



Legend Key

- Locations By Type - Empty
- Locations By Type - TP



Drawing Title

Figure 1 Trial Pit Locations

Project ID

25-3633

Project Title

Proposed Soakaway

Project Location

Lands Adjoining 120 Movilla Road, Newtownards

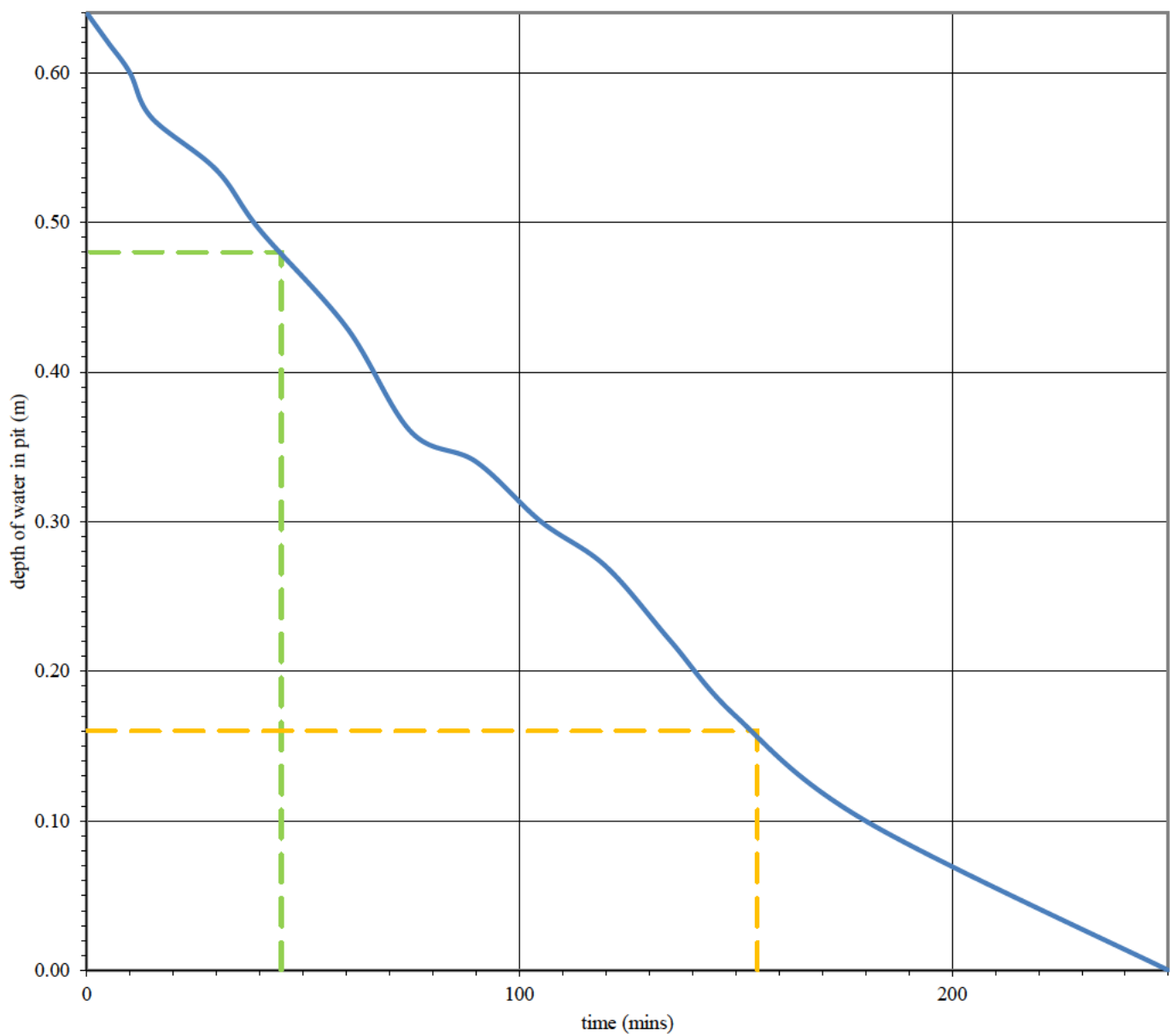
Scale: 1:750

 GroundCheck SITE INVESTIGATION SPECIALISTS		Trial Pit Log					Location ID: TP01 Page1/1			
Date Start: 22/05/2025		Location Type: Trial Pit		Project ID: 25-3633		Project Name: Proposed Soakaway		Easting: 351682 Northing: 374710		
Date Finish:		Logged By:		Site Location: Lands Adjoining 120 Movilla Road, Newtownards				Elevation:		
Samples & In-situ Testing		Results & Information	Water	Scale	Legend	Stratum Description	Depth (m)	Reduced Level (m)		
Type	Depth (m)									
						Soft to firm, dark greyish brown to brownish grey, gravelly, sandy, clayey SILT with low cobble content, occasional boulders and occasional broken bricks and concrete block. Gravel is fine to coarse sub-angular. Sand is fine to coarse. [MADE GROUND]				
				1.0						
				2.0		End of Trial Pit at 2.00m	2.00			
				3.0						
				4.0						
Trial Pit Dimensions Length - 2.0m		Shift Information				Depth Related Remarks		Water Strikes		
Width - 0.6m		Depth	Water	Remarks	Date Time	Top	Base	Remarks	Depth Strike	Flow
					01/01/2020 16:30					
Termination:		Pit Stability: Trial pit sidewalls collapsing between 0.0 and 0.0m as excavated. Trial pit sidewalls stable on completion of excavation.						Scale:  1:25		
General Remarks: Trial pit excavated using a 13tonne excavator fitted with a 600mm toothed bucket.										

BS6297:2007 - SOIL INFILTRATION TEST



PROJECT No.	SITE	TEST No.	
25-3633	120 Movilla Road, Newtownards	IT-01	
Effective Water Depth @ Vp 75%	Effective Water Depth @ Vp 25%	t(p75) Time for Water Level to Drain to 75% Effective Depth	t(p25) Time for Water Level to Drain to 25% Effective Depth
0.48	0.16	45	155
Time Difference Between Vp 75% & 25% (mins)	Time Difference Between Vp 75% & 25% (Secs)	Infiltration Rate Vp (Sec/mm)	Hydraulic Conductivity (m/sec)
110	6600	44	2.3E-05





Location ID:

Page 1/1

Easting:	Northring:
351674	374729

Elevation:

Reduced Level
(m)Reduced Level
(m)

1.70

End of Trial Pit at 2 10m

Depth	Strike	Flow
-------	--------	------

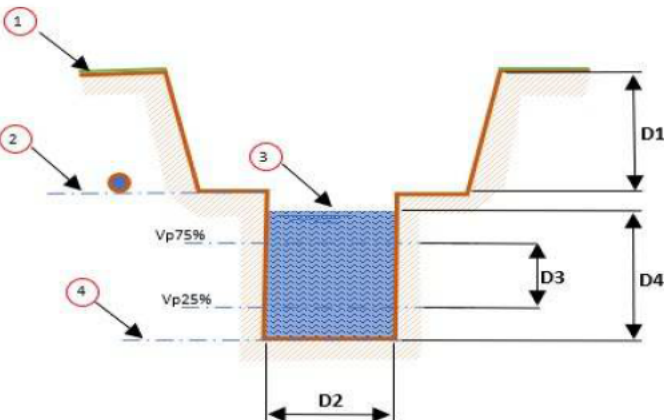
[illegible]

Scale:

Trial pit excavated using a 13tonne excavator fitted with a 600mm toothed bucket.

1:25

BS6297:2007 - SOIL INFILTRATION TEST					 GroundCheck	
PROJECT No.		SITE	TEST No.			
25-3633		120 Movilla Road, Newtownards	IT-02			
CLIENT		TEST DATE		WEATHER CONDITIONS	TEST PIT DEPTH (m)	
██████████		22/05/2025		Dry	2.00	
TRIAL PIT LOG	Depth (m)	Strata Description			Groundwater Strikes (m)	
	0	Soft to firm, dark greyish brown to brownish grey, gravelly, sandy, clayey SILT with cobbles, occasional boulders, and occasional broken bricks and concrete block. MADE GROUND			Dry	
	1.7					
SUMP DIMENSIONS		Width (m)	Length (m)	INFILTRATION RATE Vp (Secs/mm)		
Top dimensions		0.9	2.3	104		
Base dimensions		0.9	2.3			
Sump Depth (m)		1.7				
Water Level at Start Test		1.1				
Time (mins)	Depth to water surface (mm)	Depth of water in pit (m)	Time elapsed from test start (Seconds)			
0	1100	0.600	0			
5	1115	0.585	300			
10	1130	0.570	600			
15	1140	0.560	900			
30	1170	0.530	1800			
45	1200	0.500	2700			
60	1220	0.480	3600			
75	1235	0.465	4500			
90	1270	0.430	5400			
105	1280	0.420	6300			
120	1300	0.400	7200			
135	1330	0.370	8100			
165	1360	0.340	9900			
230	1440	0.260	13800			
270	1480	0.220	16200			
300	1510	0.190	18000			
360	1570	0.130	21600			
420	1630	0.070	25200			
480	1695	0.005	28800			
540	1700	0.000	32400			



Key

1

Ground Level

2

Invert Level of Infiltration Pipe

3

Water Level in Percolation Test Pit

4

Base of Percolation Test Pit

Soil Infiltration Rate:

