

soakaway test

client baxter
project buxton st
locn prop car park
date 26.01.2023

provide a clean vertical sided pit or trench

pit length	0.9	m
pit width	0.4	m
pit depth b GL	1.5	m
pit equiv dia	0.1	m
pit base area	0.36	sqm

TEST	DATE	INFILTRATION RATE	
		m/s	m/hr
TEST 1	26.01.2023	2.7E-05	9.8E-02
TEST 2	26.01.2023	2.0E-05	7.2E-02
TEST 3	26.01.2023	1.6E-05	5.8E-02
Design infiltration rate		2.1E-05	7.6E-02

soakaway test input sheet

client Baxter
project Buxton St, Heywood
locn Prop car park
date 26.01.2023
recorders name Brad Baxter

TEST 1		TEST 2		TEST 3	
DATE		DATE		DATE	
time	depth WL	time	depth WL	time	depth WL
hr:min	mm	hr:min	mm	hr:min	mm
06:40	0	10:20	0	14:00	0
06:50	0.255	10:30	0.29	14:10	0.28
07:00	0.395	10:40	0.365	14:20	0.375
07:10	0.58	10:50	0.425	14:30	0.445
07:20	0.7	11:00	0.475	14:40	0.5
07:30	0.785	11:10	0.54	14:50	0.56
07:40	0.84	11:20	0.6	15:00	0.61
07:50	0.89	11:30	0.67	15:10	0.67
08:00	0.93	11:40	0.73	15:20	0.725
08:10	1.03	11:50	0.8	15:30	0.785
08:20	1.08	12:00	0.86	15:40	0.825
08:30	1.12	12:10	0.91	15:50	0.88
08:40	1.185	12:20	0.97	16:00	0.925
08:50	1.25	12:30	1.035	16:10	0.985
09:00	1.305	12:40	1.09	16:20	1.04
09:10	1.35	12:50	1.18	16:30	1.1
09:20	1.39	13:00	1.23	16:40	1.155
09:30	1.435	13:10	1.3	16:50	1.195
09:40	1.485	13:20	1.37	17:00	1.25
09:50	1.5	13:30	1.43	17:10	1.33
		13:40	1.485	17:20	1.39

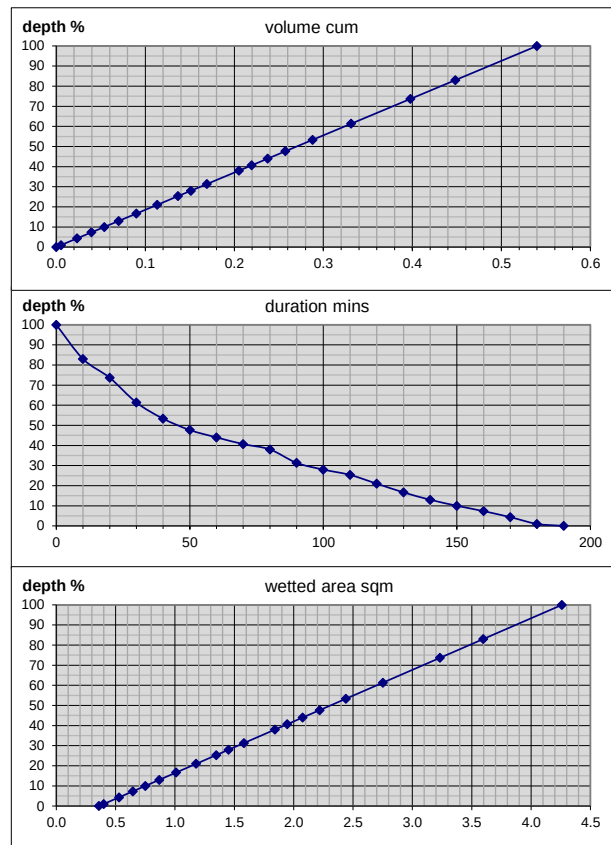
test 1
26.01.2023

hr	time min	duration mins	depth from GL m	depth from base m	depth from wt m	% depth	wetted area sqm	volume cum
6	40	0	0	1.5	1.5	100	4.3	0.5
6	50	10	0.255	1.245	1.245	83	3.6	0.4
7	0	20	0.395	1.105	1.105	74	3.2	0.4
7	10	30	0.58	0.92	0.92	61	2.8	0.3
7	20	40	0.7	0.8	0.8	53	2.4	0.3
7	30	50	0.785	0.715	0.715	48	2.2	0.3
7	40	60	0.84	0.66	0.66	44	2.1	0.2
7	50	70	0.89	0.61	0.61	41	1.9	0.2
8	0	80	0.93	0.57	0.57	38	1.8	0.2
8	10	90	1.03	0.47	0.47	31	1.6	0.2
8	20	100	1.08	0.42	0.42	28	1.5	0.2
8	30	110	1.12	0.38	0.38	25	1.3	0.1
8	40	120	1.185	0.315	0.315	21	1.2	0.1
8	50	130	1.25	0.25	0.25	17	1.0	0.1
9	0	140	1.305	0.195	0.195	13	0.9	0.1
9	10	150	1.35	0.15	0.15	10	0.8	0.1
9	20	160	1.39	0.11	0.11	7	0.6	0.0
9	30	170	1.435	0.065	0.065	4	0.5	0.0
9	40	180	1.485	0.015	0.015	1	0.4	0.0
9	50	190	1.5	0	0	0	0.4	0.0

volume @ 75% depth
 volume @ 25% depth
 time @ 75% depth
 time @ 25% depth
 pit surface area @ 50% depth

