				3 Henley W	ead Office ay, Doddingto oln, LN6 3QF	on Road	Project	18	8-0886	5.03		Hole ID	DS'	108	Page: 1 of 1
Dynamic Sampler Log Cases (non- base definition of Strats) Log of the light in order (non-base definition) Strats (non- base definition) Strats (non- base definition) Text Strats (non- non- non- (non- non- (non- non- (non- non-	Environment - Health & Safety - Sus	ONS stainability		Tel: +44	(0) 1522 882	2555	Project:		itherc	be Roa	d,	Wha	ley		
Description of Strate Legend Name (mm) Nam	Dyna	mic Sar	npler Lo	og			Date:	10	/07/20	18		Client:			using
Company Company <t< th=""><th>Description of Strata</th><th></th><th>Legend</th><th></th><th></th><th></th><th></th><th>Water</th><th></th><th>le Details</th><th>;</th><th></th><th>Test Deta</th><th>ils</th><th>Backfill</th></t<>	Description of Strata		Legend					Water		le Details	;		Test Deta	ils	Backfill
SAND. Series in some constant with series of the constant of th	-								(m)				Re	sults	
Sch to im bownish grey skiply sundy gave/LLAY State if in a to melinin correct or future if the to present correct or future if the topoles. (DEVENSION TILL) 1.00 85.89 Sch to im bownish grey skiply group subgravit to absorbed for to counted or status if theologies. Cobble: Govern and the topoles. (DEVENSION TILL) 1.00 85.89 Sift grey greently CLAY-wife frequent counted of fine to counted of introduces. Cobble: Govern and the topoles. (DEVENSION TILL) 2.00 65.89 Sift grey greently CLAY-wife frequent counted of fine to counted of introduces. Cobble: Govern and the topoles. (DEVENSION TILL) 2.00 65.89 Biotechic complete al 2.50 m bgt 1.00 85.39 2.20 ES 2 Biotechic complete al 2.50 m bgt 1.00 1.00 85.39 Development CLAY-wife frequent counted of mounted astronucled of mounted subconded fine to coarse of networks. 1.00 85.39 Development CLAY-wife frequent coarse of a status if the coarse of networks. 1.00 85.39 Development CLAY-wife frequent coarse of a status if the coarse of networks. 1.00 1.00 Development CLAY-wife frequent coarse of a status if the coarse of networks. 1.00 1.00 Development CLAY-wife frequent coarse of a status if the coarse of networks. 1.00 1.00 Development CLAY-wife	SAND. Sand is fine to coarse. Grave subangular to subrounded fine to co	el is		- - 0.25 -	(0.25)	67.64				ES	1				
Shif to Time bownish grey signify gravely (2.47 with frequent to submoded of cobles covered of muldione organises cobles rounded of muldione organises cobles rounded of muldione organises cobles covered of muldione organises (2.11, 1.13) (1.100)	gravelly CLAY. Sand is fine to mediu	m.		- - - -	(0.75)	66.90									
Stiff group gravely CLAY with frequent bubbes. Grave is bubanguar to bubbes. Grave is bubbes. The bubbes of the bubbes o	CLAY with occasional cobbles. Grav subangular to subrounded fine to co natural lithologies. Cobbles rounded mudstone.	el is arse of		1.00 	(1.00)	00.89						1.00			
cobbies: Grave is subangular to subconded fine coarse of natural inhologes. Cobbies rounded of mudstore and sandstore. (0.50) (0.50) (0.50) ES 2 ES 2 (1.13.4.40.12) Boardole complete at 2.50 m bgl. 2.50 65.39 65.39 ES 2 ES 2 (1.13.4.40.12) Boardole complete at 2.50 m bgl. Image: Cobbies and the sandstore comple	Stiff arey gravelly CLAY with frequer	nt	<u> </u>	2.00		65.89						2.00			
Remarks: Veter Strike Veter Strike Veter Strike Veter Veter Strike Duration Remarks: Part User: Logget Depth Veter Depth Strike Duration Depth Veter Depth Strike Duration 2. SPT Internation 2.0 m bg1	cobbles. Gravel is subangular to subrounded fine to coarse of natural lithologies. Cobbles rounded of mud and sandstone. [DEVENSIAN TILL]	stone	• •	- - - 2.50	(0.50)	65.39		2.40		ES	2		(1,1/3,	2,20,12)	
