








Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2) Engineer WATERMAN INFRASTRUCTURE & ENVIRONMENT LIMITED Trial Pit TP839 Project No PC207899

Client GRAVEN HILL VILLAGE DEVELOPMENT COMPANY LIMITED National Grid Coordinates 459318.2 E 219886.1 N Ground Level 66.96 m OD

Samples and Tests				Strata	Scale 1:50		
Depth	Type	Stratum No	Results	Description	Depth	Legend	Level m OD
0.10	ES		PID=<0.1	MADE GROUND: Asphalt.	G.L.		66.96
0.10					0.17		66.79
0.20	ES		PID=<0.1	MADE GROUND: Light yellowish brown gravelly slightly silty sand. Gravel is angular to subangular fine to coarse limestone and brick.	0.40		66.56
0.20							
0.40	B			Between 0.20-0.25m, a layer of black sandy silt.	0.90		66.06
0.40	B						
0.90	HV		Av=50kPa	PROBABLE MADE GROUND: Grey slightly sandy gravel with a high cobble and boulder content of angular to subangular medium strong limestone.			
1.00	B						
1.00	B		mc=42%				
1.00	D						
1.00	ES		PID=<0.1	Firm light grey and brown slightly sandy CLAY.			
1.00							
1.50	D			Below 1.30m, becoming light grey mottled orangish brown.	1.95		65.01
1.50	ES		Av=61kPa				
1.50	HV		PID=<0.1	Stiff dark brown slightly sandy CLAY			
1.50			Av=52kPa				
1.80	HV						
1.90	D			Below 2.30m, becoming very stiff.			
2.10	B						
2.10	B						
2.10	D		mc=34%				
2.60	D						
				End of Excavation	3.00		63.96

Excavation				Groundwater		
Plant	JCB 3CX	Width (B)	0.60	Depth Observed	Depth of Pit	Details
Date	14/04/2020	Length (C)	1.90			
Shoring	None.	Orientation	216 deg	0.45	0.45	Fast seepage.
Stability	Stable during excavation.					
		Date Backfilled	14/07/2020			

Remarks	ES sample = 2 x vial, 1 x plastic jar and 2 amber jar	Logged by	MJ
	Radioactive screening at discrete sample depths, using a Thermo Scientific Mini 900E. No activity detected.	Figure	1 of 1
	Backfill details from base of hole: arisings up to ground level.		06/11/2020
Symbols and abbreviations are explained on the accompanying key sheet.			
All dimensions are in metres.	Logged in accordance with BS5930:2015		

Form REP002 Rev 4

C.**In-Situ Test Results**

In-situ CBR Test Results (TRL DCP)

Soakaway Test Results

In Situ Testing - Dynamic Cone Penetration Test

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Location No. RC804

Client Graven Hill Village Development Company Limited

Project No. PC207899

Coordinates 459530.0 E, 220018.2 N

Ground Level 66.76 m OD

Test No. 1

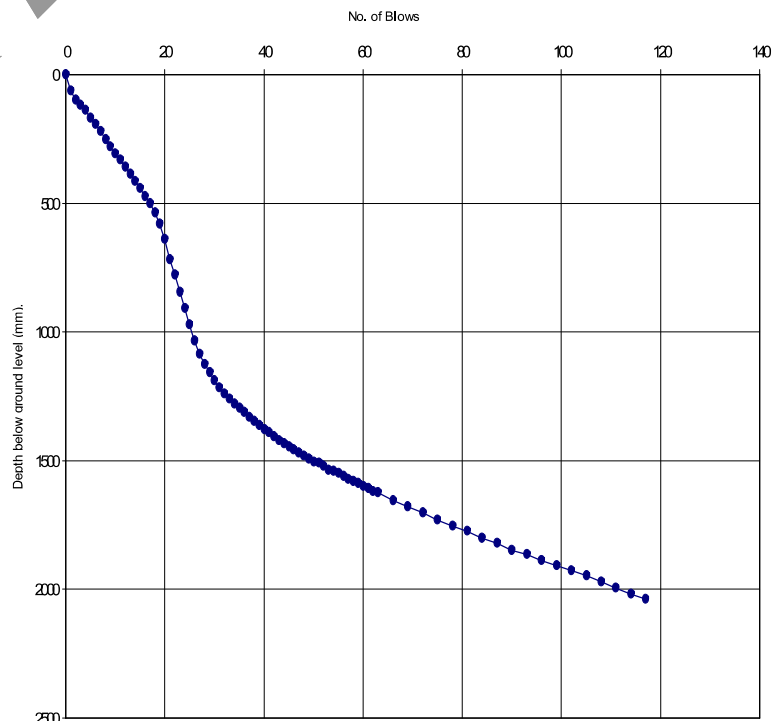
Test Date 24/07/2020

Blows No.	Blows Total	Rod No.	Reading (mm)	Corrected Depth (mm)	Blows No.	Blows Total	Rod No.	Reading (mm)	Corrected Depth (mm)	Blows No.	Blows Total	Rod No.	Reading (mm)	Corrected Depth (mm)
0	0	1	115	0	1	21	1	833	718	1	42	2	727	1405
1	1	1	180	65	1	22	2	100	778	1	43	2	743	1421
1	2	1	212	97	1	23	2	166	844	1	44	2	755	1433
1	3	1	234	119	1	24	2	230	908	1	45	2	766	1444
1	4	1	255	140	1	25	2	293	971	1	46	2	780	1458
1	5	1	283	168	1	26	2	357	1035	1	47	2	791	1469
1	6	1	310	195	1	27	2	410	1088	1	48	2	803	1481
1	7	1	337	222	1	28	2	447	1125	1	49	2	814	1492
1	8	1	366	251	1	29	2	481	1159	1	50	2	827	1505
1	9	1	395	280	1	30	2	511	1189	1	51	2	832	1510
1	10	1	423	308	1	31	2	537	1215	1	52	3	50	1520
1	11	1	447	332	1	32	2	561	1239	1	53	3	65	1535
1	12	1	474	359	1	33	2	582	1260	1	54	3	70	1540
1	13	1	503	388	1	34	2	601	1279	1	55	3	80	1550
1	14	1	531	416	1	35	2	619	1297	1	56	3	91	1561
1	15	1	559	444	1	36	2	635	1313	1	57	3	101	1571
1	16	1	587	472	1	37	2	654	1332	1	58	3	110	1580
1	17	1	616	501	1	38	2	669	1347	1	59	3	118	1588
1	18	1	652	537	1	39	2	685	1363	1	60	3	130	1600
1	19	1	697	582	1	40	2	699	1377	1	61	3	138	1608
1	20	1	753	638	1	41	2	713	1391	1	62	3	148	1618

Test Started at	0.00 m
Operator	EPS
Checked by	TNH

Rod No.	Zero Reading (mm)
1	115
2	40
3	40

Depth bgl (mm) Top	Base	Blows No. Top	Base	DCP mm/blow	CBR %
0	65	0	1	65	3.7
65	280	1	9	27	9.3
65	280	9	18	24	10.5
537	778	18	22	60	4.0
778	1125	22	28	58	4.1
1125	1239	28	32	29	8.8
1239	1405	32	42	17	15.5
1405	1540	42	54	11	23.4
1540	1800	54	84	9	30.8
1800	2039	84	117	7	37.2



Remarks

CBR estimated using correlation in Highways Agency Interim Advice Note 73/06 Rev 1 (2009).

