Soakaway Design Calculations to BRE365 (DG 365 Revised 2016)

Test Reference:	TP1
Site:	Bunker Hill
Client:	JPPC
Test Date:	13/12/2021
Results logged by:	JPPC

Calculations By:	APL
Calculation Date:	14/12/2021
Length (m) =	1.00
Width (m) =	0.60
Depth (m) =	1.00

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File ref:	4598-BUNK-13-001-BRE365.xlsx

First Fill	
Time [Mins]	Test 1 Depth [m]
0.00	0.00
15.00	0.15
38.00	0.27
46.00	0.32
61.00	0.44

Second Fill	
Time [Mins]	Test 2 Depth [m]
0.00	0.00
15.00	0.12
35.00	0.31
47.00	0.39
65.00	0.52

Third Fill	
Time [Mins]	Test 3 Depth [m]
0.00	0.00
7.00	0.11
12.00	0.14
40.00	0.31
54.00	0.45

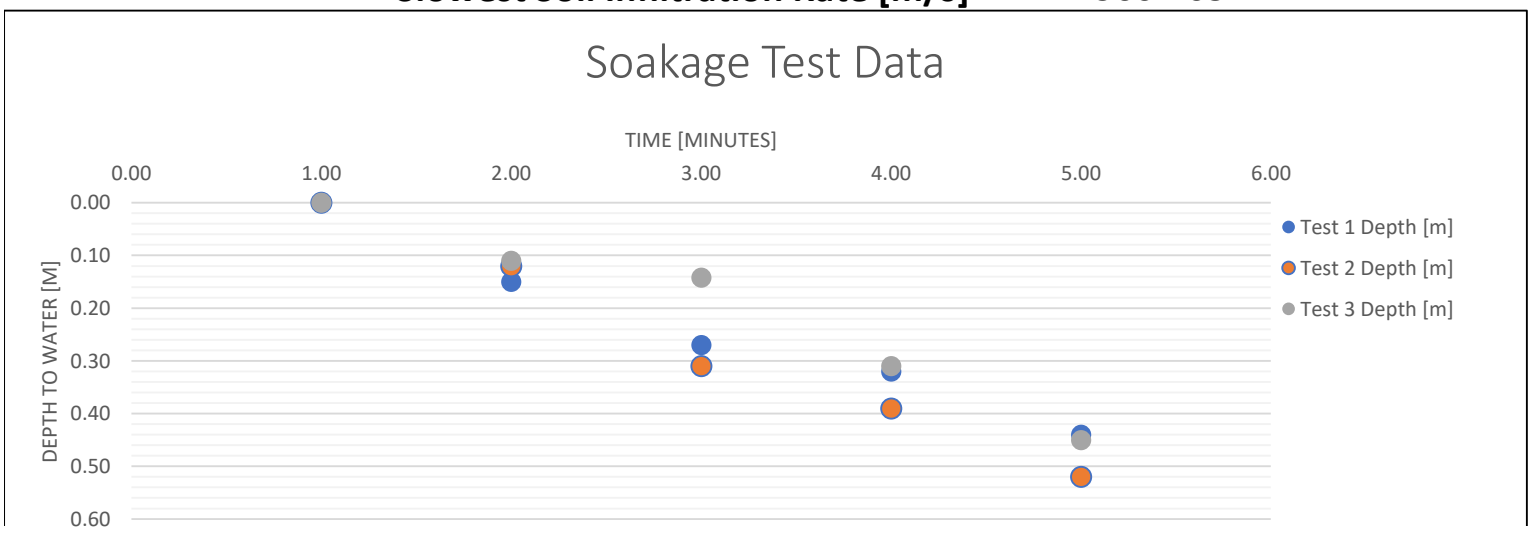
RESULTS

Volume Vp75 - 25 [m³]	0.13200
Area A_{p50} [m²]=	3.0960
Time t_{p75-25} [s] =	2175
Surface Water Soil infiltration rate [m/s]	1.960E-05
Treated Effluent Soil infiltration rate (V_p) [s/mm]	9.89
Surface Water Soil infiltration rate [m/hr]	0.071

RESULTS

Volume Vp75 - 25 [m³]	0.15600
Area A_{p50} [m²]=	2.9680
Time t_{p75-25} [s] =	1823
Surface Water Soil infiltration rate [m/s]	2.884E-05
Treated Effluent Soil infiltration rate (V_p) [s/mm]	7.01
Surface Water Soil infiltration rate [m/hr]	0.104

RESULTS

Volume Vp75 - 25 [m³]	0.13500
Area A_{p50} [m²]=	3.0800
Time t_{p75-25} [s] =	2122
Surface Water Soil infiltration rate [m/s]	2.066E-05
Treated Effluent Soil infiltration rate (V_p) [s/mm]	9.43
Surface Water Soil infiltration rate [m/hr]	0.074

Slowest Soil Infiltration Rate [m/s] = 1.960E-05