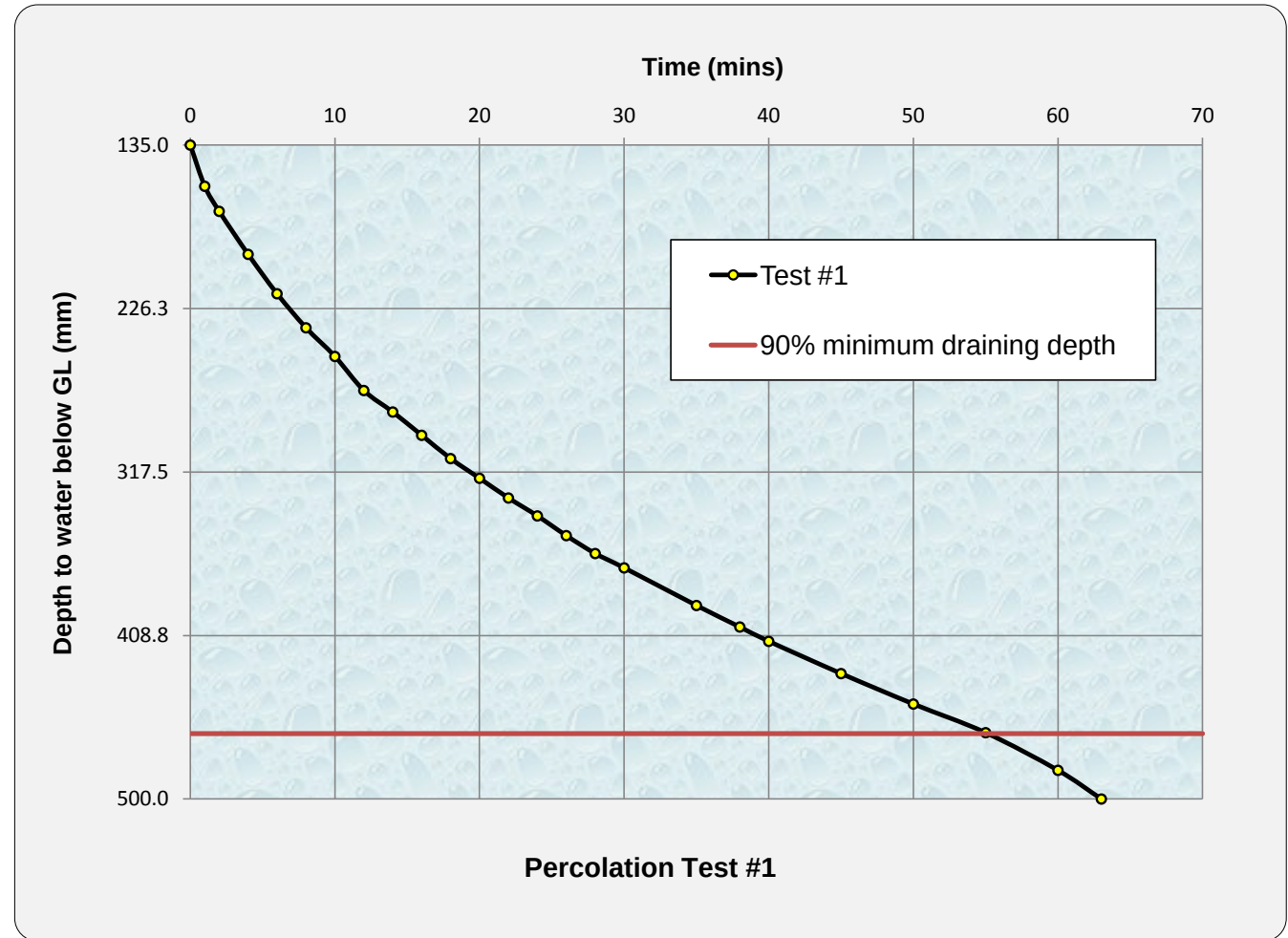


Shallow Soil Infiltration Test Trial Pit (rear garden)-- Test #1

1050mm Length x 350mm Width x 500mm Depth

Testing Time / Date	Time (mins)	Depth to Water Surface	90% depth
08:21:00	0	135	464
	1	158	
	2	172	
	4	196	
	6	218	
	8	237	
	10	253	
	12	272	
	14	284	
	16	297	
	18	310	
	20	321	
	22	332	
	24	342	
	26	353	
	28	363	
	30	371	
	35	392	
	38	404	
	40	412	
	45	430	
	50	447	
	55	463	
	60	484	
09:24:00	63	500	



$$\text{Soil infiltration rate } f = \frac{V_{p75-25}}{A_{S50} \times T_{p75-25} \times 60} = \frac{0.067}{0.879 \times 32.32 \times 60} = 3.937\text{E-}05 \text{ metres / second}$$