Printed: 28/09/2020

GEOTECHNICS



In Situ Testing - Dynamic Cone Penetration Test

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Location No. RC804

Client Graven Hill Village Development Company Limited

Project No. PC207899

Coordinates 459530.0 E, 220018.2 N

Ground Level 66.76 m OD

Test No. 1

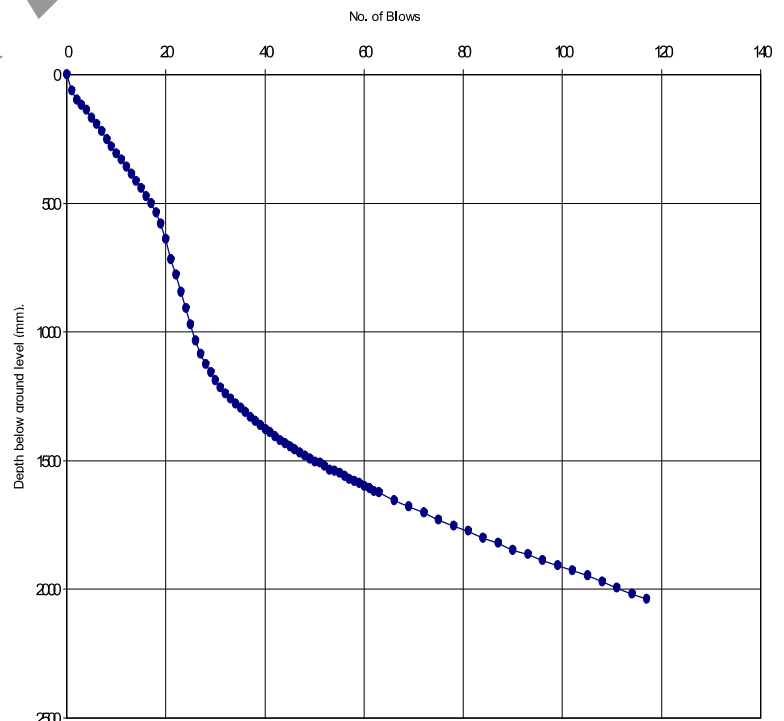
Test Date 24/07/2020

Blows No.	Blows Total	Rod No.	Reading (mm)	Corrected Depth (mm)
1	63	3	154	1624
3	66	3	183	1653
3	69	3	210	1680
3	72	3	234	1704
3	75	3	259	1729
3	78	3	284	1754
3	81	3	305	1775
3	84	3	330	1800
3	87	3	352	1822
3	90	3	378	1848
3	93	3	396	1866
3	96	3	416	1886
3	99	3	437	1907
3	102	3	458	1928
3	105	3	479	1949
3	108	3	502	1972
3	111	3	524	1994
3	114	3	547	2017
3	117	3	569	2039

Test Started at	0.00 m
Operator	EPS
Checked by	TNH

Rod No.	Zero Reading (mm)
1	115
2	40
3	40

Depth bgl (mm) Top	Base	Blows No. Top	Base	DCP mm/blow	CBR %
0	65	0	1	65	3.7
65	280	1	9	27	9.3
65	280	9	18	24	10.5
537	778	18	22	60	4.0
778	1125	22	28	58	4.1
1125	1239	28	32	29	8.8
1239	1405	32	42	17	15.5
1405	1540	42	54	11	23.4
1540	1800	54	84	9	30.8
1800	2039	84	117	7	37.2



Remarks

CBR estimated using correlation in Highways Agency Interim Advice Note 73/06 Rev 1 (2009).

Printed: 28/09/2020

GEOTECHNICS



In Situ Testing - Dynamic Cone Penetration Test

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Location No. RC807

Client Graven Hill Village Development Company Limited

Project No. PC207899

Coordinates 459203.9 E, 219929.9 N

Ground Level 69.27 m OD

Test No. 1

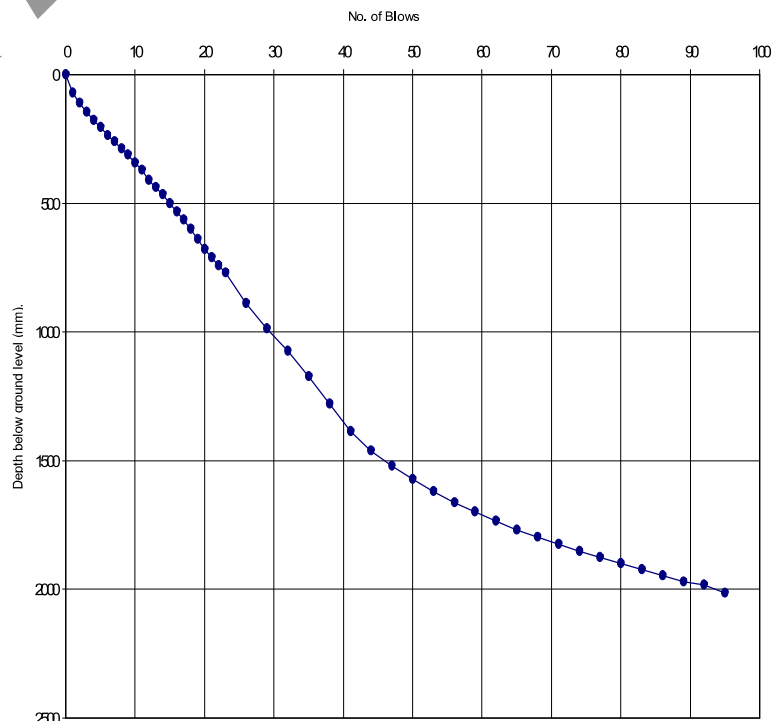
Test Date 31/07/2020

Blows No.	Blows Total	Rod No.	Reading (mm)	Corrected Depth (mm)	Blows No.	Blows Total	Rod No.	Reading (mm)	Corrected Depth (mm)	Blows No.	Blows Total	Rod No.	Reading (mm)	Corrected Depth (mm)
0	0	1	115	0	1	21	1	825	710	3	80	3	826	1900
1	1	1	185	70	1	22	1	856	741	3	83	3	851	1925
1	2	1	226	111	1	23	2	97	772	3	86	3	875	1949
1	3	1	260	145	3	26	2	212	887	3	89	3	896	1970
1	4	1	293	178	3	29	2	313	988	3	92	3	910	1984
1	5	1	321	206	3	32	2	401	1076	3	95	3	940	2014
1	6	1	350	235	3	35	2	498	1173					
1	7	1	376	261	3	38	2	606	1281					
1	8	1	403	288	3	41	2	711	1386					
1	9	1	428	313	3	44	2	788	1463					
1	10	1	458	343	3	47	2	845	1520					
1	11	1	488	373	3	50	3	497	1571					
1	12	1	527	412	3	53	3	544	1618					
1	13	1	553	438	3	56	3	587	1661					
1	14	1	583	468	3	59	3	625	1699					
1	15	1	616	501	3	62	3	659	1733					
1	16	1	647	532	3	65	3	694	1768					
1	17	1	679	564	3	68	3	723	1797					
1	18	1	716	601	3	71	3	750	1824					
1	19	1	755	640	3	74	3	778	1852					
1	20	1	794	679	3	77	3	803	1877					

Test Started at	0.00 m
Operator	EPS
Checked by	TNH

Rod No.	Zero Reading (mm)
1	115
2	66
3	446

Depth bgl (mm) Top	Base	Blows No. Top	Base	DCP mm/blow	CBR %
0	111	0	2	111	2.1
111	373	2	11	29	8.6
373	772	11	23	33	7.4
772	988	23	29	36	6.8
988	1173	29	35	31	8.1
1173	1386	35	41	36	6.9
1386	1520	41	47	22	11.3
1520	1661	47	56	16	16.5
1661	1797	56	68	11	23.2
1797	2014	68	95	8	33.4



Remarks

CBR estimated using correlation in Highways Agency Interim Advice Note 73/06 Rev 1 (2009).