$$V_p = \frac{t_{p25} - t_{p75}}{150}$$

$V_{p75-25} =$

Effective Storage Volume of Pit between 75% & 25% Effective Water Depths

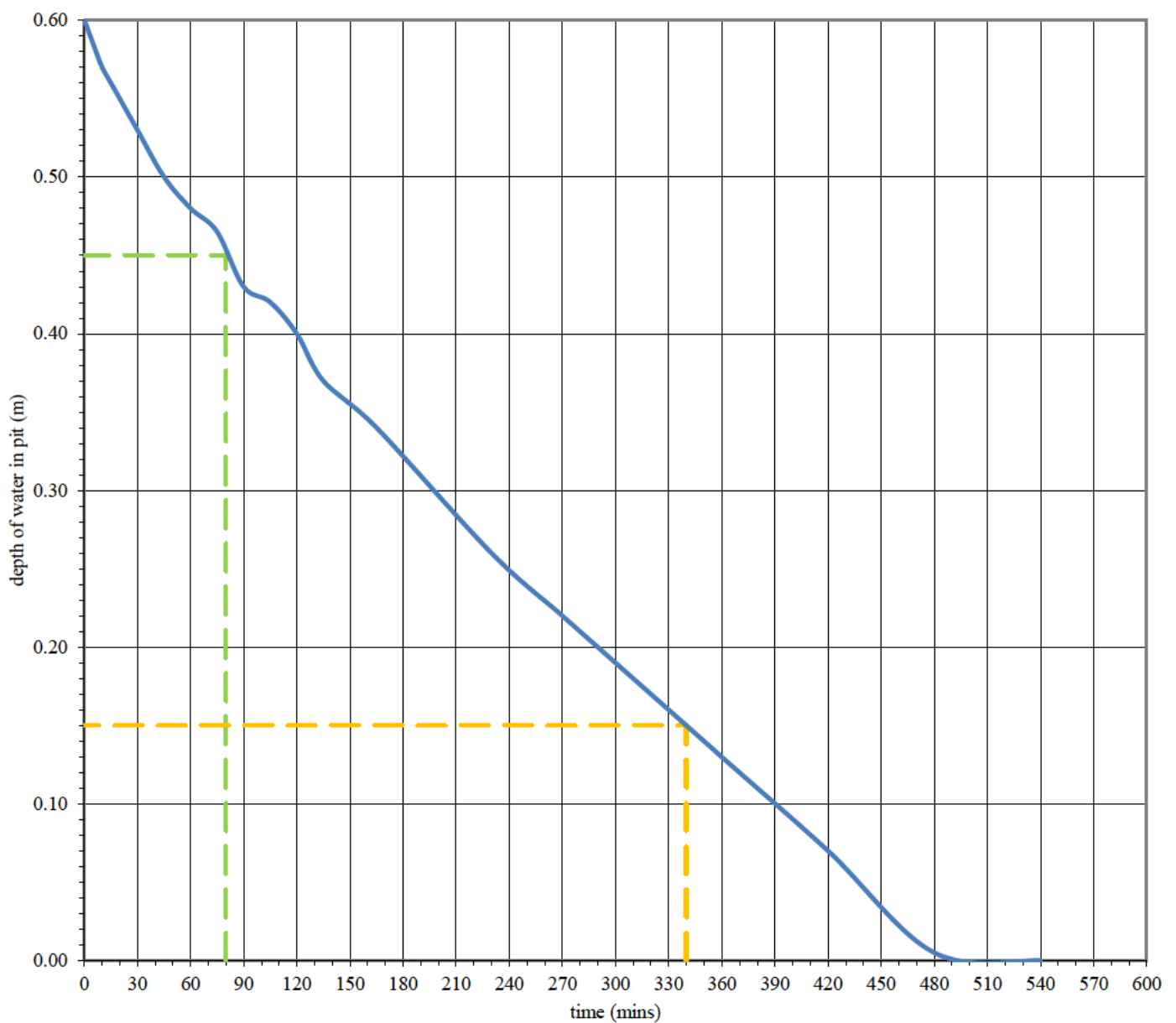
$t_{p75-25} =$

Time for Water Level to Fall between 75% & 25% Effective Depths

BS6297:2007 - SOIL INFILTRATION TEST



PROJECT No.	SITE	TEST No.	
25-3633	120 Movilla Road, Newtownards	IT-02	
Effective Water Depth @ Vp 75%	Effective Water Depth @ Vp 25%	t(p75) Time for Water Level to Drain to 75% Effective Depth	t(p25) Time for Water Level to Drain to 25% Effective Depth
0.45	0.15	80	340
Time Difference Between Vp 75% & 25% (mins)	Time Difference Between Vp 75% & 25% (Secs)	Infiltration Rate Vp (Sec/mm)	Hydraulic Conductivity (m/sec)
260	15600	104	9.6E-06





Location ID:

Page1/1

Easting:	Northing:
351667	374747

Elevation:

Reduced Level
(m)Reduced Level
(m)

1.80

End of Trial Pit at 2 40m

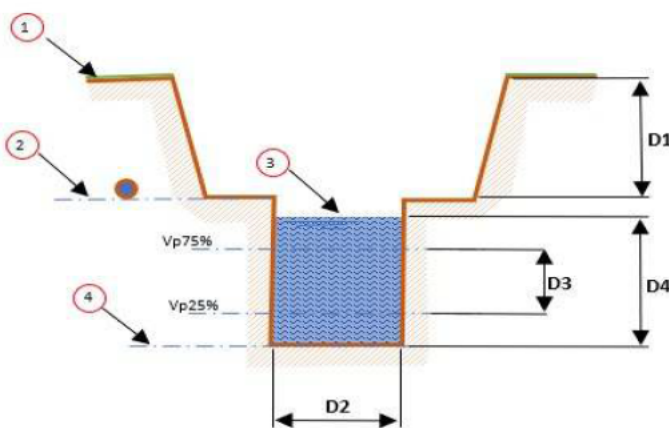
Width - 0.6m



1:25

Trial pit excavated using a 13tonne excavator fitted with a 600mm toothed bucket.

BS6297:2007 - SOIL INFILTRATION TEST					 GroundCheck	
PROJECT No.		SITE	TEST No.			
25-3633		120 Movilla Road, Newtownards	IT-03			
CLIENT		TEST DATE		WEATHER CONDITIONS	TEST PIT DEPTH (m)	
[REDACTED]		22/05/2025		Dry	2.00	
TRIAL PIT LOG	Depth (m)	Strata Description			Groundwater Strikes (m)	
	0	Soft to firm, dark greyish brown to brownish grey, gravelly, sandy, clayey SILT with cobbles, occasional boulders, and occasional broken bricks and concrete block. MADE GROUND			Dry	
	1.8					
SUMP DIMENSIONS		Width (m)	Length (m)	INFILTRATION RATE Vp (Secs/mm)		
Top dimensions		0.9	2.7	2920		
Base dimensions		0.9	2.7			
Sump Depth (m)		1.8				
Water Level at Start Test		1.46				
Time (mins)	Depth to water surface (mm)	Depth of water in pit (m)	Time elapsed from test start (Seconds)			
0	1460	0.340	0			
5	1470	0.330	300			
10	1485	0.315	600			
15	1490	0.310	900			
20	1495	0.305	1200			
30	1500	0.300	1800			
45	1505	0.295	2700			
60	1510	0.290	3600			
75	1515	0.285	4500			
90	1520	0.280	5400			
120	1525	0.275	7200			
135	1530	0.270	8100			
200	1545	0.255	12000			
260	1560	0.240	15600			
300	1565	0.235	18000			
360	1570	0.230	21600			
420	1573	0.227	25200			
480	1576	0.224	28800			
540	1579	0.221	32400			
1440	1600	0.200	86400			



Key

1 Ground Level

2 Invert Level of Infiltration Pipe

3 Water Level in Percolation Test Pit

4 Base of Percolation Test Pit

Soil Infiltration Rate:

$V_p = \frac{t_{p25} - t_{p75}}{150}$

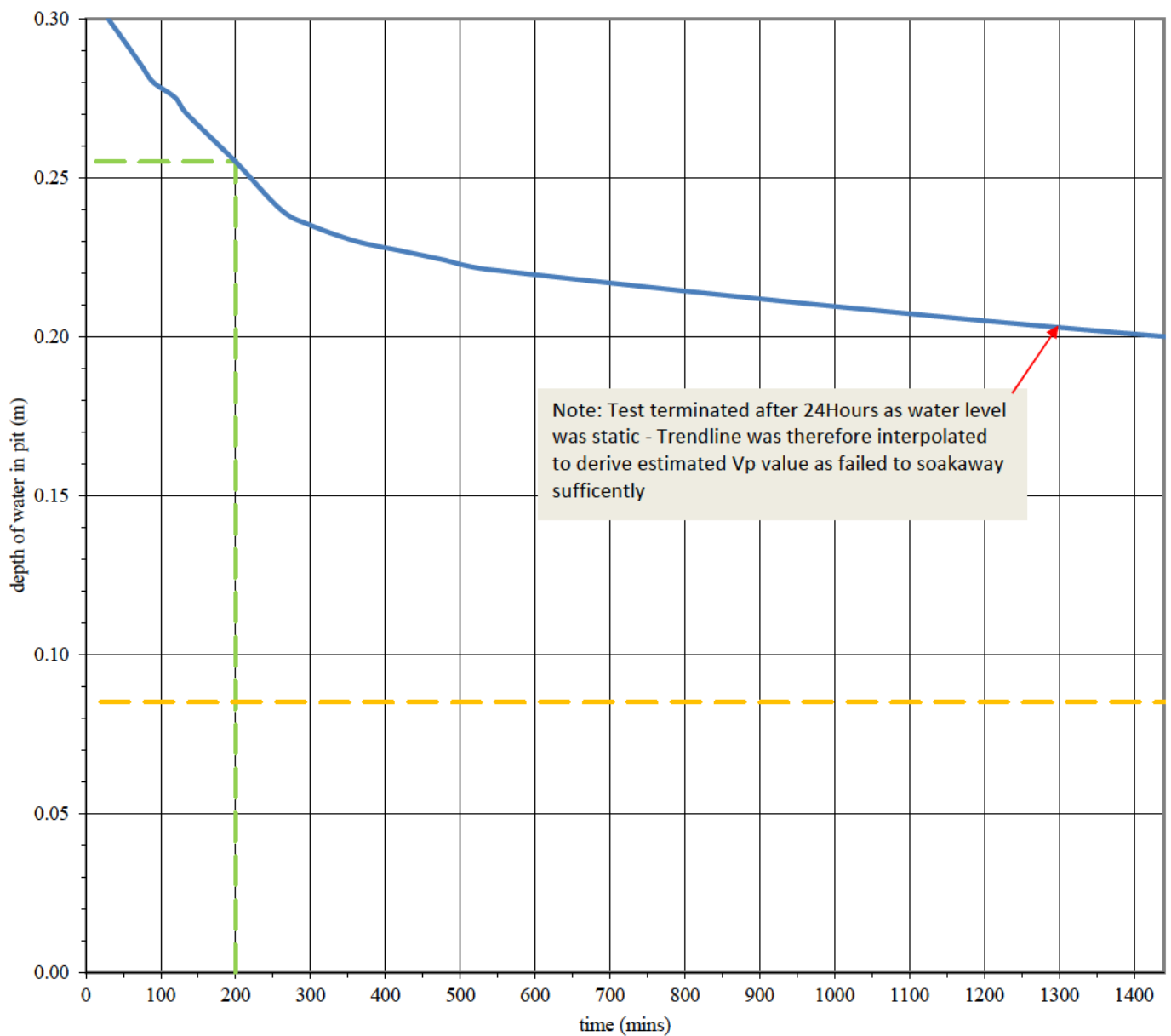
V_{p75-25} = Effective Storage Volume of Pit between 75% & 25% Effective Water Depths

t_{p75-25} = Time for Water Level to Fall between 75% & 25% Effective Depths

BS6297:2007 - SOIL INFILTRATION TEST



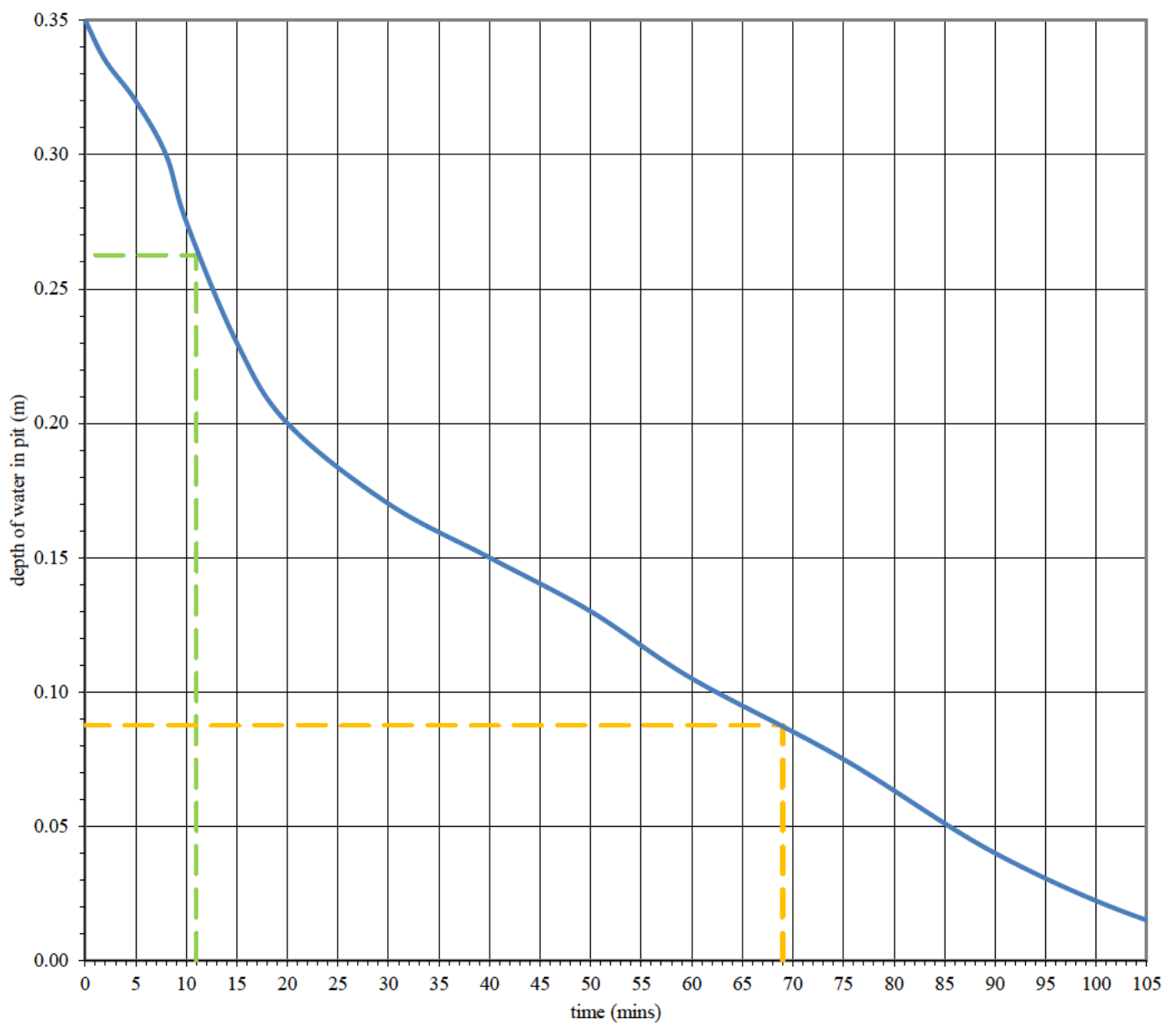
PROJECT No.	SITE	TEST No.	
25-3633	120 Movilla Road, Newtownards	IT-03	
Effective Water Depth @ Vp 75%	Effective Water Depth @ Vp 25%	t(p75) Time for Water Level to Drain to 75% Effective Depth	t(p25) Time for Water Level to Drain to 25% Effective Depth
0.255	0.085	200	7500
Time Difference Between Vp 75% & 25% (mins)	Time Difference Between Vp 75% & 25% (Secs)	Infiltration Rate Vp (Sec/mm)	Hydraulic Conductivity (m/sec)
7300	438000	2920	3.4E-07