SOIL INFILTRATION RATE IS

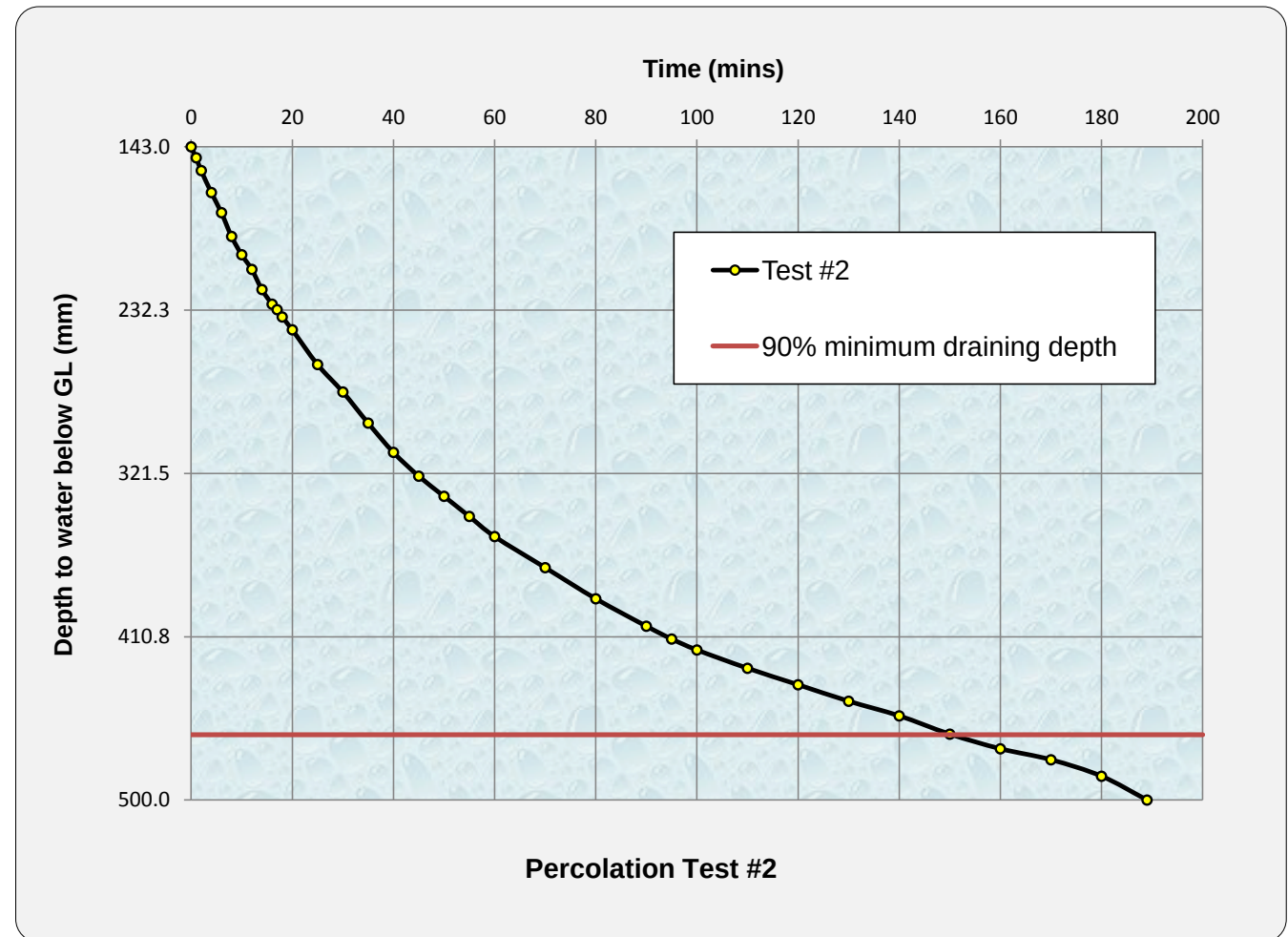
3.937E-05 metres/second

Volume of Water Outflowing -- (V_{p75-25}) 0.067 Cubic Metres
Area of Outflow -- (A_{S50}) 0.879 Square Metres
Time Duration from 75% to 25% -- (T_{p75-25}) 32.32 Minutes

Shallow Soil Infiltration Test Trial Pit (rear garden)-- Test #2

1050mm Length x 350mm Width x 500mm Depth

Testing Time / Date	Time (mins)	Depth to Water Surface	90% depth
09:42:00	0	143	464
	1	149	
	2	156	
	4	168	
	6	179	
	8	192	
	10	202	
	12	210	
	14	221	
	16	229	
	17	232	
	18	236	
	20	243	
	25	262	
	30	277	
	35	294	
	40	310	
	45	323	
	50	334	
	55	345	
	60	356	
	70	373	
	80	390	
	90	405	
	95	412	
	100	418	
	110	428	
	120	437	
	130	446	
	140	454	
	150	464	
	160	472	
	170	478	
	180	487	
12:51:00	189	500	



$$\text{Soil infiltration rate } f = \frac{V_{p75-25}}{A_{s50} \times T_{p75-25} \times 60} = \frac{0.066}{0.867 \times 77.04 \times 60} = 1.636\text{E-}05 \text{ metres / second}$$