Printed: 28/09/2020

GEOTECHNICS



In Situ Testing - Dynamic Cone Penetration Test

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Location No. RC808

Client Graven Hill Village Development Company Limited

Project No. PC207899

Coordinates 459229.2 E, 219850.0 N

Ground Level 66.57 m OD

Test No. 1

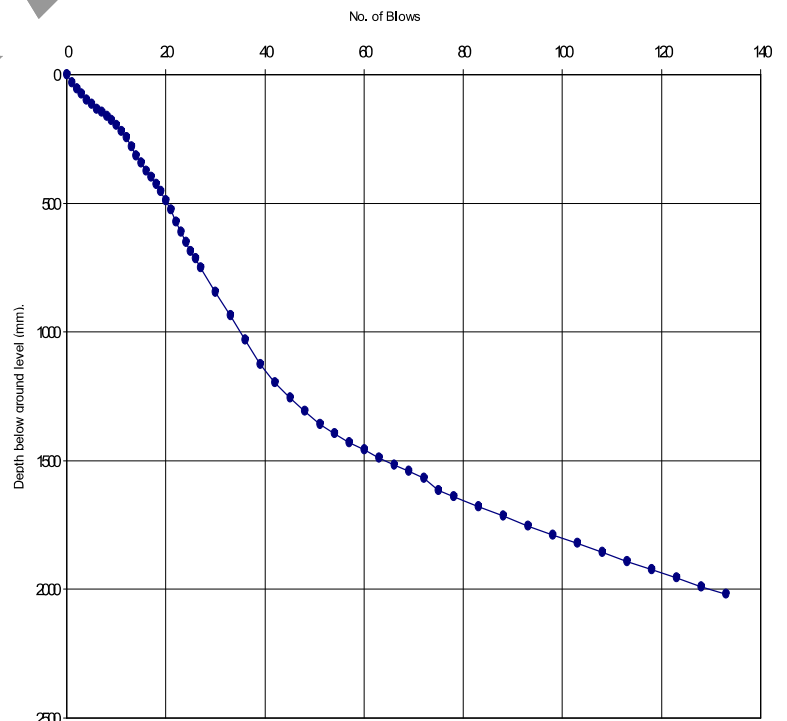
Test Date 31/07/2020

Blows No.	Blows Total	Rod No.	Reading (mm)	Corrected Depth (mm)	Blows No.	Blows Total	Rod No.	Reading (mm)	Corrected Depth (mm)	Blows No.	Blows Total	Rod No.	Reading (mm)	Corrected Depth (mm)
0	0	1	110	0	1	21	1	636	526	3	72	3	468	1566
1	1	1	140	30	1	22	1	681	571	3	75	3	517	1615
1	2	1	166	56	1	23	1	722	612	3	78	3	541	1639
1	3	1	187	77	1	24	1	761	651	5	83	3	580	1678
1	4	1	209	99	1	25	1	797	687	5	88	3	618	1716
1	5	1	225	115	1	26	1	826	716	5	93	3	654	1752
1	6	1	244	134	1	27	1	860	750	5	98	3	690	1788
1	7	1	258	148	3	30	2	146	845	5	103	3	724	1822
1	8	1	271	161	3	33	2	238	937	5	108	3	759	1857
1	9	1	286	176	3	36	2	333	1032	5	113	3	792	1890
1	10	1	308	198	3	39	2	428	1127	5	118	3	826	1924
1	11	1	330	220	3	42	2	497	1196	5	123	3	858	1956
1	12	1	355	245	3	45	2	558	1257	5	128	3	894	1992
1	13	1	392	282	3	48	2	610	1309	5	133	3	920	2018
1	14	1	425	315	3	51	2	658	1357					
1	15	1	452	342	3	54	2	694	1393					
1	16	1	484	374	3	57	2	730	1429					
1	17	1	507	397	3	60	2	760	1459					
1	18	1	535	425	3	63	2	788	1487					
1	19	1	566	456	3	66	2	818	1517					
1	20	1	598	488	3	69	2	842	1541					

Test Started at	0.00 m
Operator	EPS
Checked by	TNH

Rod No.	Zero Reading (mm)
1	110
2	51
3	443

Depth bgl (mm) Top	Base	Blows No. Top	Base	DCP mm/blow	CBR %
0	115	0	5	23	11.0
115	198	5	10	17	15.5
198	425	10	18	28	8.8
425	750	18	27	36	6.8
750	1195	27	42	30	8.4
1195	1356	42	51	18	14.3
1356	1428	51	57	12	21.8
1428	1565	57	72	9	29.1
1565	1614	72	75	16	15.8
1614	2017	75	133	7	38.9



Remarks

CBR estimated using correlation in Highways Agency Interim Advice Note 73/06 Rev 1 (2009).

Printed: 28/09/2020

GEOTECHNICS



In Situ Testing - Dynamic Cone Penetration Test

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Location No. RC809

Client Graven Hill Village Development Company Limited

Project No. PC207899

Coordinates 459280.9 E, 219766.1 N

Ground Level 66.22 m OD

Test No. 1

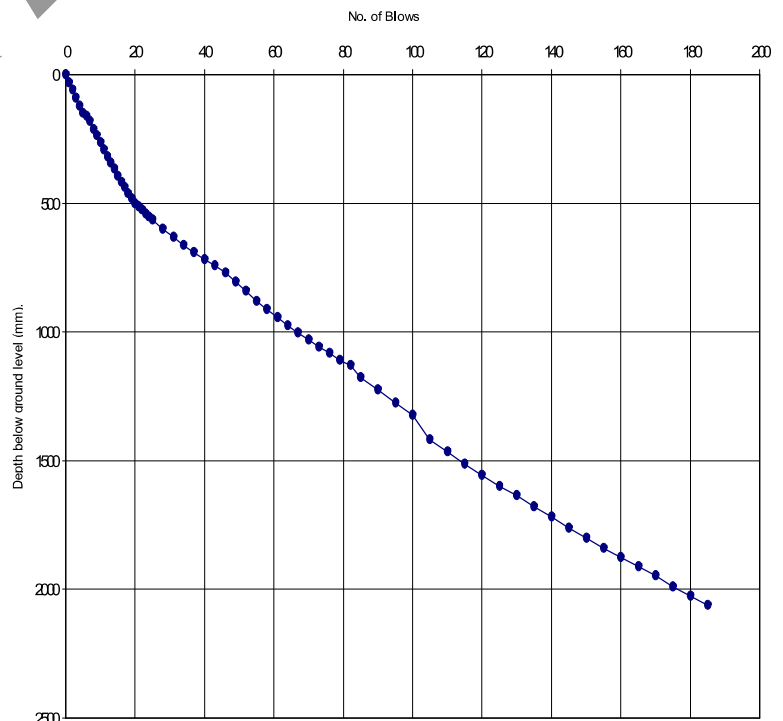
Test Date 07/08/2020

Blows No.	Blows Total	Rod No.	Reading (mm)	Corrected Depth (mm)	Blows No.	Blows Total	Rod No.	Reading (mm)	Corrected Depth (mm)	Blows No.	Blows Total	Rod No.	Reading (mm)	Corrected Depth (mm)
0	0	1	140	0	1	21	1	654	514	3	76	2	388	1084
1	1	1	172	32	1	22	1	667	527	3	79	2	412	1108
1	2	1	201	61	1	23	1	681	541	3	82	2	434	1130
1	3	1	229	89	1	24	1	692	552	3	85	2	479	1175
1	4	1	263	123	1	25	1	704	564	5	90	2	528	1224
1	5	1	292	152	3	28	1	739	599	5	95	2	580	1276
1	6	1	301	161	3	31	1	772	632	5	100	2	629	1325
1	7	1	321	181	3	34	1	802	662	5	105	2	723	1419
1	8	1	353	213	3	37	1	830	690	5	110	2	771	1467
1	9	1	378	238	3	40	1	859	719	5	115	2	816	1512
1	10	1	404	264	3	43	1	883	743	5	120	2	862	1558
1	11	1	432	292	3	46	1	910	770	5	125	2	905	1601
1	12	1	459	319	3	49	2	109	805	5	130	2	941	1637
1	13	1	485	345	3	52	2	146	842	5	135	3	514	1679
1	14	1	509	369	3	55	2	183	879	5	140	3	554	1719
1	15	1	534	394	3	58	2	217	913	5	145	3	595	1760
1	16	1	557	417	3	61	2	246	942	5	150	3	634	1799
1	17	1	580	440	3	64	2	279	975	5	155	3	674	1839
1	18	1	602	462	3	67	2	307	1003	5	160	3	711	1876
1	19	1	623	483	3	70	2	336	1032	5	165	3	746	1911
1	20	1	642	502	3	73	2	361	1057	5	170	3	784	1949

Test Started at	0.00 m
Operator	EPS
Checked by	TNH

Rod No.	Zero Reading (mm)
1	140
2	74
3	472

Depth bgl (mm) Top	Base	Blows No. Top	Base	DCP mm/blow	CBR %
0	502	0	20	25	10.0
502	632	20	31	12	22.2
632	743	31	43	9	28.8
743	1003	43	67	11	24.3
1003	1325	67	100	10	27.2
1325	1419	100	105	19	13.6
1419	1601	105	125	9	29.3
1601	2060	125	185	8	35.2



Remarks

CBR estimated using correlation in Highways Agency Interim Advice Note 73/06 Rev 1 (2009).