1. Engineer verified logged in general accordance with BS 5930:2015. 2. Dynamic sampled between 1.0 m and 2.5 m bgl. 3. SPT taken from 2.0 m bgl. 4. Hole terminated in superficial clay deposits. 5. Groundwater was encountered at 2.4 m bgl. 5. No visual or olfactory evidence of contamination was encountered. 7. Backfilled with arisings. Coordinates: Elevation (mAOD): Drilled By:															
3. SPT taken from 2.0 m bgl. 1.0/07/2018 2.40 m 1.0/07/2018 2.40 m 4. Hole terminated in superficial clay deposits. 10/07/2018 2.40 m 1.0/07/2018 1.0/07/2018 5. Groundwater was encountered at 2.4 m bgl. 1.0/07/2018 2.40 m 1.0/07/2018				5930:2015	I i.	<u> </u>									1
	 SPT taken from 2.0 m bgl. Hole terminated in superficial clay Groundwater was encountered at 	deposits. 2.4 m bgl.	-	countered.						-	Du	ration [pepth Water	Depth Base	Diameter
E373865.76 N436426.96 67.89 Earth Engineering Global Geotech RR MB RJS 1:3	Coordinates:					oorina			Gasta						Scale: 1:30

A		3 Henley W	lead Office /ay, Doddingto coln, LN6 3QF		Project	18	-0886	6.03		Hole ID	DS	110	Page: 1 of 1
deltasimons Environment - Health & Safety - Sustainabilit		Tel: +44	(0) 1522 882 @deltasimor	2555	Project:		ithero	be Roa	d, V	Nhal	ley		
Dynamic S	ampler L	og			Date:	10	/07/20	18		Client: Trafford Hous Trust			
Description of Strata	Legend	Strata	Strata	Reduced	Casing	Water	Sample Details			Tes		est Details	
·	Legena	Depth (m bgl)	Thickness (m)	Level (mAOD)	Diameter (mm)	water	Depth (m)	Type R	ei	Depth (m)	Res	sults	Backfi
FOPSOIL: Brown slightly clayey fine to coarse SAND with frequent rootlets.		_	(0.40)				0.00 - 0.40	ES ´					
		0.40		69.28									
Firm dark brown slightly sandy CLAY. Sand s fine to coarse.													
DEVENSIAN TILL]		-	(0.60)										
		_											
oft to firm dark brown slightly silty sandy		1.00		68.68		1.00 🔻				1.00		S) N=5 ,1,1,2)	, . .
ravelly CLAY. Sand is fine to coarse. Gravel is subangular to subrounded fine to		-									(0,0/1	,1,1, ∠)	
oarse of natural lithologies. t 4.0 m bgl: Becomes stiff.		_											
etween 4.1 m bgl and 4.8 m bgl: Becomes oft.													
t 5.0 m bgl: Becomes very stiff. DEVENSIAN TILL]	××	-											
		_											
	× × ×	-								2.00		S) N=11	
	× · · · ×	_									(1,4/3	,2,3,3)	
		-											
	××	_					2.50 -	ES 2	2				
	×	-					2.60						
		-											
	×— –×–	_	(4.00)							2 00	CDT/	S) N=9	
		-	(4.00)							3.00		S) N=9 2,2,2,3)	
		_											
		-											
		_											
	××	-											
		-											
	××	_								4.00		6) N=16 5,3,4,6)	
	× × ×	-									(2,2/0	,,,,,,,,)	
	× × ×	_											
		_											
		_											
		-											
Borehole complete at 5.00 m bgl.	××-	5.00		64.68						5.00		(S) 50	
bolenole complete at 5.00 m bgi.		_										/50 for mm)	
		_										/	
		-											
		-											
Remarks: 1. Engineer verified logged in general accordance with BS 5930:2015.							r Strike			Water L		Borehole D	
2. Dynamic sampled between 1.0 m and 5.0 m bgl. 3. SPT taken from 5.0m to 5.45m bgl.					Date 10/07/20		ime De	epth Strike 1.00 m	Dura	ation D	epth Water	Depth Base	Diame
4. Hole terminated in superficial clay deposits. 5. Groundwater was encountered at 1.0 m bgl.													
. No visual or olfactory evidence of contami . Backfilled with arisings.		countered.											
. Sastanioa mar anonigo.													