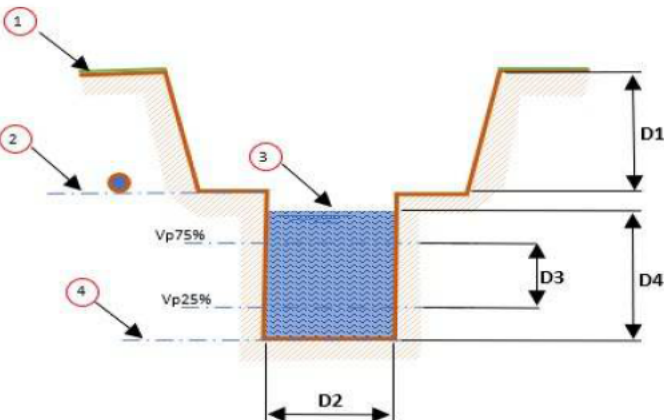


BS6297:2007 - SOIL INFILTRATION TEST



PROJECT No.	SITE	TEST No.	
25-3633A	120 Movilla Road, Newtownards	TP-01A	
Effective Water Depth @ Vp 75%	Effective Water Depth @ Vp 25%	t(p75) Time for Water Level to Drain to 75% Effective Depth	t(p25) Time for Water Level to Drain to 25% Effective Depth
0.2625	0.0875	11	69
Time Difference Between Vp 75% & 25% (mins)	Time Difference Between Vp 75% & 25% (Secs)	Infiltration Rate Vp (Sec/mm)	Hydraulic Conductivity (m/sec)
58	3480	23	4.3E-05



BS6297:2007 - SOIL INFILTRATION TEST					 GroundCheck		
PROJECT No.		SITE		TEST No.			
25-3633A		120 Movilla Road, Newtownards		TP-01B			
CLIENT		TEST DATE		WEATHER CONDITIONS		TEST PIT DEPTH (m)	
██████████		28/05/2025		Dry		1.00	
TRIAL PIT LOG	Depth (m)	Strata Description				Groundwater Strikes (m)	
	0	Soft to firm, dark greyish brown to brownish grey, gravelly, sandy, clayey SILT with low to medium cobble content, low boulder content, and occasional broken bricks and concrete block, and pieces of metal. MADE GROUND				Dry	
	1						
SUMP DIMENSIONS		Width (m)	Length (m)	INFILTRATION RATE Vp (Secs/mm)			
Top dimensions		0.32	0.35	27			
Base dimensions		0.32	0.35				
Sump Depth (m)		0.35					
Water Level at Start Test		0.05					
Time (mins)	Depth to water surface (mm)	Depth of water in pit (m)	Time elapsed from test start (Seconds)				
0	50	0.300	0				
1	65	0.285	60				
3	80	0.270	180				
5	95	0.255	300				
8	110	0.240	480				
10	115	0.235	600				
12	125	0.225	720				
15	140	0.210	900				
17	150	0.200	1020				
19	160	0.190	1140				
21	165	0.185	1260				
23	185	0.165	1380				
31	200	0.150	1860				
45	218	0.132	2700				
60	240	0.110	3600				
72	265	0.085	4320				
90	287	0.063	5400				
120	312	0.038	7200				
155	329	0.021	9300				
195	350	0.000	11700				

Key

1

Ground Level

2

Invert Level of Infiltration Pipe

3

Water Level in Percolation Test Pit

4

Base of Percolation Test Pit

Soil Infiltration Rate:

$$V_p = \frac{t_{p25} - t_{p75}}{150}$$

$V_{p75-25} =$

Effective Storage Volume of Pit between 75% & 25% Effective Water Depths

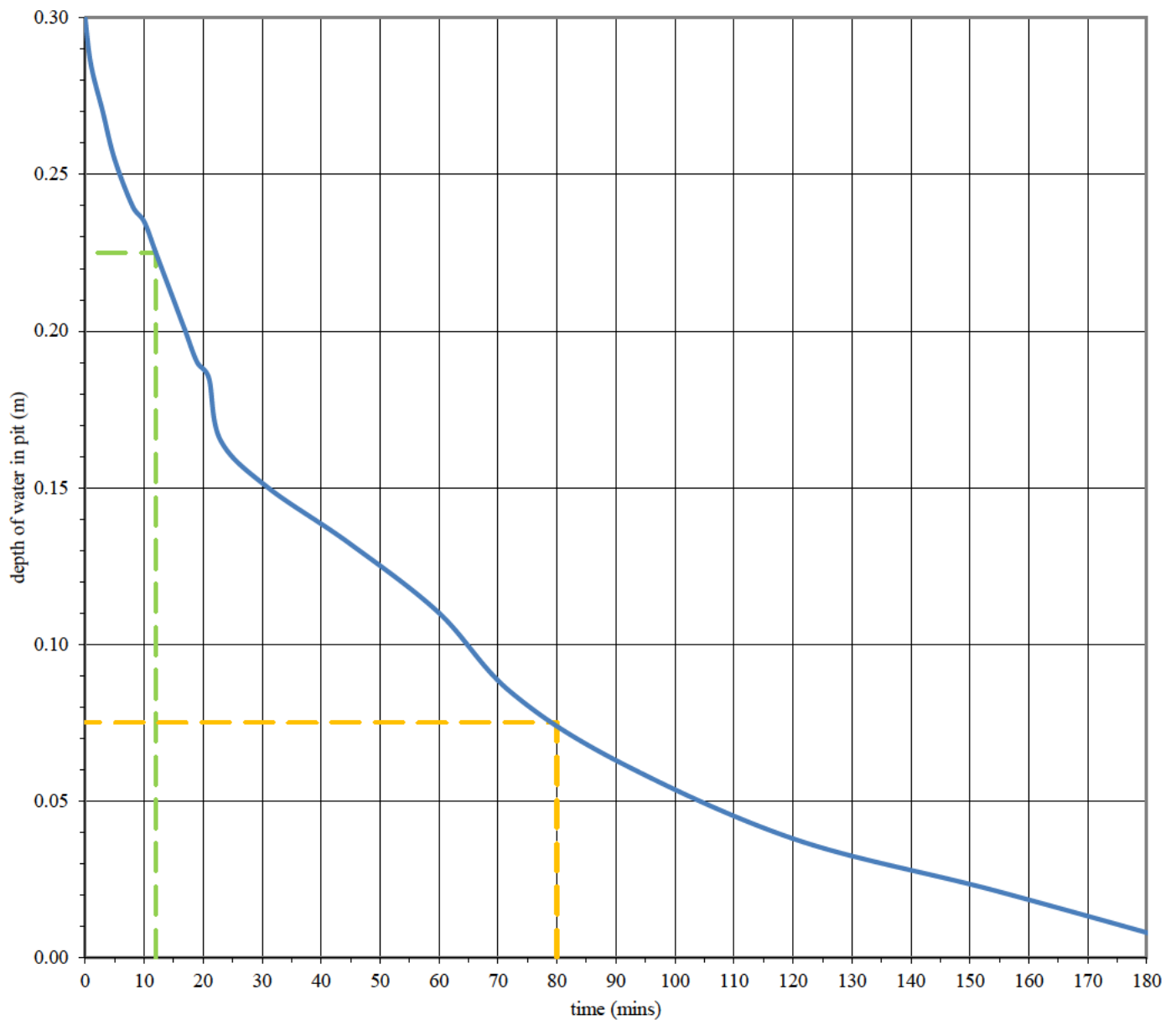
$t_{p75-25} =$

Time for Water Level to Fall between 75% & 25% Effective Depths

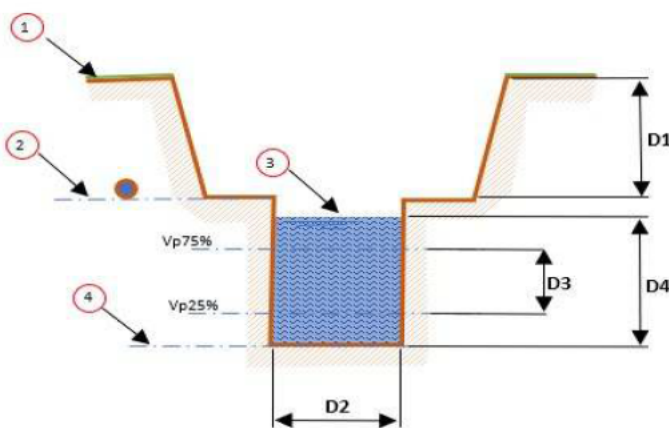
BS6297:2007 - SOIL INFILTRATION TEST



PROJECT No.	SITE	TEST No.	
25-3633A	120 Movilla Road, Newtownards	TP-01B	
Effective Water Depth @ Vp 75%	Effective Water Depth @ Vp 25%	t(p75) Time for Water Level to Drain to 75% Effective Depth	t(p25) Time for Water Level to Drain to 25% Effective Depth
0.225	0.075	12	80
Time Difference Between Vp 75% & 25% (mins)	Time Difference Between Vp 75% & 25% (Secs)	Infiltration Rate Vp (Sec/mm)	Hydraulic Conductivity (m/sec)
68	4080	27	3.7E-05