Printed: 28/09/2020

GEOTECHNICS



In Situ Testing - Dynamic Cone Penetration Test

Project GRAVEN HILL, BICESTER, LAND TRANSFER AREA 2 (LTA2)

Location No. RC809

Client Graven Hill Village Development Company Limited

Project No. PC207899

Coordinates 459280.9 E, 219766.1 N

Ground Level 66.22 m OD

Test No. 1

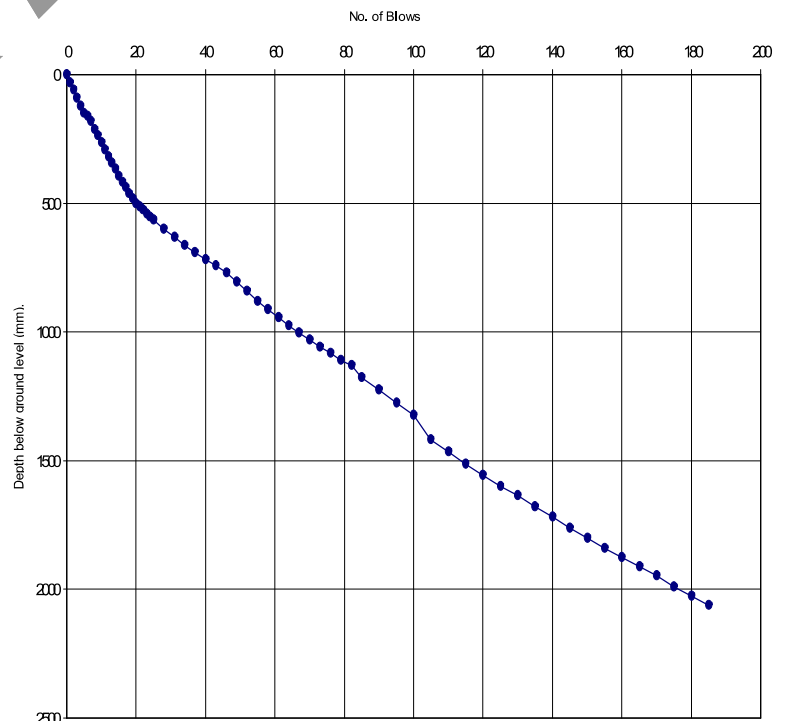
Test Date 07/08/2020

Blows No.	Blows Total	Rod No.	Reading (mm)	Corrected Depth (mm)
5	175	3	824	1989
5	180	3	861	2026
5	185	3	895	2060

Test Started at	0.00 m
Operator	EPS
Checked by	TNH

Rod No.	Zero Reading (mm)
1	140
2	74
3	472

Depth bgl (mm) Top	Base	Blows No. Top	Base	DCP mm/blow	CBR %
0	502	0	20	25	10.0
502	632	20	31	12	22.2
632	743	31	43	9	28.8
743	1003	43	67	11	24.3
1003	1325	67	100	10	27.2
1325	1419	100	105	19	13.6
1419	1601	105	125	9	29.3
1601	2060	125	185	8	35.2



Remarks

CBR estimated using correlation in Highways Agency Interim Advice Note 73/06 Rev 1 (2009).

Printed: 28/09/2020

GEOTECHNICS



Form INS009 Rev 7

Trial Pit	TP801
Test No	1
Project No	PC207899
Date	13/07/2020

The diagram illustrates a cross-section of a trial pit soakaway. It features a stepped profile with a horizontal section at the bottom. The ground level (GL) is indicated by a hatched line at the top. The water level (WL) is shown as a horizontal line within the pit. Two vertical dimensions are labeled: 'Total depth' for the full height of the pit and 'Effective depth' for the height from the WL to the bottom. A small inverted triangle symbol is located on the horizontal bottom section.

Trial pit length	=	3.700	m
Trial pit width	=	0.600	m
Trial pit depth	=	2.700	m
Effective depth (Head of Water)	=	1.450	m

Sheet 1

GEOTECHNICS

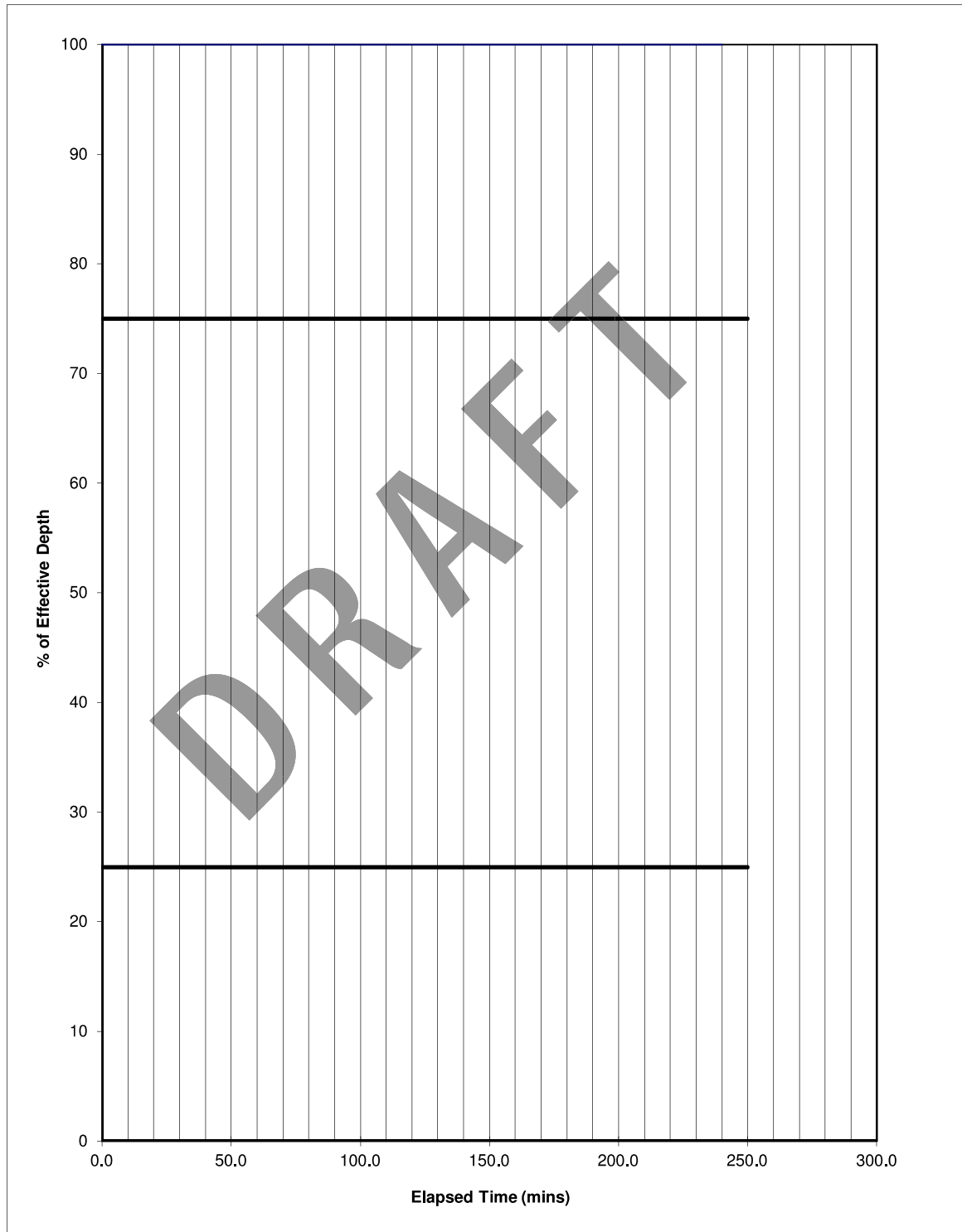
INSITU TESTING - Soakaway Test

Form INS009 Rev 7

Project Ground Investigation for Graven Hill, Bicester, Land Transfer Area 2 (LTA2)

Trial Pit TP801
Test No I
Project No PC207899
Date 13/07/2020

Client Graven Hill Village Development Company Limited



tp75	=
tp25	=

Sheet 2

Remarks *No infiltration rate calculated as no fall in the water level recorded.

Form INS009 Rev 7

Trial Pit	TP813
Test No	I
Project No	PC207899
Date	14/07/2020

The diagram illustrates a cross-section of a trial pit soakaway. It shows a rectangular pit with a water level (WL) inside. The ground level (GL) is indicated at the top. The total depth of the pit is shown on the left, and the effective depth (head of water) is shown on the right.