	on (mAOD):	Drilled By			Plant Used:				ogge			Approved:	Scale:
E373802.97 N436594.82	9.68	Ear	th Engin	eering	Global Geotech					B	RJS	RJS	1:30

		3 Henley	Head Office Way, Doddingt Icoln, LN6 3QF		Project	18	8-0886	5.03		Hole II	D: DS	111	Page: 1 of
deltasim Environment - Health & Safety - Sus		Tel: +4	14 (0) 1522 882 fo@deltasimo	2555	Project:		lither	oe Roa	ad,	Wha	lley		
Dynamic Sampler Log					Date: 10/07/2018					Client:	Traf Trus	ford Ho st	using
Description of Strate	Lanan	Strata	Strata	Reduced Level	Casing	Water	Sample Details				Test Deta	ils	Back
Description of Strata	Legen	d Depth (m bgl)	Thickness (m)	(mAOD)	Diameter (mm)	water	Depth (m)		Ref	Depth (m)	Re	sults	Баск
OPSOIL: Brown slightly clayey fine coarse SAND with frequent rootlets.		0.30	(0.30)	73.29			0.00 - 0.30	ES	1				
Firm greyish orangish brown slightly gravelly CLAY with occasional lamin Sand is fine to coarse. At 2.0 m bgl: Becomes soft. DEVENSIAN TILL]			(2.30)				1.30 - 1.40	ES	2	1.00	(2,2): SPT(S) N=11 3,2,3,3) (S) N=6 2,1,1,2)	
Firm brown sandy gravelly CLAY. Sa	2010 - 2010 - 2 - 2 - 2 - 2 - 2 - 2 - 2 - 2	2.60		70.99		2.40							
ne to coarse. Gravel is subrounded nedium of sandstone. DEVENSIAN TILL]			(0.80)	70.40			2.70 - 2.80	ES	3	3.00		(S) N=9 2,2,2,3)	
Firm to stiff grey slightly gravelly CL hin (0. 1m) bands of coarse gravelly Gravel is subrounded fine to coarse natural lithologies. At 4.4 m bgl: becomes gravelly with requent cobbles. Gravel and cobble subangular to subrounded fine to co andstone. DEVENSIAN TILL]	y sand. of		(1.20)	70.19			3.50 - 3.60	ES	4	4.00		S) N=21 3,4,7,7)	
Borehole complete at 4.60 m bo	gl.	- - - - -		68.99						4.60	10mr	50 (25 for n/50 for mm)	
omatke:									1			Burnit	
Remarks: 1. Engineer verified logged in general accordance with BS 5930:2015. 2. Dynamic sampled between 1.0 m and 4.6 m bgl. 3. SPT taken from 4.6 m to 5.05 m bgl. 4. Hole terminated in superficial clay deposits. 5. Groundwater was encountered at 2.4 m bgl. 6. No visual or olfactory evidence of contamination was encountered. 7. Backfilled with arisings.				Date 10/07/20	Т	r Strike	epth Strike 2.40 m	D	Water	Level Depth Water	Borehole D		
oordinates:	Elevation (mAOD):	Drilled E			Plant Used: Archway Dart					-	Checked:	Approved:	Scale:
E373871.84 N436543.12	73.59	E Fa	rth Engin	eerina					1 1	MB	RJS	RJS	1:3

Contract (m k b0) (m) (m k b0) (m) (m k b0) (m) (m k b0) (m k b0) </th <th></th> <th></th> <th>3 Henley W</th> <th>Head Office</th> <th></th> <th>Project</th> <th>18</th> <th>8-0886</th> <th>6.03</th> <th>Hole</th> <th>ID: DS</th> <th>112</th> <th>Page: 1 of 1</th>			3 Henley W	Head Office		Project	18	8-0886	6.03	Hole	ID: DS	112	Page: 1 of 1
Dynamic Sampler Log True True </th <th colspan="6"></th> <th></th> <th>lither</th> <th>be Roa</th> <th>d, Wha</th> <th>alley</th> <th></th> <th></th>								lither	be Roa	d, Wha	alley		
Description of Strats Legond Description (m) Vector (m) Vector (m) Vector (m) Vector (m) Description (m) Results Backfit 10PS-00L Excon sliption days (m to in- cases: SAMD with samp) CLAL: Same if the to cases. 0.00 (0.20) 0.00 ES 1 0.00 ES 1 1 0.00 ES 1 1 0.00 ES 1 1 0.00 ES 1 1 1 0.00 ES 1 <td< th=""><th>Dyna</th><th>mic Sampler L</th><th>.og</th><th></th><th></th><th>Date:</th><th>11</th><th>/07/20</th><th>18</th><th>Clier</th><th></th><th></th><th>using</th></td<>	Dyna	mic Sampler L	.og			Date:	11	/07/20	18	Clier			using
Contract: (m kg) (m) (m kg) (m) (m kg) (m) (m kg) (m) (m kg)	Description of Strata	Legend				Diameter	Water	-		_			Backfill
counter Sum with requert motells. 0.20 (0.20)				(m bgl) (m)				(m)		er (m)		sults	
If the Vision Campion and comparison of the Company of the Compan	coarse SAND with frequent rootlets.		0.20	(0.20)	69.48			0.20					
Firm brownish grey slightly sandy gravelity Sand is fhe to coarse. Gravel is subangular bis subounded into to coarse of natural bis subounded into to coarse of natural bis subounded into coarse of natural bis subounded in subounded into coarse of natural bis subounded in subounded in subounded into coarse with BS subounded into coarse of natural bis subounded in subounded in subounded in subounded into coarse of natural bis subounded in subounded in subounded in subounded in the subounded into coarse of natural	CLAY. Sand is fine to coarse.	andy		(1.80)									