BS6297:2007 - SOIL INFILTRATION TEST					 GroundCheck	
PROJECT No.		SITE	TEST No.			
25-3633A		120 Movilla Road, Newtownards	TP-01C			
CLIENT		TEST DATE		WEATHER CONDITIONS	TEST PIT DEPTH (m)	
██████████		28/05/2025		Dry	1.00	
TRIAL PIT LOG	Depth (m)	Strata Description			Groundwater Strikes (m)	
	0	Soft to firm, dark greyish brown to brownish grey, gravelly, sandy, clayey SILT with low to medium cobble content, low boulder content, and occasional broken bricks and concrete block, and pieces of metal. MADE GROUND			Dry	
	1					
SUMP DIMENSIONS		Width (m)	Length (m)	INFILTRATION RATE Vp (Secs/mm)		
Top dimensions		0.5	0.4	15		
Base dimensions		0.5	0.4			
Sump Depth (m)		0.35				
Water Level at Start Test		0				
Time (mins)	Depth to water surface (mm)	Depth of water in pit (m)	Time elapsed from test start (Seconds)			
0	0	0.350	0			
2	15	0.335	120			
5	28	0.322	300			
7	53	0.297	420			
9	85	0.265	540			
12	115	0.235	720			
15	140	0.210	900			
17	155	0.195	1020			
19	180	0.170	1140			
22	200	0.150	1320			
25	210	0.140	1500			
30	225	0.125	1800			
40	250	0.100	2400			
50	270	0.080	3000			
60	290	0.060	3600			
75	310	0.040	4500			
90	325	0.025	5400			
105	340	0.010	6300			
120	350	0.000	7200			



Key

1

Ground Level

2

Invert Level of Infiltration Pipe

3

Water Level in Percolation Test Pit

4

Base of Percolation Test Pit

Soil Infiltration Rate:

$$V_p = \frac{t_{p25} - t_{p75}}{150}$$

$V_{p75-25} =$

Effective Storage Volume of Pit between 75% & 25% Effective Water Depths

$t_{p75-25} =$

Time for Water Level to Fall between 75% & 25% Effective Depths

Key
1 Ground Level
2 Invert Level of Infiltration Pipe
3 Water Level in Percolation Test Pit
4 Base of Percolation Test Pit

Soil Infiltration Rate:

$$V_p = \frac{t_{p25} - t_{p75}}{150}$$

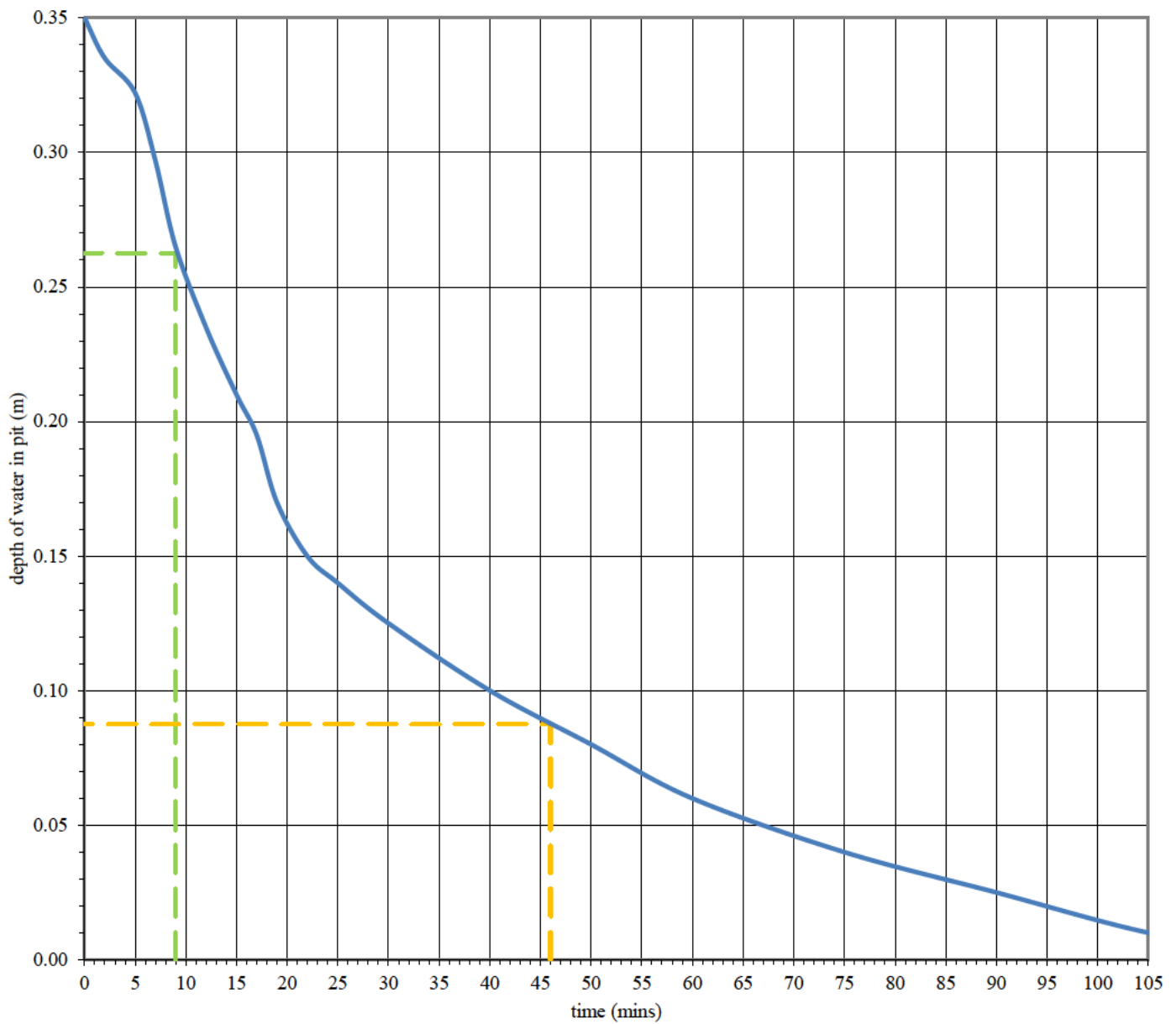
V_{p75-25} = Effective Storage Volume of Pit between 75% & 25% Effective Water Depths
 t_{p75-25} = Time for Water Level to Fall between 75% & 25% Effective Depths

BS6297:2007 - SOIL INFILTRATION TEST



GroundCheck

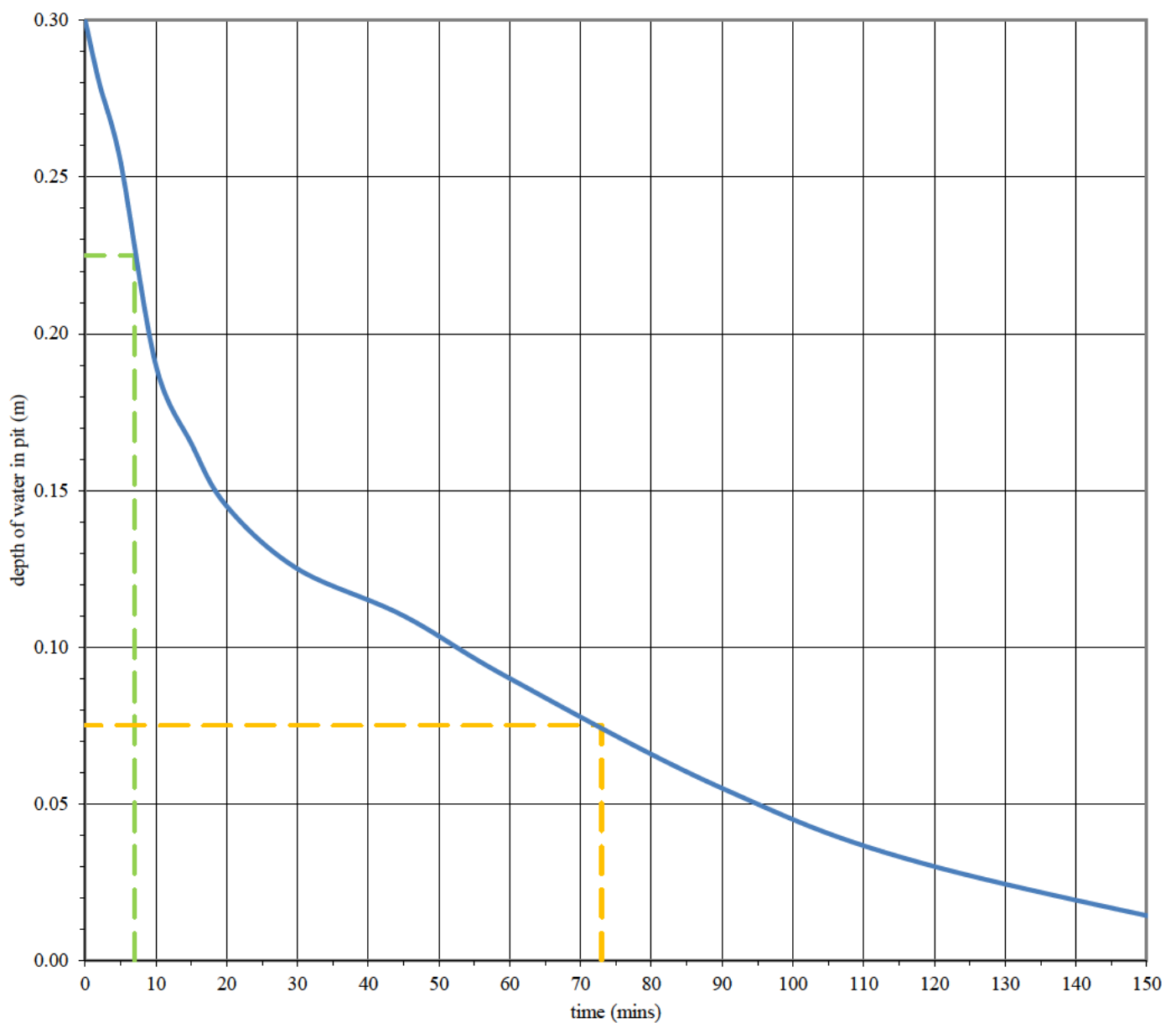
PROJECT No.	SITE	TEST No.	
25-3633A	120 Movilla Road, Newtownards	TP-01C	
Effective Water Depth @ Vp 75%	Effective Water Depth @ Vp 25%	t(p75) Time for Water Level to Drain to 75% Effective Depth	t(p25) Time for Water Level to Drain to 25% Effective Depth
0.2625	0.0875	9	46
Time Difference Between Vp 75% & 25% (mins)	Time Difference Between Vp 75% & 25% (Secs)	Infiltration Rate Vp (Sec/mm)	Hydraulic Conductivity (m/sec)
37	2220	15	6.8E-05



BS6297:2007 - SOIL INFILTRATION TEST



PROJECT No.	SITE	TEST No.	
25-3633A	120 Movilla Road, Newtownards	TP-02A	
Effective Water Depth @ Vp 75%	Effective Water Depth @ Vp 25%	t(p75) Time for Water Level to Drain to 75% Effective Depth	t(p25) Time for Water Level to Drain to 25% Effective Depth
0.225	0.075	7	73
Time Difference Between Vp 75% & 25% (mins)	Time Difference Between Vp 75% & 25% (Secs)	Infiltration Rate Vp (Sec/mm)	Hydraulic Conductivity (m/sec)
66	3960	26	3.8E-05