Trial pit length	=	2.500 m
Trial pit width	=	0.600 m
Trial pit depth	=	2.500 m
Effective depth (Head of Water)	=	0.900 m

Initial depth from GL	=	1.600m	
% of effective depth	Head (m)	Depth from GL (m)	Time (mins)
75%	0.675	1.825	0.00
25%	0.225	2.275	0.00
Vp75-25	=	0.675	m3
ap50	=	4.290	m2
tp75-25	=	0.000	min
Soil Infiltration, f	=	*	m/sec

Remarks	*Unable to estimate infiltration rate due to very low drop in water level.
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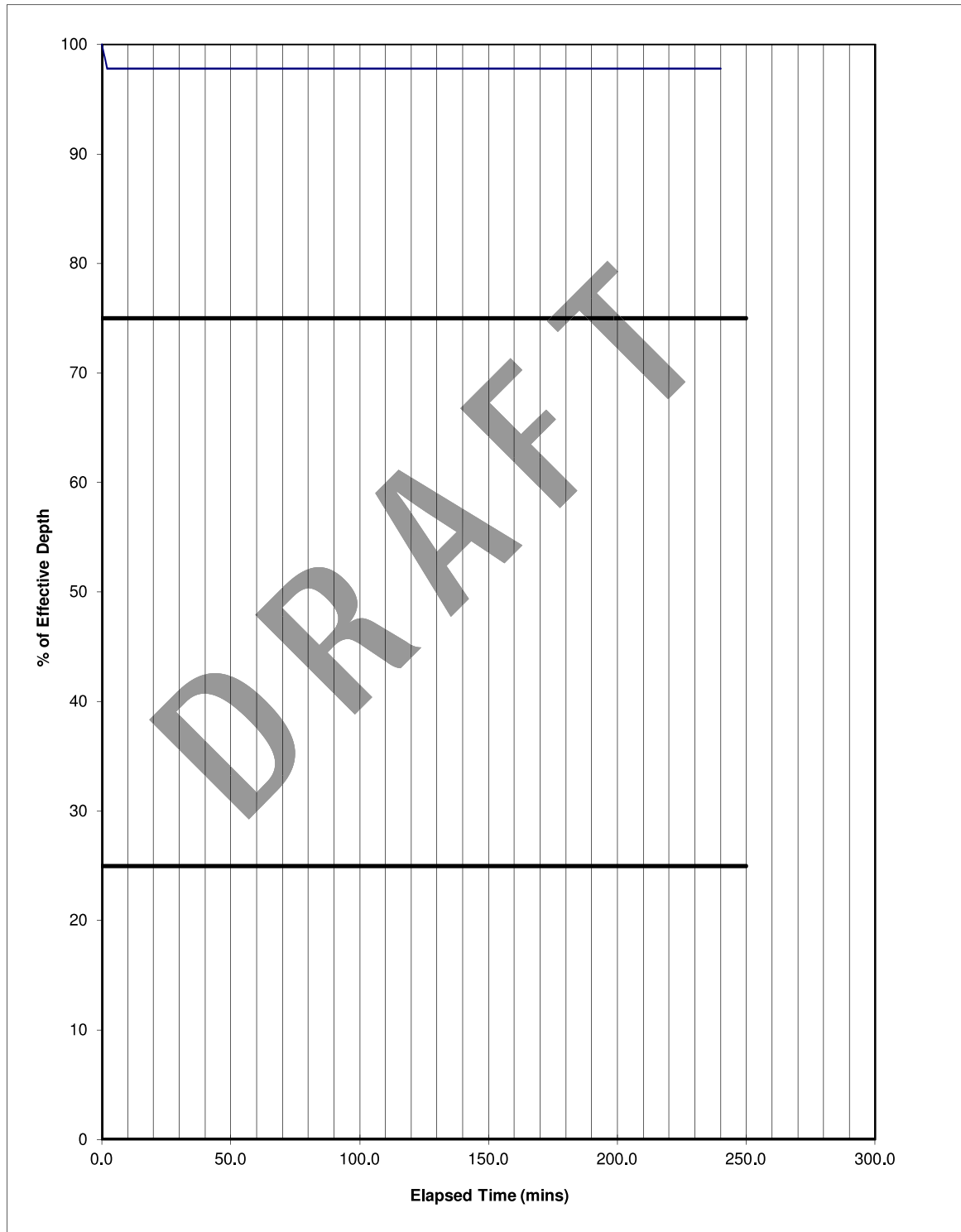
INSITU TESTING - Soakaway Test

Form INS009 Rev 7

Project Ground Investigation for Graven Hill, Bicester, Land Transfer Area 2 (LTA2)

Trial Pit TP813
Test No 1
Project No PC207899
Date 14/07/2020

Client Graven Hill Village Development Company Limited



tp75	=
tp25	=

Remarks *Unable to estimate infiltration rate due to very low drop in water level.

Sheet 2

Form INS009 Rev 7

Trial Pit	TP814
Test No	I
Project No	PC207899
Date	14/07/2020

The diagram illustrates a cross-section of a trial pit soakaway. It shows a rectangular pit with a water level (WL) inside. The ground level (GL) is indicated at the top of the pit walls. The total depth of the pit is labeled on the left, and the effective depth, which is the height of the water head, is labeled on the right.

Trial pit length	=	2.500 m
Trial pit width	=	0.600 m
Trial pit depth	=	2.500 m
Effective depth (Head of Water)	=	0.980 m

Initial depth from GL	=	1.520m	
% of effective depth	Head (m)	Depth from GL (m)	Time (mins)
75%	0.735	1.765	0.00
25%	0.245	2.255	0.00
Vp75-25	=	0.735	m3
ap50	=	4.538	m2
tp75-25	=	0.000	min
Soil Infiltration, f	=	*	m/sec

Remarks	*No infiltration rate calculated as no fall in the water level recorded.
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INSITU TESTING - Soakaway Test

Form INS009 Rev 7

Project Ground Investigation for Graven Hill, Bicester, Land Transfer Area 2 (LTA2)

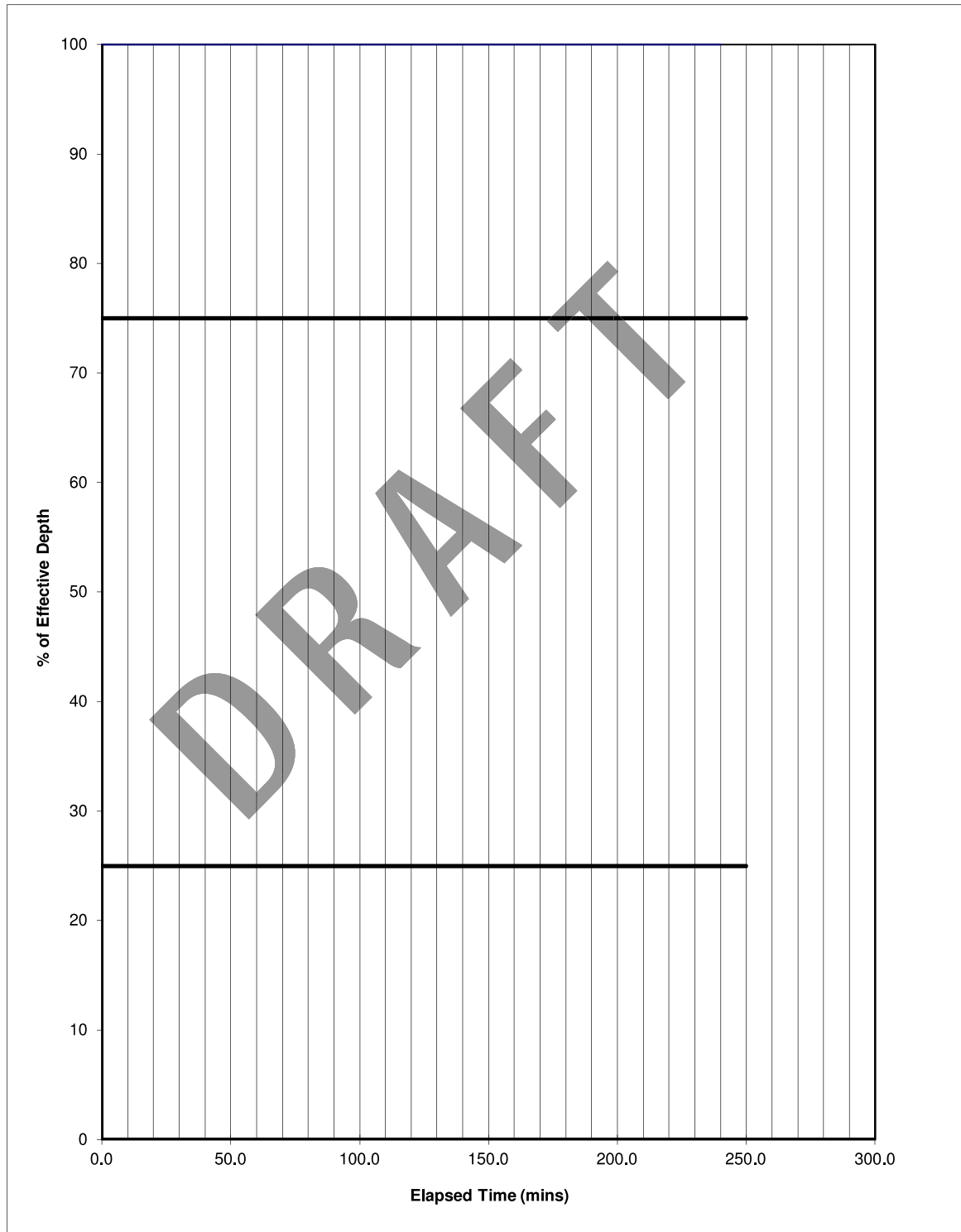
Trial Pit TP814

Test No I

Project No PC207899

Client Graven Hill Village Development Company Limited

Date 14/07/2020



tp75	=
tp25	=

Sheet 2

Remarks *No infiltration rate calculated as no fall in the water level recorded.