Borehole complete at 5.00 m bgl. 5.00 64.68 Borehole complete at 5.00 m bgl. 5.00 64.68 Serialistic sampled between 2.4 m and 6.0 m bgl. 5.00 m bgl. 5.00 m bgl. 1 Hold perinder was encountered at 2.4 m bgl. 1 Hold perinder was encountered. 1 Hold perinder was encountered. 7. Backfilled with arisings. Evaluation was encountered. 2 Hourison 2 Hourison Depth Strike Duration Depth Bare Bernet Coordinates: Elevation (mAOD): Dilled By: Plant Used: Longed: Coeped: Strike Longed: Coeped: Strike Longed: Keter Strike Longed: Keter Strike Strike Despin Bare Bernetol	CLAY with occasional mudstone cobl Sand is fine to coarse. Gravel is suba to subrounded fine to coarse of natur lithologies.	oles.	2.00		67.68		2.40			2.00			
Borehole complete at 5.00 m bgl. 5.00 64.68 Borehole complete at 5.00 m bgl. 5.00 64.68 Remarks: 5.00 64.68 1: Engineer verified logged in general accordance with BS 5930:2015. 5.00 2: SPT take from 5.0 m bgl. 5.00 3: SPT take from 5.0 m bgl. 5.00 1: Engineer verified logged in general accordance with BS 5930:2015. 2.01 2: Optimic sampled between 2.4 m and 5.0 m bgl. 3.97 taken from 5.0 m to 5.45 m bgl. 4: Hole terminated in superficial clay deposits. Coordinater was encountered at 2.4 m bgl. 5: Groundwater was encountered at 2.4 m bgl. 2.40 m 6: No visual or offactory evidence of contamination was encountered. Plant Used: Logged: Checket: Approved: Scale:				(3.00)						3.00) SPT(: (2,3/:	S) N=13 3,3,3,4)	
Borehole complete at 5.00 m bgl. Image: Second										4.00			
Remarks: -<	Borehole complete at 5.00 m bg	<u> </u>	5.00		64.68					5.00			
2. SPT taken from 5.0 m to 5.45 m bgl. 3. SPT taken from 5.0 m to 5.45 m bgl. 4. Hole terminated in superficial clay deposits. 5. Groundwater was encountered at 2.4 m bgl. 6. No visual or olfactory evidence of contamination was encountered. 7. Backfilled with arisings. Coordinates: Elevation (mAOD): Drilled By: Plant Used: Logged: Checked: Approved: Scale:	 Engineer verified logged in general 		- - - - - - - - - - - - - - - - - - -	5.		Dota			enth Strike		r Level	Borehole D	1
	 Dynamic sampled between 2.4 m and 5.0 m bgl. SPT taken from 5.0 m to 5.45 m bgl. Hole terminated in superficial clay deposits. Groundwater was encountered at 2.4 m bgl. No visual or olfactory evidence of contamination was encountered. 								-	Duration		рерит вазе	
					eering			way Da					Scale: 1:30

		Head Office 3 Henley Way, Doddington Road	Project N	Project No: 18-0886.03 Hole ID:					TP101		Page: 1 of 1
		Lincoln, LN6 3QR Tel: +44 (0) 1522 882555 Email: info@deltasimons.com	Project:	Clithe	eroe F	Road,	Wha	lley			
	Trial Pit Log		Date:	Date: 11/07/2018					affor ust	d Hou	ising
			Strata	Reduced		Samp	ple Details		Test Details		ails
Description of \$		Legend	Depth (m)	Level (mAOD)	Strike (m)	Depth (m)	Туре	Type Ref Dept (m)		Re	sults
TOPSOIL: Brown slightly clayey fine			- - 0.25	53.46							
Soft brown slightly sandy slightly gra subrounded fine to coarse of natural [DEVENSIAN TILL]	velly CLAY. Gravel is lithologies.		- - - - - - - - - - - - - - - - - - -	52.20							
Dark brown slightly clayey sandy sub fine to coarse GRAVEL of mudstone lithologies. Frequent cobbles. [DEVENSIAN TILL]		ar 			2.00						
Trial pit complete at 3	3.00 m bgl.		3.00	50.70	3.00 🚽	3.00	В	1			
Dimensions and Orientation: Width = 0.80 m	 Remarks: 1. Engineer verified logged in general accordance with BS 5930:2015. 2. Area cleared for services prior to excavations. 3. Groundwater encountered at 3.0 m during excavation. 4. No visual or olfactory evidence of contamination was encountered. 5. Hole terminated at 3.0 m due to instability. 6. Hole backfilled with arisings in reverse order of excavation. 										
Coordinates: E373592.00 N436237.00							iged: RR	Checked MB		roved: RJS	Scale: 1:30