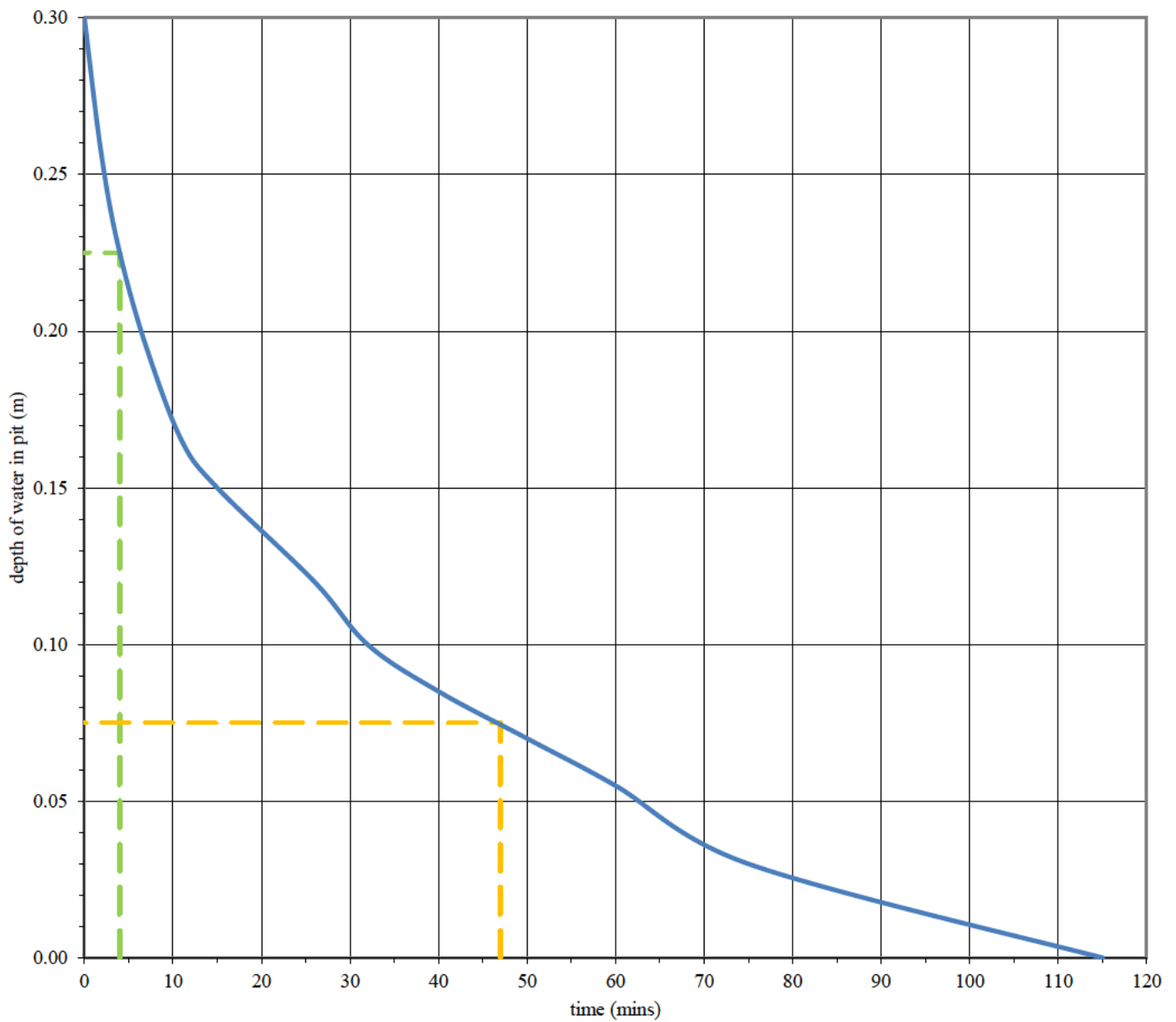


[illegible]

BS6297:2007 - SOIL INFILTRATION TEST



PROJECT No.	SITE	TEST No.	
25-3633A	120 Movilla Road, Newtownards	TP-02B	
Effective Water Depth @ Vp 75%	Effective Water Depth @ Vp 25%	t(p75) Time for Water Level to Drain to 75% Effective Depth	t(p25) Time for Water Level to Drain to 25% Effective Depth
0.225	0.075	4	47
Time Difference Between Vp 75% & 25% (mins)	Time Difference Between Vp 75% & 25% (Secs)	Infiltration Rate Vp (Sec/mm)	Hydraulic Conductivity (m/sec)
43	2580	17	5.8E-05



BS6297:2007 - SOIL INFILTRATION TEST					 GroundCheck	
PROJECT No.		SITE	TEST No.			
25-3633A		120 Movilla Road, Newtownards	TP-02C			
CLIENT		TEST DATE	WEATHER CONDITIONS		TEST PIT DEPTH (m)	
██████████		28/05/2025	Dry		1.00	
TRIAL PIT LOG	Depth (m)	Strata Description			Groundwater Strikes (m)	
	0	Soft to firm, dark greyish brown to brownish grey, gravelly, sandy, locally slightly organic, clayey SILT with medium cobble content, low boulder content, and occasional broken bricks and concrete block, pieces of rotten timber and many granite square sets. MADE GROUND			Dry	
	1					
SUMP DIMENSIONS		Width (m)	Length (m)	INFILTRATION RATE Vp (Secs/mm)		
Top dimensions		0.4	0.4	35		
Base dimensions		0.4	0.4			
Sump Depth (m)		0.35				
Water Level at Start Test		0				
Time (mins)	Depth to water surface (mm)	Depth of water in pit (m)				
0	0	0.350	0			
2	30	0.320	120			
5	50	0.300	300			
10	65	0.285	600			
15	95	0.255	900			
20	120	0.230	1200			
30	150	0.200	1800			
45	175	0.175	2700			
60	200	0.150	3600			
75	230	0.120	4500			
90	245	0.105	5400			
105	270	0.080	6300			
120	295	0.055	7200			
150	310	0.040	9000			
180	330	0.020	10800			
210	350	0.000	12600			
			3			

1

2

3

4

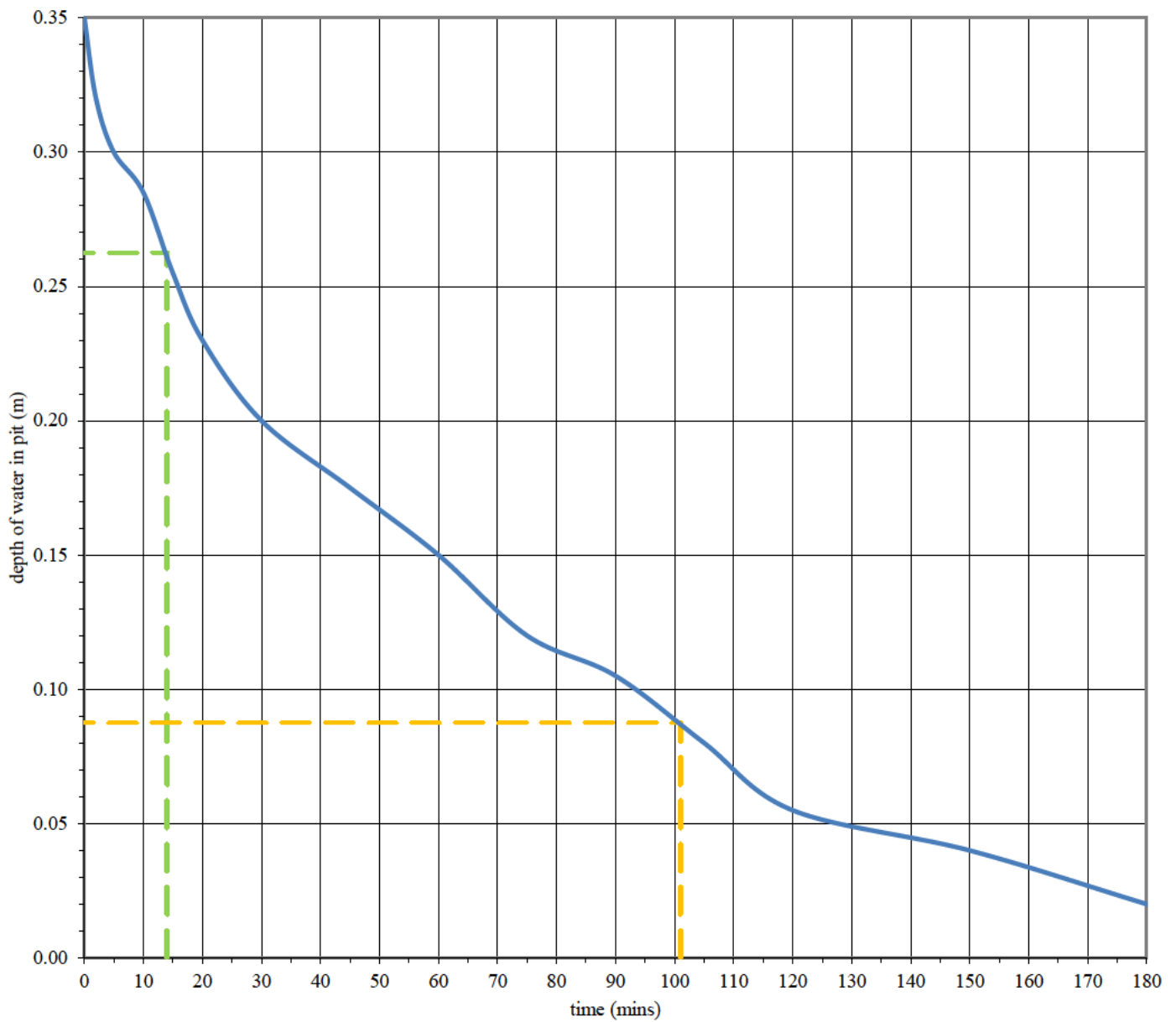
<

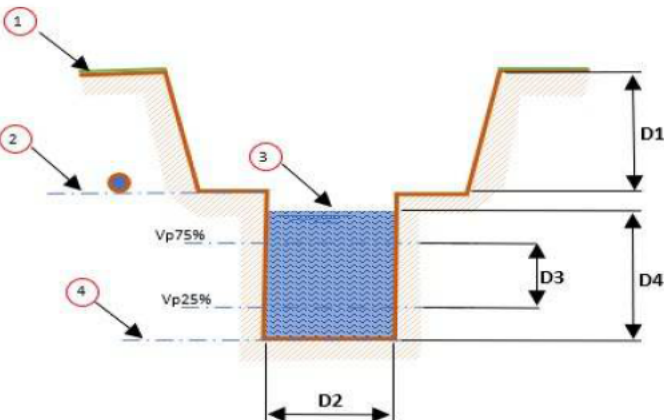
BS6297:2007 - SOIL INFILTRATION TEST



GroundCheck

PROJECT No.	SITE	TEST No.	
25-3633A	120 Movilla Road, Newtownards	TP-02C	
Effective Water Depth @ Vp 75%	Effective Water Depth @ Vp 25%	t(p75) Time for Water Level to Drain to 75% Effective Depth	t(p25) Time for Water Level to Drain to 25% Effective Depth
0.2625	0.0875	14	101
Time Difference Between Vp 75% & 25% (mins)	Time Difference Between Vp 75% & 25% (Secs)	Infiltration Rate Vp (Sec/mm)	Hydraulic Conductivity (m/sec)
87	5220	35	2.9E-05



BS6297:2007 - SOIL INFILTRATION TEST					 GroundCheck			
PROJECT No.		SITE		TEST No.				
25-3633A		120 Movilla Road, Newtownards		TP-03A				
CLIENT		TEST DATE		WEATHER CONDITIONS		TEST PIT DEPTH (m)		
██████████		28/05/2025		Dry		1.00		
TRIAL PIT LOG	Depth (m)	Strata Description				Groundwater Strikes (m)		
	0	Soft to firm, dark greyish brown to brownish grey, gravelly, sandy, locally slightly organic, clayey SILT/silty CLAY with low to medium cobble content, low boulder content, and occasional broken bricks and concrete block, pockets of topsoil and brown clay. MADE GROUND				Dry		
	1							
SUMP DIMENSIONS		Width (m)	Length (m)	INFILTRATION RATE Vp (Secs/mm)				
Top dimensions		0.4	0.35	404				
Base dimensions		0.4	0.35					
Sump Depth (m)		0.35						
Water Level at Start Test		0.075						
Time (mins)	Depth to water surface (mm)	Depth of water in pit (m)						
0	75	0.275					0	
2	80	0.270					120	
5	82	0.268					300	
10	83	0.267					600	
15	85	0.265					900	
20	87	0.263					1200	
30	89	0.261					1800	
45	92	0.258					2700	
60	95	0.255					3600	
75	98	0.252					4500	
90	105	0.245					5400	
105	110	0.240					6300	
120	115	0.235					7200	
150	120	0.230					9000	
180	125	0.225					10800	
210	130	0.220					12600	
240	135	0.215					14400	
300	145	0.205					18000	
360	155	0.195					21600	
420	165	0.185					25200	
1800	350	0.000					108000	
				Key 1 Ground Level 2 Invert Level of Infiltration Pipe 3 Water Level in Percolation Test Pit 4 Base of Percolation Test Pit				