Form INS009 Rev 7

Trial Pit	TP815
Test No	I
Project No	PC207899
Date	15/07/2020

The diagram illustrates a trial pit soakaway. It shows a rectangular pit with a total depth and an effective depth. The ground level (GL) is indicated at the top right, and the water level (WL) is indicated inside the pit. The effective depth is the vertical distance from the water level to the bottom of the pit.

Trial pit length	=	2.700 m
Trial pit width	=	0.600 m
Trial pit depth	=	2.700 m
Effective depth (Head of Water)	=	0.950 m

Initial depth from GL	=	1.750m	
% of effective depth	Head (m)	Depth from GL (m)	Time (mins)
75%	0.713	1.988	0.00
25%	0.238	2.463	0.00
Vp75-25	=	0.770	m3
ap50	=	4.755	m2
tp75-25	=	0.000	min
Soil Infiltration, f	=	*	m/sec

Remarks	*No infiltration rate calculated as no fall in the water level recorded.
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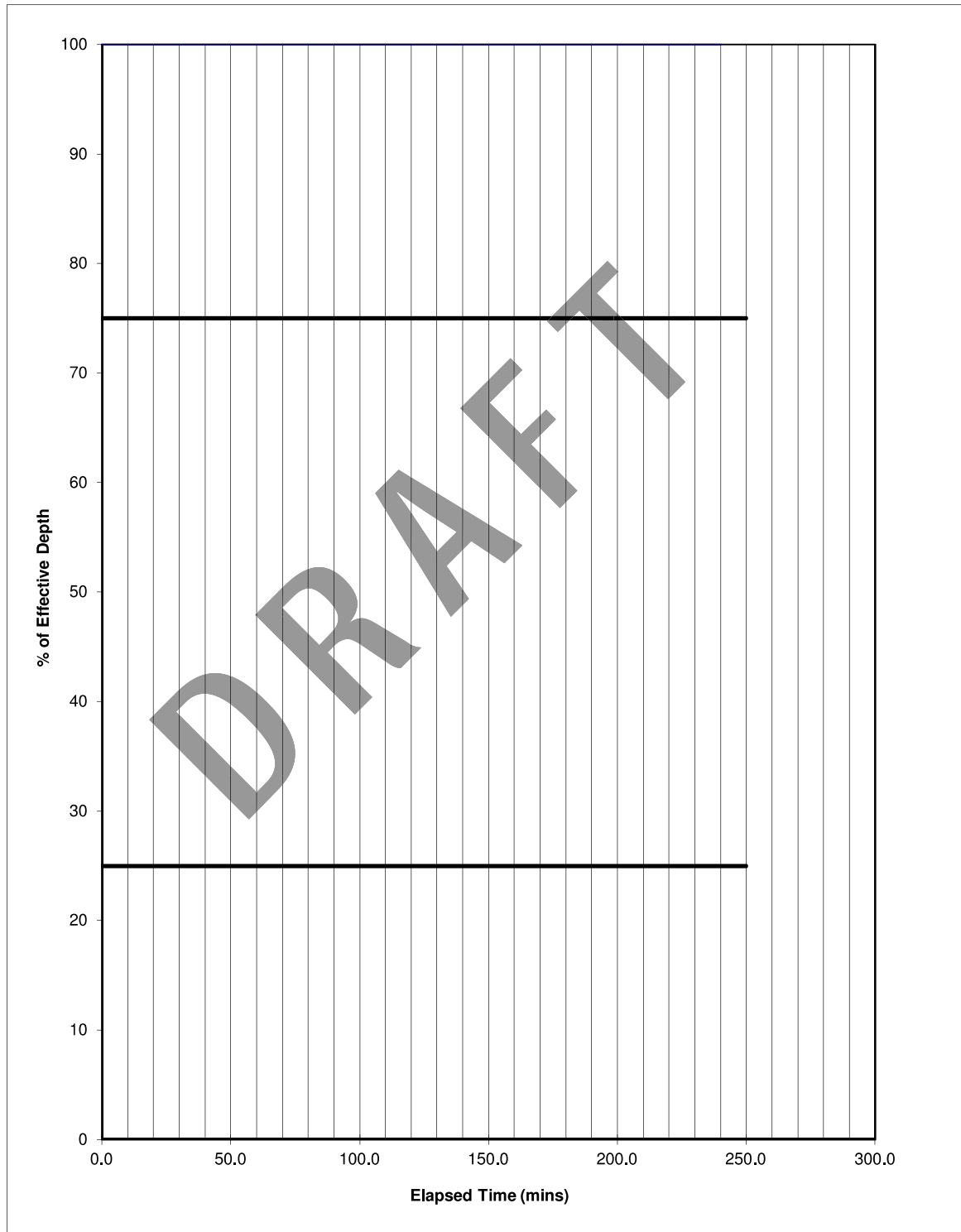
INSITU TESTING - Soakaway Test

Form INS009 Rev 7

Project Ground Investigation for Graven Hill, Bicester, Land Transfer Area 2 (LTA2)

Trial Pit TP815
Test No 1
Project No PC207899
Date 15/07/2020

Client Graven Hill Village Development Company Limited



tp75	=
tp25	=

Remarks *No infiltration rate calculated as no fall in the water level recorded.

Sheet 2

Form INS009 Rev 7

Trial Pit	TP817
Test No	I
Project No	PC207899
Date	17/07/2020

The diagram illustrates a cross-section of a trial pit soakaway. It features a U-shaped structure with a horizontal base and two vertical sides. The ground level (GL) is indicated by a hatched line at the top of both sides. The water level (WL) is shown as a horizontal line within the pit, with a downward arrow indicating the water depth on the right side. A vertical double-headed arrow on the left side spans the entire height from the base to the ground level, labeled "Total depth". Another vertical double-headed arrow on the right side spans from the water level to the ground level, labeled "Effective depth". A small inverted triangle symbol is positioned on the right side of the water level line.

Trial pit length	=	2.400	m
Trial pit width	=	0.600	m
Trial pit depth	=	2.700	m
Effective depth (Head of Water)	=	0.890	m

Sheet 1

GEOTECHNICS

INSITU TESTING - Soakaway Test

Form INS009 Rev 7

Project Ground Investigation for Graven Hill, Bicester, Land Transfer Area 2 (LTA2)