from charts	
V75	0.45 cu m
V25	0.13 cu m
t75	20 mins
t25	107 mins
Ap50	2.25 sq m

infiltration rate **f** **2.7E-05** m/s



test 2

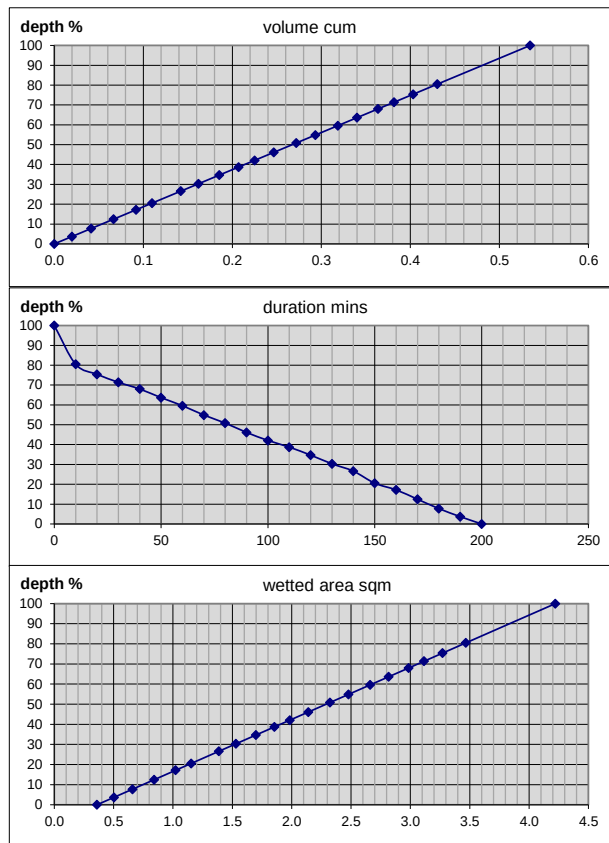
26.01.2023

hr	time min	duration mins	depth from GL m	depth from base m	depth from wt m	% depth	wetted area sqm	volume cum
			m	m	m			
10	20	0	0	1.5	1.485	100	4.2	0.5
10	30	10	0.29	1.21	1.195	80	3.5	0.4
10	40	20	0.365	1.135	1.12	75	3.3	0.4
10	50	30	0.425	1.075	1.06	71	3.1	0.4
11	0	40	0.475	1.025	1.01	68	3.0	0.4
11	10	50	0.54	0.96	0.945	64	2.8	0.3
11	20	60	0.6	0.9	0.885	60	2.7	0.3
11	30	70	0.67	0.83	0.815	55	2.5	0.3
11	40	80	0.73	0.77	0.755	51	2.3	0.3
11	50	90	0.8	0.7	0.685	46	2.1	0.2
12	0	100	0.86	0.64	0.625	42	2.0	0.2
12	10	110	0.91	0.59	0.575	39	1.9	0.2
12	20	120	0.97	0.53	0.515	35	1.7	0.2
12	30	130	1.035	0.465	0.45	30	1.5	0.2
12	40	140	1.09	0.41	0.395	27	1.4	0.1
12	50	150	1.18	0.32	0.305	21	1.2	0.1
13	0	160	1.23	0.27	0.255	17	1.0	0.1
13	10	170	1.3	0.2	0.185	12	0.8	0.1
13	20	180	1.37	0.13	0.115	8	0.7	0.0
13	30	190	1.43	0.07	0.055	4	0.5	0.0
13	40	200	1.485	0.015	0	0	0.4	0.0

volume @ 75% depth
volume @ 25% depth
time @ 75% depth
time @ 25% depth
pit surface area @ 50% depth

from charts	
V75	0.45 cu m
V25	0.13 cu m
t75	22 mins
t25	140 mins
Ap50	2.25 sq m

infiltration rate f **2.0E-05** m/s



test 3

26.01.2023

hr	time min	duration mins	depth from GL m	depth from base m	depth from wt m	% depth	wetted area sqm	volume cum
14	0	0	0	1.5	1.39	100	4.0	0.5
14	10	10	0.28	1.22	1.11	80	3.2	0.4
14	20	20	0.375	1.125	1.015	73	3.0	0.4
14	30	30	0.445	1.055	0.945	68	2.8	0.3
14	40	40	0.5	1	0.89	64	2.7	0.3
14	50	50	0.56	0.94	0.83	60	2.5	0.3
15	0	60	0.61	0.89	0.78	56	2.4	0.3
15	10	70	0.67	0.83	0.72	52	2.2	0.3
15	20	80	0.725	0.775	0.665	48	2.1	0.2
15	30	90	0.785	0.715	0.605	44	1.9	0.2
15	40	100	0.825	0.675	0.565	41	1.8	0.2
15	50	110	0.88	0.62	0.51	37	1.7	0.2
16	0	120	0.925	0.575	0.465	33	1.6	0.2
16	10	130	0.985	0.515	0.405	29	1.4	0.1
16	20	140	1.04	0.46	0.35	25	1.3	0.1
16	30	150	1.1	0.4	0.29	21	1.1	0.1
16	40	160	1.155	0.345	0.235	17	1.0	0.1
16	50	170	1.195	0.305	0.195	14	0.9	0.1
17	0	180	1.25	0.25	0.14	10	0.7	0.1
17	10	190	1.33	0.17	0.06	4	0.5	0.0
17	20	200	1.39	0.11	0	0	0.4	0.0

volume @ 75% depth
volume @ 25% depth
time @ 75% depth
time @ 25% depth
pit surface area @ 50% depth

from charts		
V75	0.38	cu m
V25	0.12	cu m
t75	15	mins
t25	140	mins
Ap50	2.15	sq m

infiltration rate f **1.6E-05** m/s