Soil Infiltration Rate:

$$V_p = \frac{t_{p75} - t_{p25}}{150}$$

V_{p75-25} =

Effective Storage Volume of Pit between 75% & 25% Effective Water Depths

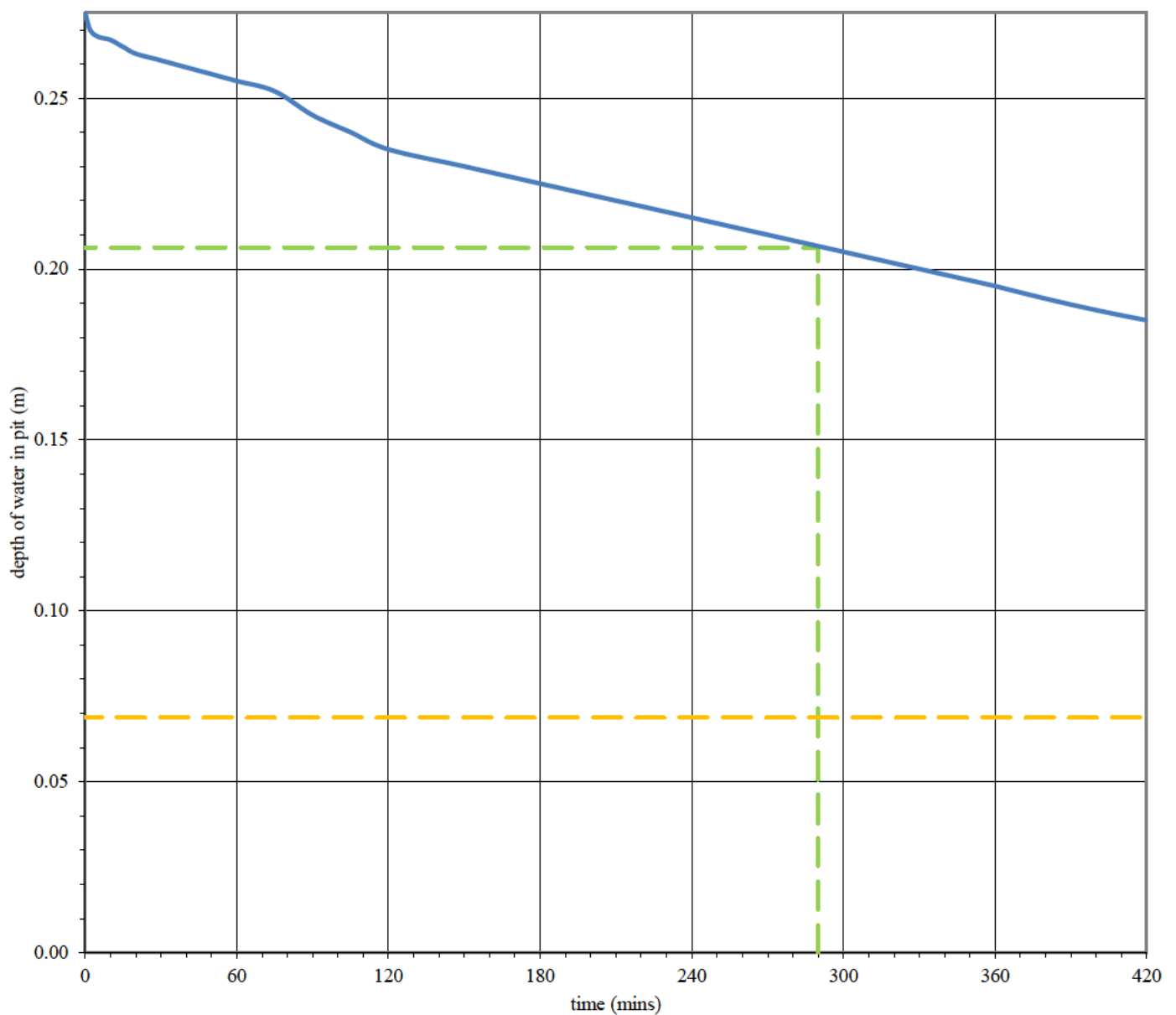
t_{p75-25} =

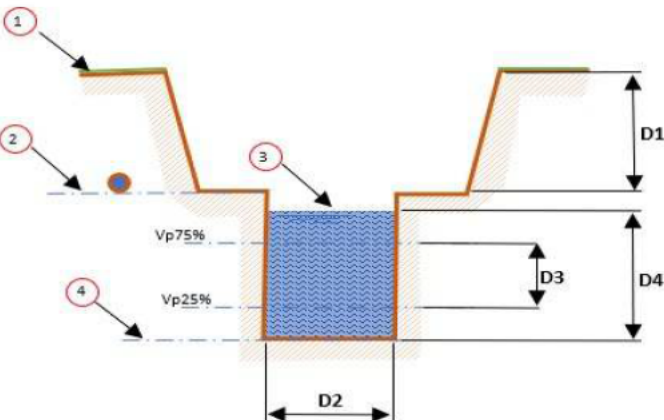
Time for Water Level to Fall between 75% & 25% Effective Depths

BS6297:2007 - SOIL INFILTRATION TEST



PROJECT No.	SITE	TEST No.	
25-3633A	120 Movilla Road, Newtownards	TP-03A	
Effective Water Depth @ Vp 75%	Effective Water Depth @ Vp 25%	t(p75) Time for Water Level to Drain to 75% Effective Depth	t(p25) Time for Water Level to Drain to 25% Effective Depth
0.20625	0.06875	290	1300
Time Difference Between Vp 75% & 25% (mins)	Time Difference Between Vp 75% & 25% (Secs)	Infiltration Rate Vp (Sec/mm)	Hydraulic Conductivity (m/sec)
1010	60600	404	2.5E-06

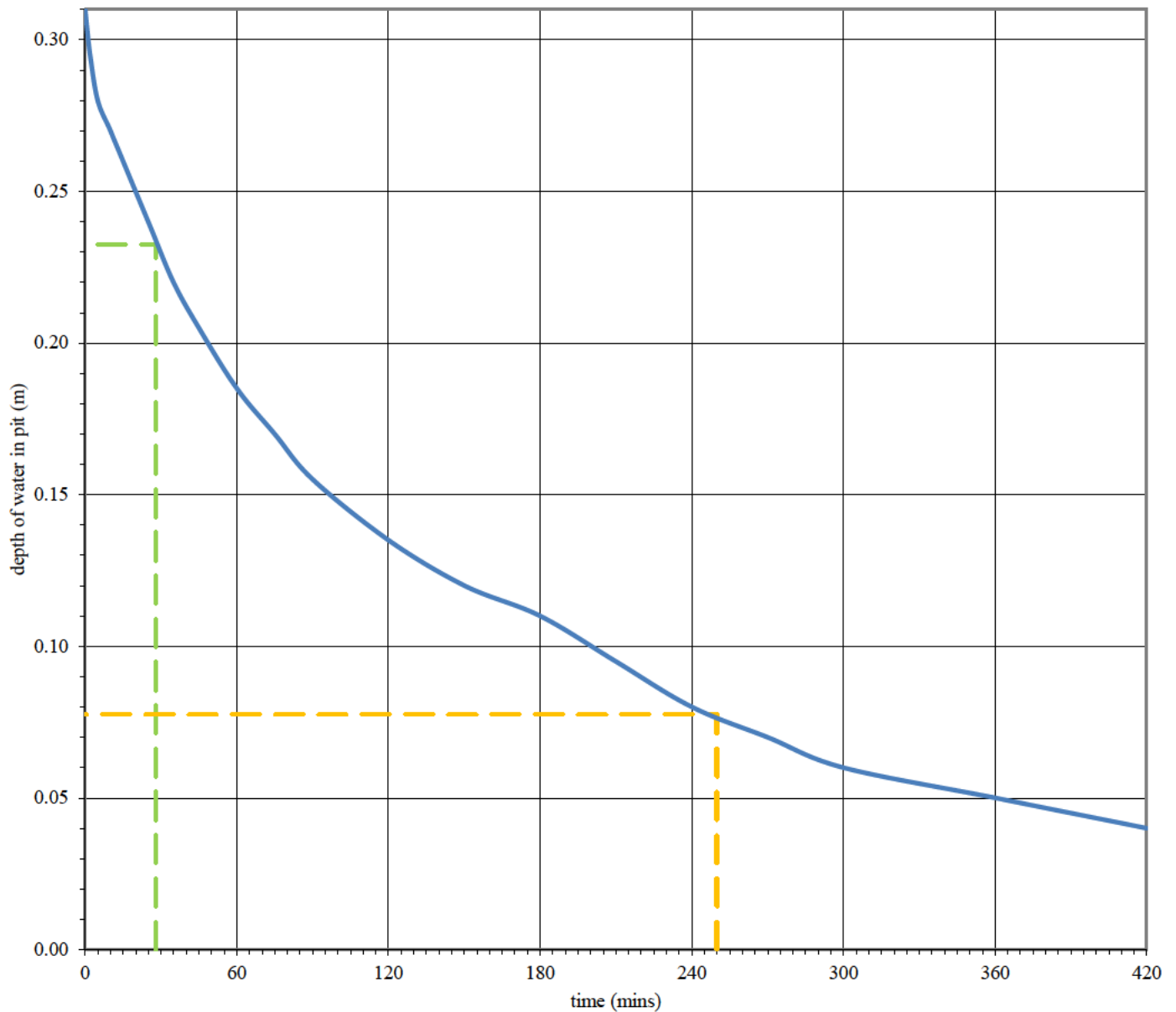


BS6297:2007 - SOIL INFILTRATION TEST					 GroundCheck		
PROJECT No.		SITE		TEST No.			
25-3633A		120 Movilla Road, Newtownards		TP-03A			
CLIENT		TEST DATE		WEATHER CONDITIONS		TEST PIT DEPTH (m)	
██████████		28/05/2025		Dry		1.00	
TRIAL PIT LOG	Depth (m)	Strata Description				Groundwater Strikes (m)	
	0	Soft to firm, dark greyish brown to brownish grey, gravelly, sandy, locally slightly organic, clayey SILT/silty CLAY with low to medium cobble content, low boulder content, and occasional broken bricks and concrete block, pockets of topsoil and brown clay. MADE GROUND				Dry	
	1						
SUMP DIMENSIONS		Width (m)	Length (m)	INFILTRATION RATE Vp (Secs/mm)			
Top dimensions		0.35	0.4	89			
Base dimensions		0.35	0.4				
Sump Depth (m)		0.31					
Water Level at Start Test		0					
Time (mins)	Depth to water surface (mm)	Depth of water in pit (m)					
0	0	0.310					
2	15	0.295					
5	30	0.280					
10	40	0.270					
15	50	0.260					
25	70	0.240					
35	90	0.220					
45	105	0.205					
60	125	0.185					
75	140	0.170					
90	155	0.155					
120	175	0.135					
150	190	0.120					
180	200	0.110					
210	215	0.095					
240	230	0.080					
270	240	0.070					
300	250	0.060					
360	260	0.050					
420	270	0.040					
		0.310					
			Key 1 Ground Level 2 Invert Level of Infiltration Pipe 3 Water Level in Percolation Test Pit 4 Base of Percolation Test Pit				
			Soil Infiltration Rate: $V_p = \frac{tp_{25} - tp_{75}}{150}$				
			$V_{p75-25} =$ Effective Storage Volume of Pit between 75% & 25% Effective Water Depths $t_{p75-25} =$ Time for Water Level to Fall between 75% & 25% Effective Depths				