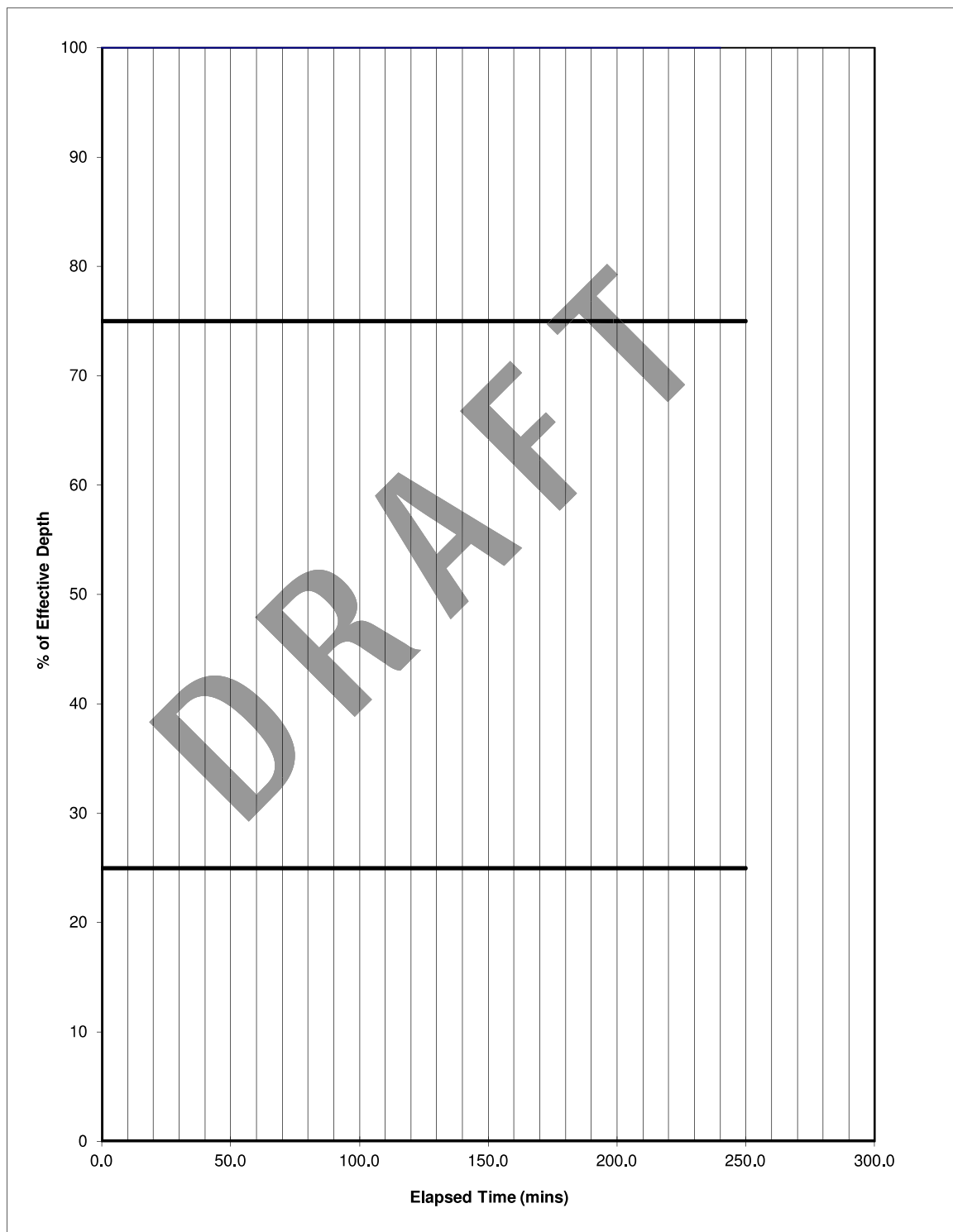
Trial Pit TP817

Test No I

Project No PC207899

Client Graven Hill Village Development Company Limited

Date 17/07/2020



tp75	=
tp25	=

Sheet 2

Remarks *No infiltration rate calculated as no fall in the water level recorded.

Form INS009 Rev 7

Trial Pit	TP818
Test No	I
Project No	PC207899
Date	16/07/2020

The diagram illustrates a cross-section of a trial pit soakaway. It features a U-shaped structure with a horizontal base and two vertical sides. The ground level (GL) is indicated by a hatched line at the top of the structure. The water level (WL) is shown as a horizontal line within the pit. A vertical double-headed arrow on the left side of the pit is labeled "Total depth", indicating the distance from the GL to the bottom of the pit. Another vertical double-headed arrow on the right side of the pit is labeled "Effective depth", indicating the distance from the WL to the bottom of the pit. A small inverted triangle symbol is positioned on the right side of the pit, near the WL. A large, faint watermark "L" is visible in the background.

Trial pit length	=	2.400	m
Trial pit width	=	0.600	m
Trial pit depth	=	2.500	m
Effective depth (Head of Water)	=	1.000	m

Sheet 1

GEOTECHNICS

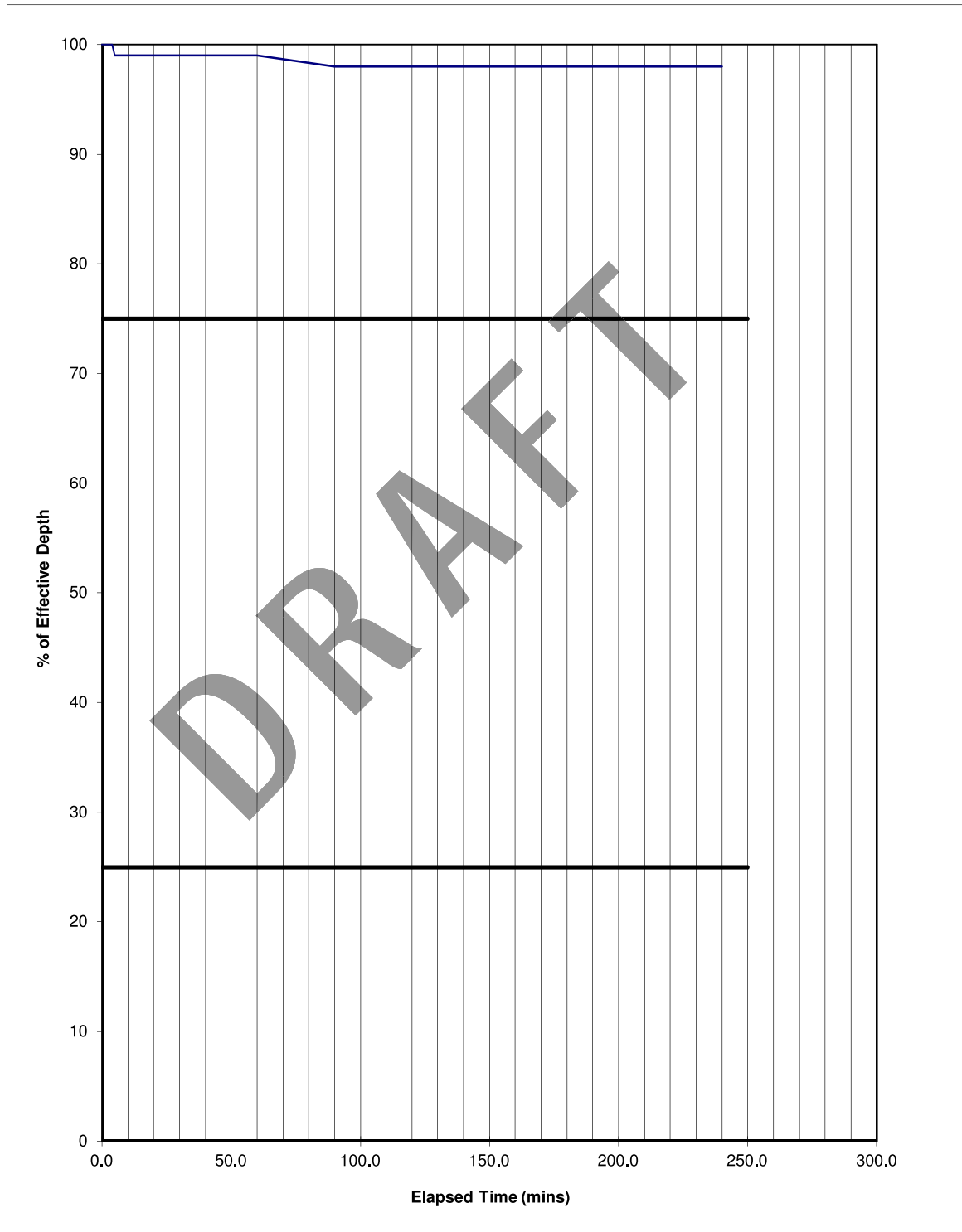
INSITU TESTING - Soakaway Test

Form INS009 Rev 7

Project Ground Investigation for Graven Hill, Bicester, Land Transfer Area 2 (LTA2)

Trial Pit TP818
Test No 1
Project No PC207899
Date 16/07/2020

Client Graven Hill Village Development Company Limited



tp75	=
tp25	=

Remarks *Unable to estimate infiltration rate due to very low drop in water level.

Sheet 2

Form INS009 Rev 7

Trial Pit	TP825
Test No	I
Project No	PC207899
Date	15/07/2020

Diagram illustrating the dimensions of a Trial Pit Soakaway:

- Total depth
- Effective depth
- WL (Water Level)
- GL (Ground Level)

Trial pit length	=	2.700 m
Trial pit width	=	0.600 m
Trial pit depth	=	2.500 m
Effective depth (Head of Water)	=	0.850 m

Initial depth from GL	=	1.650m	
% of effective depth	Head (m)	Depth from GL (m)	Time (mins)
75%	0.638	1.863	0.00
25%	0.213	2.288	0.00
Vp75-25	=	0.689	m3
ap50	=	4.425	m2
tp75-25	=	0.000	min
Soil Infiltration, f	=	*	m/sec