SOIL INFILTRATION RATE IS

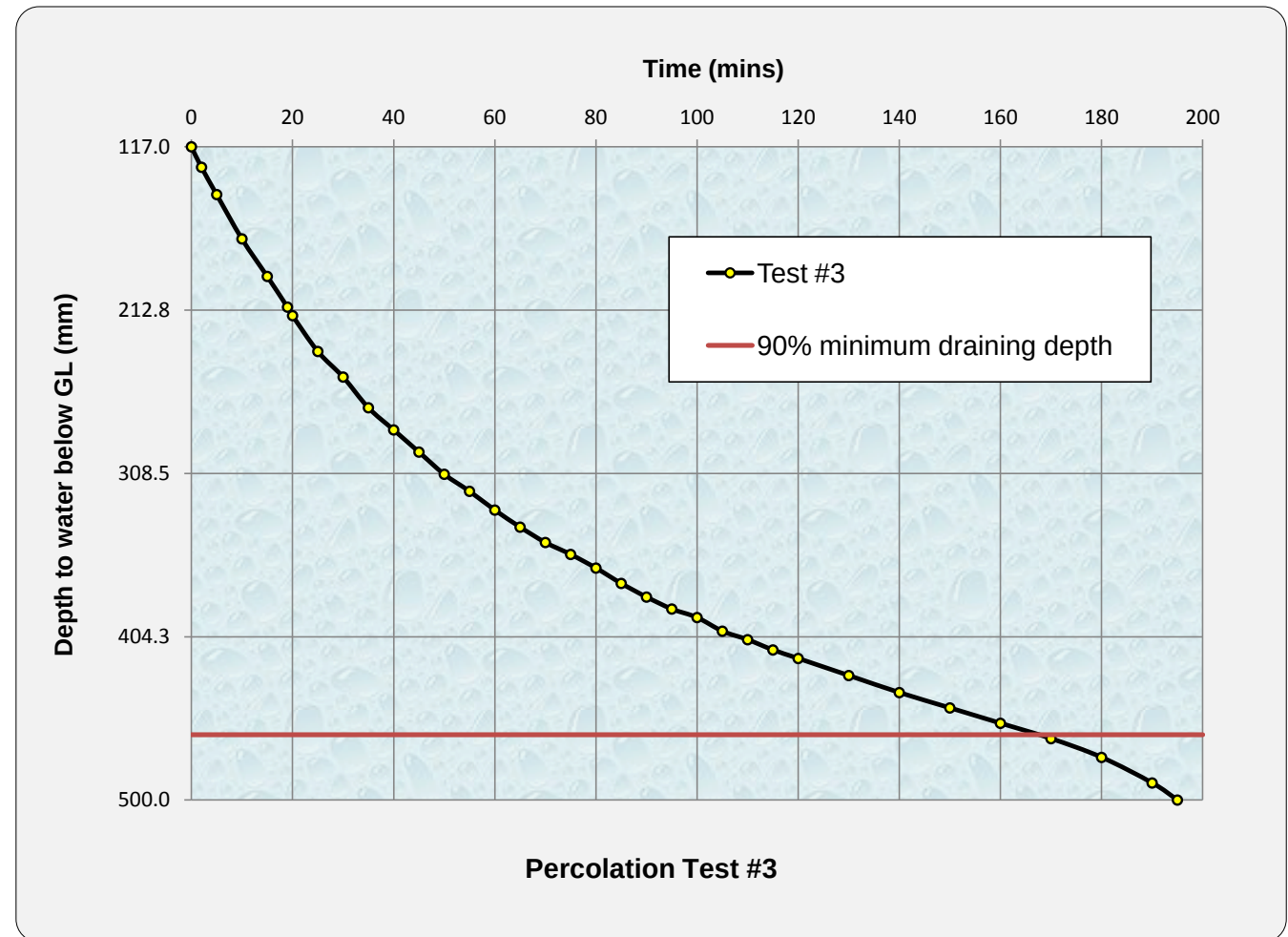
1.636E-05 metres/second

Volume of Water Outflowing -- (V_{p75-25}) 0.066 Cubic Metres
Area of Outflow -- (A_{s50}) 0.867 Square Metres
Time Duration from 75% to 25% -- (T_{p75-25}) 77.04 Minutes

Shallow Soil Infiltration Test Trial Pit (rear garden)-- Test #3

1050mm Length x 350mm Width x 500mm Depth

Testing Time / Date	Time (mins)	Depth to Water Surface	90% depth
13:22:00	0	117	462
	2	129	
	5	145	
	10	171	
	15	193	
	19	211	
	20	216	
	25	237	
	30	252	
	35	270	
	40	283	
	45	296	
	50	309	
	55	319	
	60	330	
	65	340	
	70	349	
	75	356	
	80	364	
	85	373	
	90	381	
	95	388	
	100	393	
	105	401	
	110	406	
	115	412	
	120	417	
	130	427	
	140	437	
	150	446	
	160	455	
	170	464	
	180	475	
	190	490	
16:37:00	195	500	



$$\text{Soil infiltration rate } f = \frac{V_{p75-25}}{A_{s50} \times T_{p75-25} \times 60} = \frac{0.070}{0.904 \times 88.90 \times 60} = 1.460\text{E-}05 \text{ metres / second}$$

SOIL INFILTRATION RATE IS

1.460E-05 metres/second

Volume of Water Outflowing -- (V_{p75-25}) 0.070 Cubic Metres
 Area of Outflow -- (A_{s50}) 0.904 Square Metres
 Time Duration from 75% to 25% -- (T_{p75-25}) 88.90 Minutes

