

Appendix G Soakaway Test Details

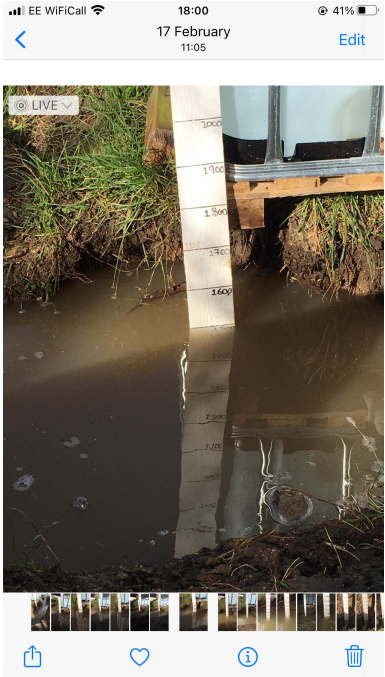
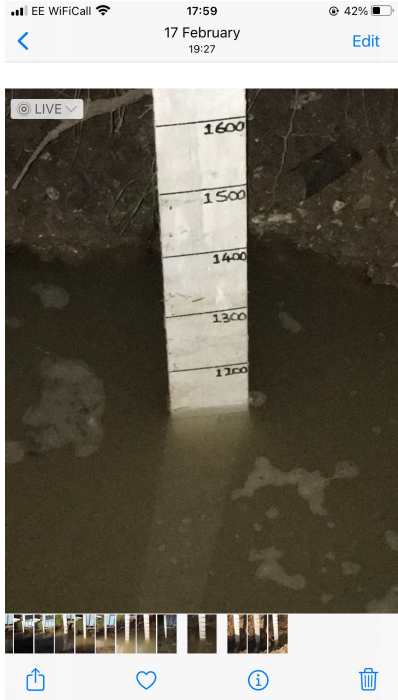
Soakaway Test 1

30 Jan 2022



Soakaway Test 2

17 Feb 2022



Soakaway Test 2

22 Feb 2022



Calculation of Soil Infiltration Rates

Estimation of Soil Infiltration Rate								
49 Warren Way								
Soakaway Trial Pit Observation data								
Test 1		L=2m, W= 0.50m, D= 1.50m	L=2.20m, W= 0.40m, D= 1.80m					
23th Nov 2021								
Depth, m	Time	Date	* Time 25% -75%	Time(hours)	Time (minutes)	Volume outflowing between 75% and 25% effective detph, V p75-25	Mean surface area through which the outflow occurs (pit sides to 50% effective depth and base), ap50 m2	oil Infiltration Rate, f (m/sec
1.6	11.27	23/11/2021						
1.38	12.36	23/11/2021	22.09					
1.3	13.35	23/11/2021		10:55	655	2 x 0.50 x 0.16 = 0.16 m3	(2 x 2 x 0.16)+(2x0.50x0.50)+(2x0.50) = 2.14m2	1.90245E-06
1.22	15.13	23/11/2021	11.02					
1.15	18.29	23/11/2021						
1.07	22.22							
* Time 25% -75% : Time for the outflow between 75% and 25% effective depth								

Estimation of Soil Infiltration Rate								
49 Warren Way								
Soakaway Trial Pit Observation data								
Test 2		L=2m, W= 0.50m, D= 1.50m	L=2.20m, W= 0.40m, D= 1.80m					
17th Feb 2022								
Depth, m	Time	Date	* Time 25% -75%	Time(hours)	Time (minutes)	Volume outflowing between 75% and 25% effective detph, V p75-25	Mean surface area through which the outflow occurs (pit sides to 50% effective depth and base), ap50 m2	oil Infiltration Rate, f (m/sec
1.6	10.56	17/02/2022						
1.4	11.51	17/02/2022	11.51					
1.5	11.05	17/02/2022		7.36	456	2 x 0.50 x 0.23 = 0.23 m3	(2 x 2 x 0.23)+(2x0.50x0.50)+(2x0.50) = 1.42m2	5.92002E-06
1.2	15.04	17/02/2022						
1.17	16.08	17/02/2022	19.27					
1.1	19.27							
* Time 25% -75% : Time for the outflow between 75% and 25% effective depth								

Estimation of Soil Infiltration Rate							
49 Warren Way							
Soakaway Trial Pit Observation data							
Test 3		L=2m, W= 0.50m, D= 1.50m	L=2.20m, W= 0.40m, D= 1.80m				
22nd Feb 2022							
Depth, m	Time	Date	* Time 25% -75%	Time(hours)	Time (minutes)	Volume outflowing between 75% and 25% effective depth, V p75-25	Mean surface area through which the outflow occurs (pit sides to 50% effective depth and base), oil Infiltration Rate, f (m/sec ap50 m2)
1.65	9.05	17/02/2022					
1.4	10.05	17/02/2022	10.05				
1.35	11.04	17/02/2022		04:48	432	2 x 0.50 x 0.25 = 0.25 m3	(2 x 2 x 0.25)+(2x0.50x0.50)+(2x0.50) = 2.50m2
1.3	12.13	17/02/2022	17.17				3.85802E-06
1.15	17.17	17/02/2022					
* Time 25% -75% : Time for the outflow between 75% and 25% effective depth							