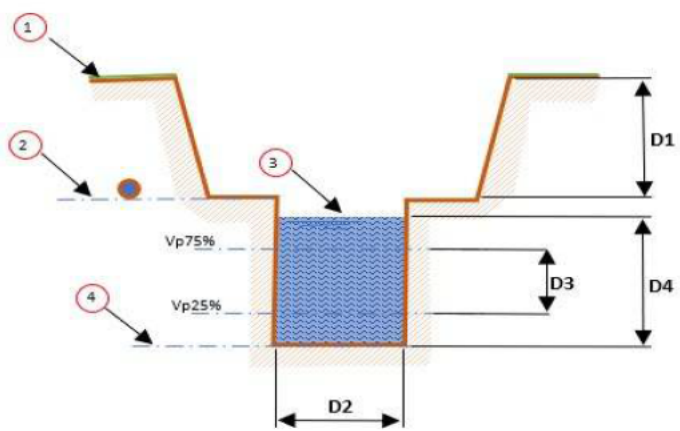
BS6297:2007 - SOIL INFILTRATION TEST



PROJECT No.	SITE	TEST No.	
25-3633A	120 Movilla Road, Newtownards	TP-03A	
Effective Water Depth @ Vp 75%	Effective Water Depth @ Vp 25%	t(p75) Time for Water Level to Drain to 75% Effective Depth	t(p25) Time for Water Level to Drain to 25% Effective Depth
0.2325	0.0775	28	250
Time Difference Between Vp 75% & 25% (mins)	Time Difference Between Vp 75% & 25% (Secs)	Infiltration Rate Vp (Sec/mm)	Hydraulic Conductivity (m/sec)
222	13320	89	1.1E-05



BS6297:2007 - SOIL INFILTRATION TEST					 GroundCheck	
PROJECT No.		SITE		TEST No.		
25-3633A		120 Movilla Road, Newtownards		TP-03C		
CLIENT		TEST DATE		WEATHER CONDITIONS		
[REDACTED]		28/05/2025		Dry		
TRIAL PIT LOG	Depth (m)	Strata Description		Groundwater Strikes (m)		
	0	Soft to firm, dark greyish brown to brownish grey, gravelly, sandy, locally slightly organic, clayey SILT/silty CLAY with low to medium cobble content, low boulder content, and occasional broken bricks and concrete block, pockets of topsoil and brown clay. MADE GROUND		Dry		
	1					
SUMP DIMENSIONS		Width (m)	Length (m)	INFILTRATION RATE Vp (Secs/mm)		
Top dimensions		0.3	0.35	285		
Base dimensions		0.3	0.35			
Sump Depth (m)		0.32				
Water Level at Start Test		0.04				
Time (mins)	Depth to water surface (mm)	Depth of water in pit (m)				
0	40	0.280	0			
15	45	0.275	900			
30	60	0.260	1800			
45	70	0.250	2700			
60	80	0.240	3600			
90	105	0.215	5400			
120	120	0.200	7200			
150	125	0.195	9000			
180	140	0.180	10800			
240	160	0.160	14400			
300	170	0.150	18000			
360	180	0.140	21600			
420	195	0.125	25200			
480	210	0.110	28800			
540	220	0.100	32400			
600	235	0.085	36000			
900	255	0.065	54000			
1500	280	0.040	90000			



Key

- 1 Ground Level
- 2 Invert Level of Infiltration Pipe
- 3 Water Level in Percolation Test Pit
- 4 Base of Percolation Test Pit

Soil Infiltration Rate:

$$V_p = \frac{tp_{25} - tp_{75}}{150}$$

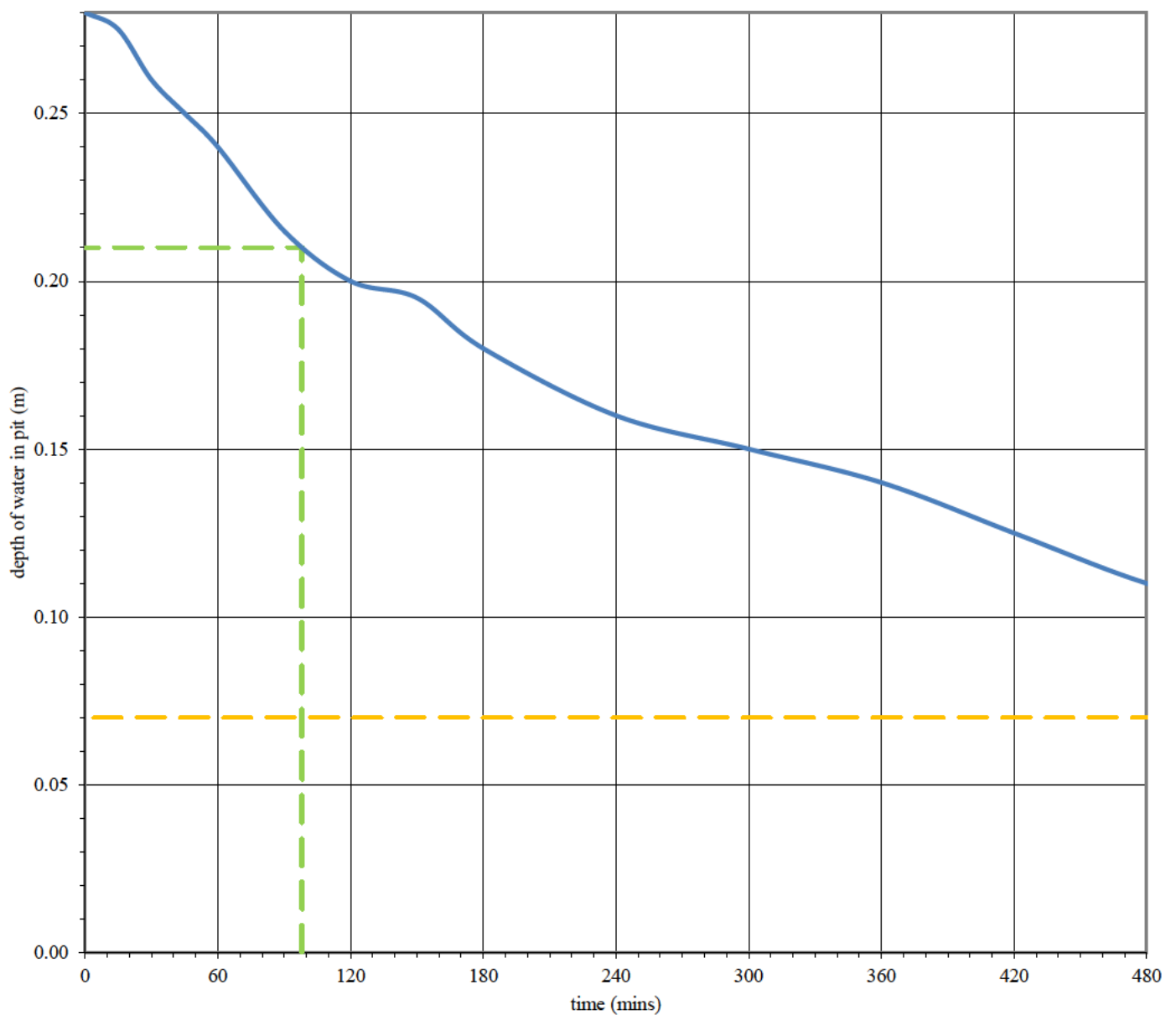
V_{p75-25} = Effective Storage Volume of Pit between 75% & 25% Effective Water Depths

t_{p75-25} = Time for Water Level to Fall between 75% & 25% Effective Depths

BS6297:2007 - SOIL INFILTRATION TEST



PROJECT No.	SITE	TEST No.	
25-3633A	120 Movilla Road, Newtownards	TP-03C	
Effective Water Depth @ Vp 75%	Effective Water Depth @ Vp 25%	t(p75) Time for Water Level to Drain to 75% Effective Depth	t(p25) Time for Water Level to Drain to 25% Effective Depth
0.21	0.07	98	810
Time Difference Between Vp 75% & 25% (mins)	Time Difference Between Vp 75% & 25% (Secs)	Infiltration Rate Vp (Sec/mm)	Hydraulic Conductivity (m/sec)
712	42720	285	3.5E-06



Application Review

Application Details

Application Number:	1047688	Application Date:	18/03/2026
Current Status:	Consent Issued	Application Type:	New Consent
Amount Due:	£145.00	Original Consent Number:	Not Applicable
Payment Id:	[REDACTED]	Final Consent Number:	797/26/1
		File Number:	NC442/26_1

Payment Details

Amount Paid	£145.00	Payment Date:	03/19/2026 10:58:26
-------------	---------	---------------	---------------------

Agent Details

Agent Name:	[REDACTED]
Agent Address:	[REDACTED]
	[REDACTED]
	[REDACTED]
	[REDACTED]
	[REDACTED]
Telephone:	[REDACTED]
Email:	[REDACTED]

Applicant Details

Applicant Name:	[REDACTED]
Applicant Address	[REDACTED]
	[REDACTED]
	[REDACTED]
	[REDACTED]
	[REDACTED]
	[REDACTED]
Telephone:	[REDACTED]
Email:	[REDACTED]

Site Details

Site Address: 120 Movilla Road
Newtownards
Co. Down
BT238RJ

Easting: 351710

Northing: 374690

Discharge Details

Is the consent type a Waterway or Soakaway/Underground Stratum: Soakaway

Is the discharge proposed or existing: Proposed

Is there an NI Water Ltd foul sewer/private sewer within 20 metres available? No

Is there more than one house on the development: No

Do you have a planning application reference number? No

Proposed Soakaway

Type Of System	Pre-constructed septic tank (factory built)
At least 7m from any habitable dwelling	Yes
At least 10m from any waterway	Yes
At least 50m from any drinking water supply	Yes
Width of drainage ditch (m)	0.6
Length of drainage ditch (m)	62.0
Is the system certified to BSEN 12566-1	No

Documents

<u>Document Type</u>	<u>Name</u>	<u>Date Uploaded</u>
Location Map	WO2 Site location.jpg	18/03/2026
Site Plan	WO2 Site plan.jpg	18/03/2026
CE Certification	Septic tank - no certification.pdf	18/03/2026

Percolation Results

<u>Hole No</u>	<u>Test No</u>	<u>Start Date</u>	<u>End Date</u>	<u>Percolation Value</u>
1	1	28 May 2025 09:23:00	28 May 2025 10:21:00	23
	2	28 May 2025 11:27:00	28 May 2025 12:35:00	27
	3	28 May 2025 15:31:00	28 May 2025 16:08:00	14