Remarks	*No infiltration rate calculated as no fall in the water level recorded.
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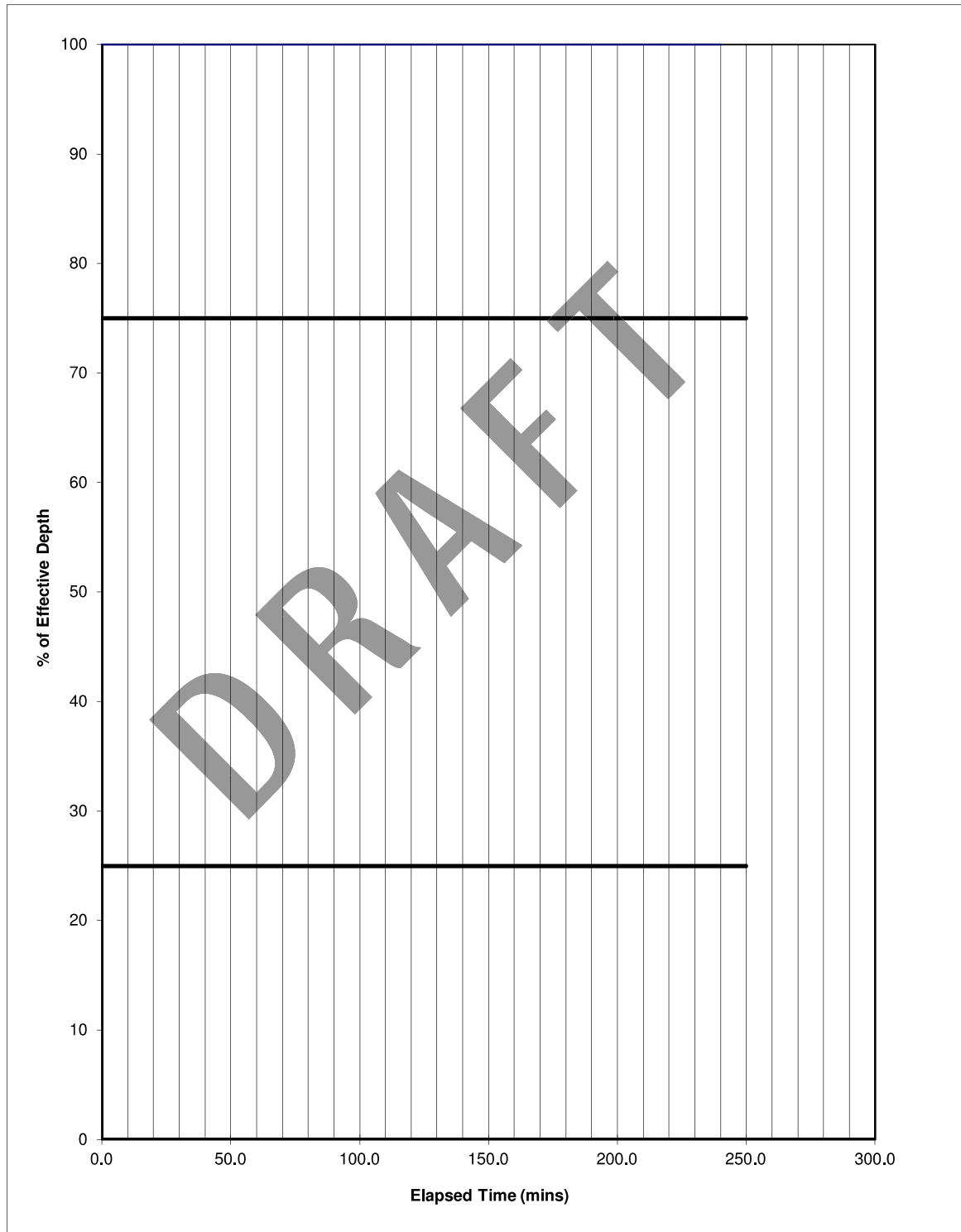
INSITU TESTING - Soakaway Test

Form INS009 Rev 7

Project Ground Investigation for Graven Hill, Bicester, Land Transfer Area 2 (LTA2)

Trial Pit TP825
Test No I
Project No PC207899
Date 15/07/2020

Client Graven Hill Village Development Company Limited



tp75	=
tp25	=

Sheet 2

Remarks *No infiltration rate calculated as no fall in the water level recorded.

Form INS009 Rev 7

Trial Pit	TP835
Test No	I
Project No	PC207899
Date	16/07/2020

Diagram illustrating the dimensions of a Trial Pit Soakaway:

- Total depth
- Effective depth
- WL (Water Level)
- GL (Ground Level)

Trial pit length	=	2.500 m
Trial pit width	=	0.600 m
Trial pit depth	=	2.500 m
Effective depth (Head of Water)	=	0.870 m

Initial depth from GL	=	1.630m	
% of effective depth	Head (m)	Depth from GL (m)	Time (mins)
75%	0.653	1.848	
25%	0.218	2.283	
Vp75-25	=	m3	
ap50	=	m2	
tp75-25	=	min	
Soil Infiltration, f	=	*	m/sec

Remarks	*No infiltration rate calculated as no fall in the water level recorded.
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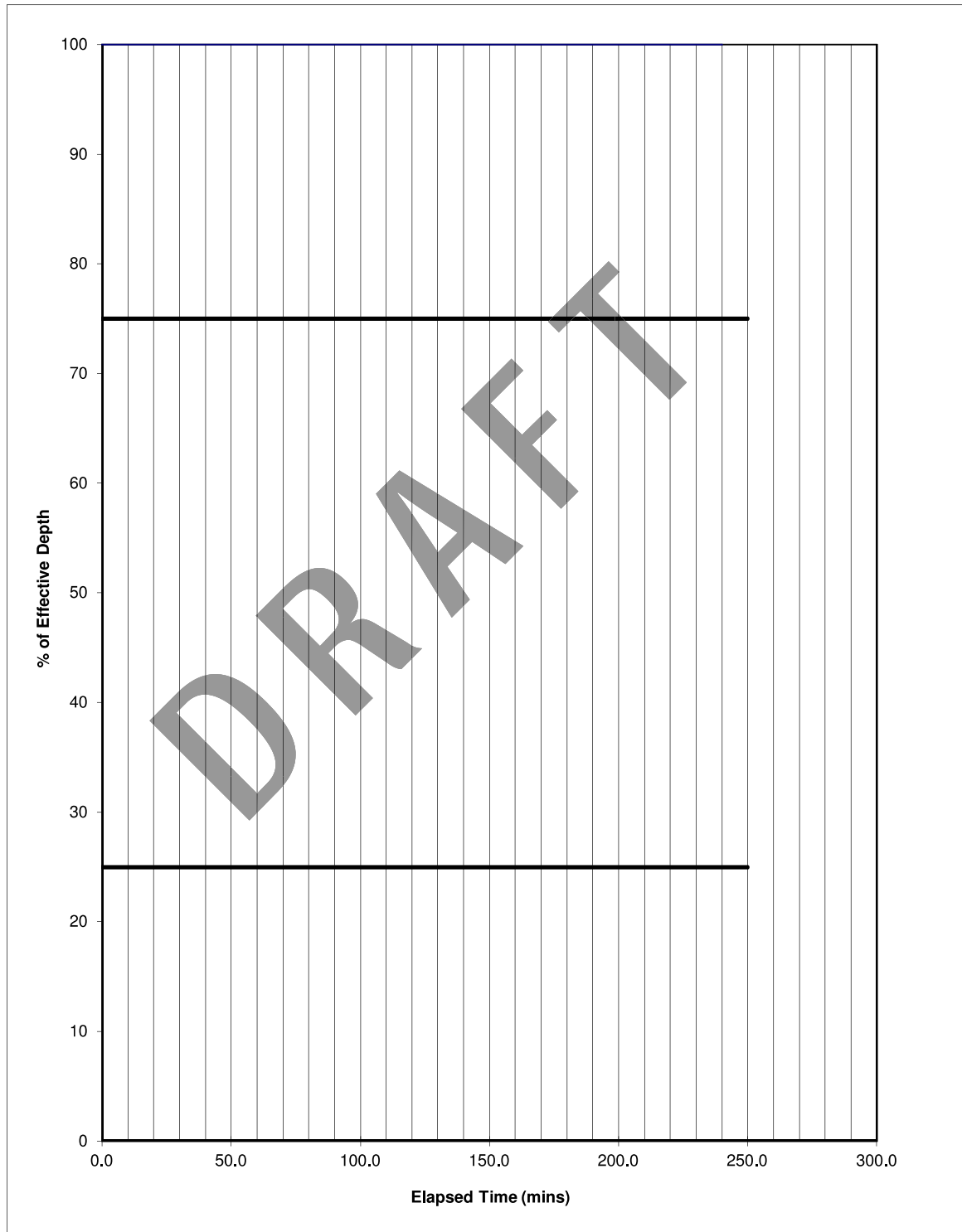
INSITU TESTING - Soakaway Test

Form INS009 Rev 7

Project Ground Investigation for Graven Hill, Bicester, Land Transfer Area 2 (LTA2)

Trial Pit TP835
Test No I
Project No PC207899
Date 16/07/2020

Client Graven Hill Village Development Company Limited



tp75	=
tp25	=

Remarks *No infiltration rate calculated as no fall in the water level recorded.

Sheet 2