1

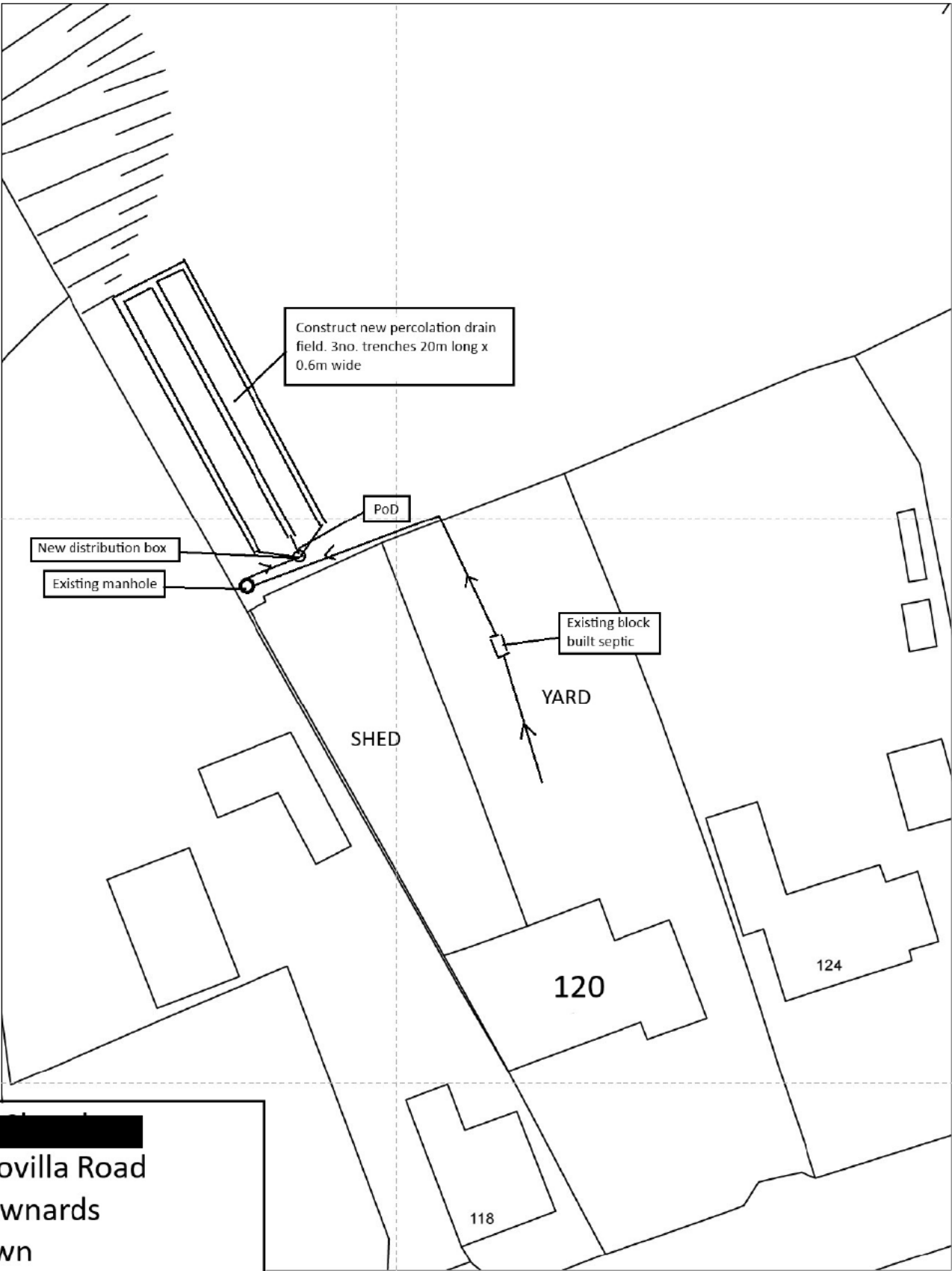
**Hole
Average:
21.33333333333333**

2

1	28 May 2025 08:55:00	28 May 2025 09:57:00	24
2	28 May 2025 12:09:00	28 May 2025 13:02:00	21
3	28 May 2025 14:28:00	28 May 2025 15:38:00	28

**Hole
Average:
24.33333333333333**

COPYRIGHT STATEMENT
Except as otherwise permitted under the Copyright Designs and Patents Act 1988 this map may only be reproduced, stored or transmitted in any form or by any means, with the permission of Land & Property Services.



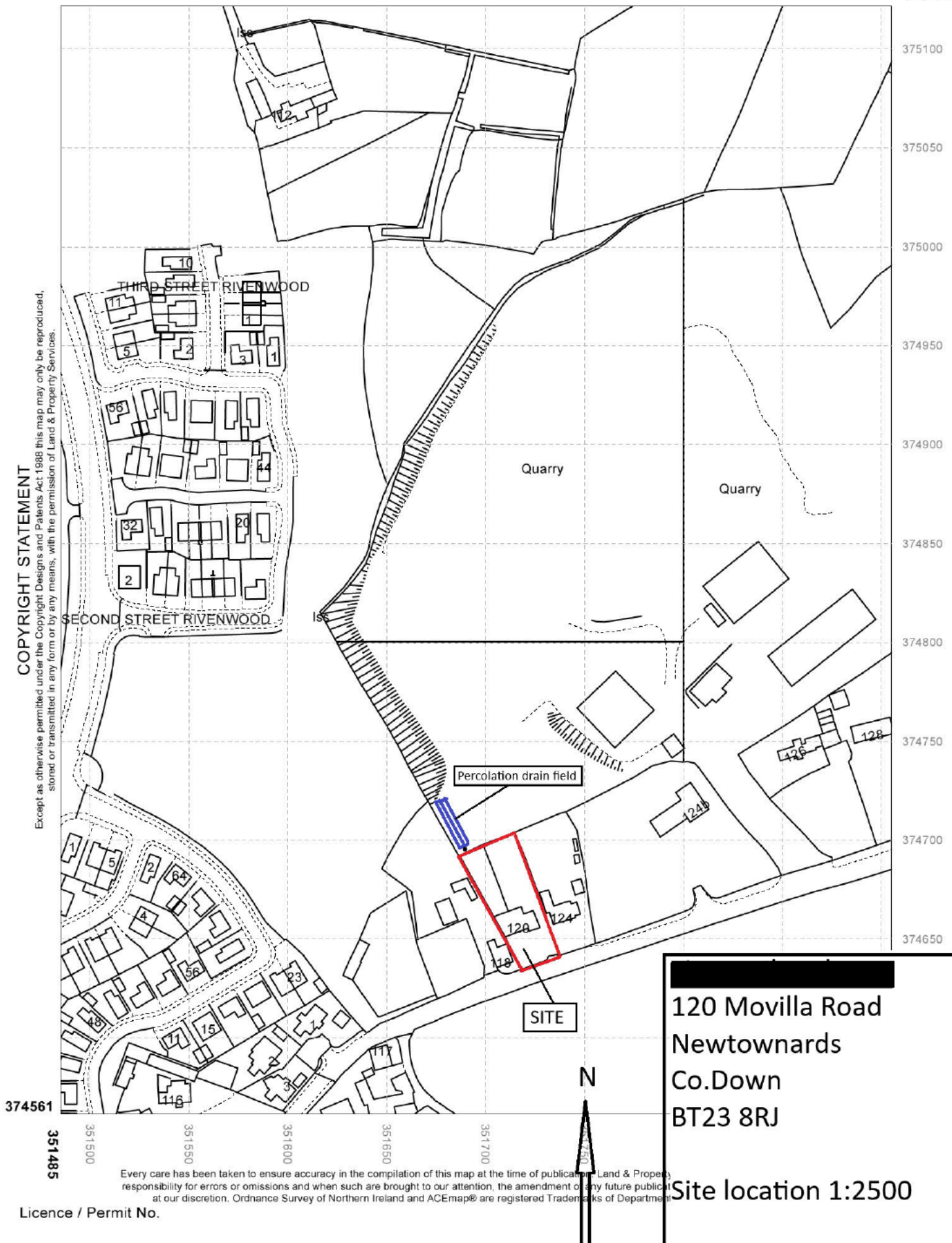
120 Movilla Road
Newtownards
Co.Down
BT23 8RJ

Site plan - Scale 1:500

accuracy in the compilation of this map at the time of publication. Land & Property Services cannot, however, accept and when such are brought to our attention, the amendment of any future publication as appropriate shall be entirely survey of Northern Ireland and ACEmap® are registered Trademarks of Department of Finance and Personnel.

COPYRIGHT STATEMENT

Except as otherwise permitted under the Copyright Designs and Patents Act 1988 this map may only be reproduced, stored or transmitted in any form or by any means, with the permission of Land & Property Services.



CONSENT NO: 797/26/1

FILE NO: NC 442/26_1

DEPARTMENT OF AGRICULTURE ENVIRONMENT & RURAL AFFAIRS

Water (Northern Ireland) Order 1999

Consent to Discharge of Effluent

TO:

Simon Chambers
C/O Russell & Co Solicitors
11 Lower Mary Street
Newtownards
Co.Down
BT23 4JJ

The Department of Agriculture, Environment & Rural Affairs in pursuance of the powers conferred on it by the Water (Northern Ireland) Order 1999 HEREBY CONSENTS to your making a discharge into the Underground Stratum at Easting 351710 and Northing 374690 in accordance with the application dated 18 March 2026 in respect of a discharge of sewage effluent arising from a single domestic dwelling at 120 Movilla Road, Newtownards, Co.Down, BT23 8RJ

SUBJECT TO the following conditions:

1. Should it subsequently be revealed that the ground conditions have not been accurately described in the application form or the sewage treatment system has not been designed and constructed as detailed in the application, this consent shall be considered voidable.
2. The discharge shall consist solely of sewage effluent from the single domestic dwelling at 120 Movilla Road, Newtownards, Co. Down BT23 8RJ.
3. The discharge shall not exceed 1 cubic metre per day.
4. All surface water shall be excluded from the system.
5. The effluent shall be discharged into a sub-surface irrigation system designed and installed in accordance with Departmental guidance which is consistent with BS 6297:2007 + A1:2008.

CONSENT NO: 797/26/1

FILE NO: NC 442/26_1

DEPARTMENT OF AGRICULTURE ENVIRONMENT & RURAL AFFAIRS

Water (Northern Ireland) Order 1999

Consent to Discharge of Effluent

6. The effluent discharged to the sub-surface irrigation system shall not:
 - a. Contain any substance which will cause the water in the underground stratum or in any waterway to be toxic or injurious to fish or other aquatic organisms;
 - b. Contain any substance to such an extent as to cause the receiving waters, or any waters of which the receiving waters are a tributary, to be poisonous or injurious to the spawning grounds, spawn or food of fish in those waters, or otherwise cause damage to the ecology of those waters.
7. The septic tank installed shall be certified to BS EN 12566-1.
8. The septic tank shall be desludged in accordance with the manufacturer's recommendations. Records of desludging shall be kept and made available to NIEA upon request.
9. The consent holder shall be responsible at all times for compliance with these consent conditions.
10. Facilities shall be available to ensure that a representative sample of the discharge can be obtained.
11. **If** the consent holder intends to change anything at the site which will impact on the material detail of this consent, including any accompanying site plan, and/or the composition or quality of the effluent, they must make an application to the Department for a review of the consent. The review application should be made no later than 4 months before the proposed changes will be carried out.
12. Should the consent holder wish to transfer responsibility for this consent they must submit an application for transfer of ownership within 21 days of the transfer taking place.

CONSENT NO: 797/26/1

FILE NO: NC 442/26_1

DEPARTMENT OF AGRICULTURE ENVIRONMENT & RURAL AFFAIRS

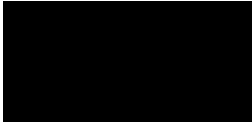
Water (Northern Ireland) Order 1999

Consent to Discharge of Effluent

INFORMATIVES

1. This discharge consent may be reviewed at any time, if the area of discharge or any area downstream, has been, or becomes designated under the European Communities Nature Conservation (Natural Habitats etc) Regulations (Northern Ireland) 1995 or the consent conditions do not meet the requirements of any other European Community Directive.
2. Compliance with the conditions of this consent ensures that this consent meets the requirements of the Urban Waste Water Treatment Regulations (Northern Ireland) 2007.
3. This consent does not grant the right of access to or use of third party land for the installation and/or maintenance of any of the treatment and drainage infrastructure to which this consent relates. It shall be the responsibility of the consent holder to obtain any third party wayleave/access permissions as may be required.

***Dated this 13th day of May 2026
Northern Ireland Environment Agency
Water Regulation Team
17 Antrim Road
Lisburn
Co Antrim
BT28 3AL***


.....

AUTHORISED OFFICER