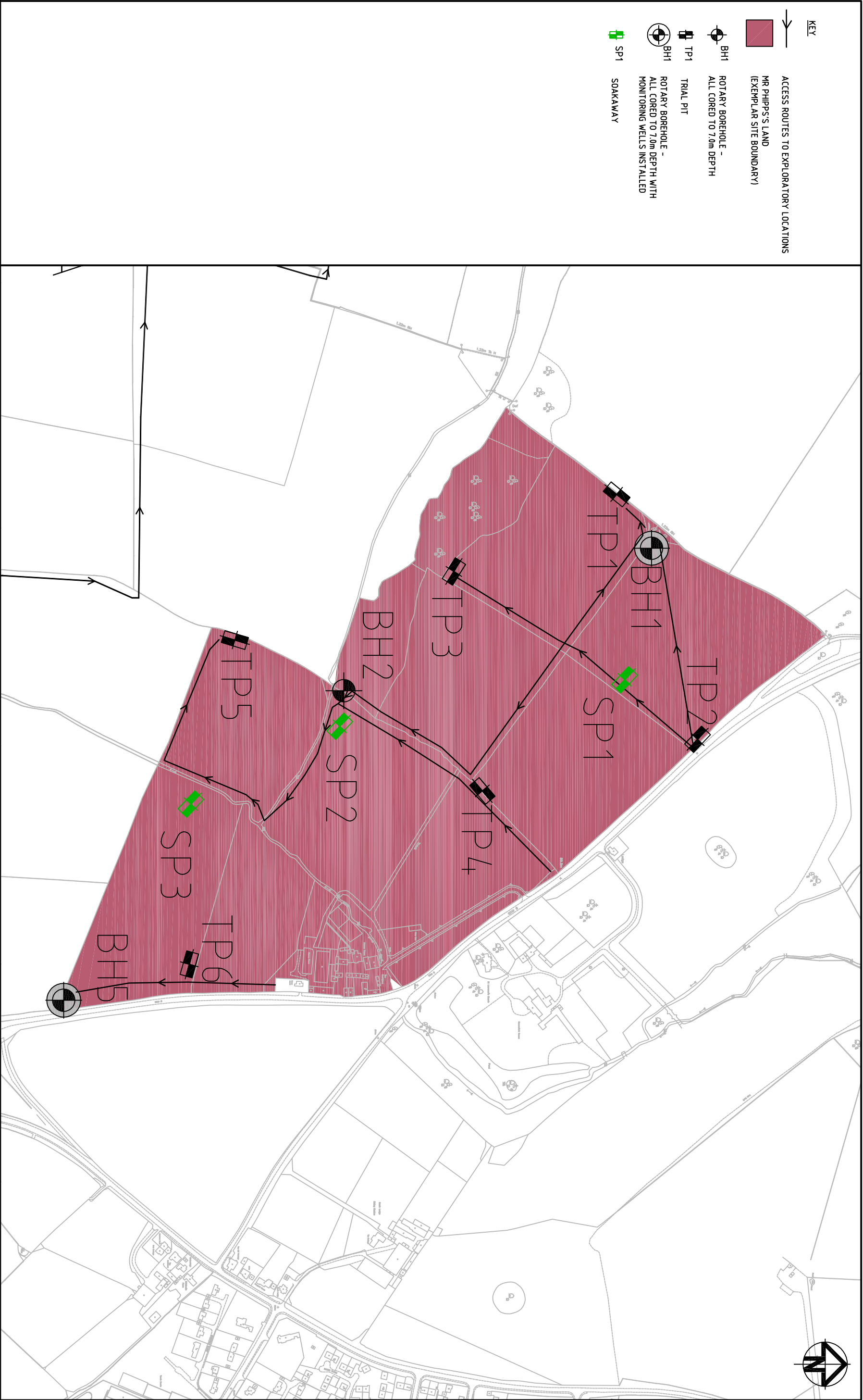




02	SOAKAWAY LOCATIONS ADDED	01/10/10
01	FIRST ISSUE	16/09/10
Issue	Description	Date

Client



Status			
FINAL			
Scales	1:12,500	Current Issue Signatures	
Original Size	A3	Author	R.JORDAN
Height		Checker	D.THOMAS
Datum	-	Approver	C.PLUMB
Grid	GRID	© Copyright reserved	
Filename2004-UA001881-UP33D-02.DWG			

Project

BICESTER
ECO TOWN

Title

EXEMPLAR SITE
WITH EXPLORATORY
HOLE LOCATIONS



Hyder Consulting (UK) Limited
29, Bressenden Place
London
SW1S 5DZ

Drawing No.

2004 — UA001881 — 02

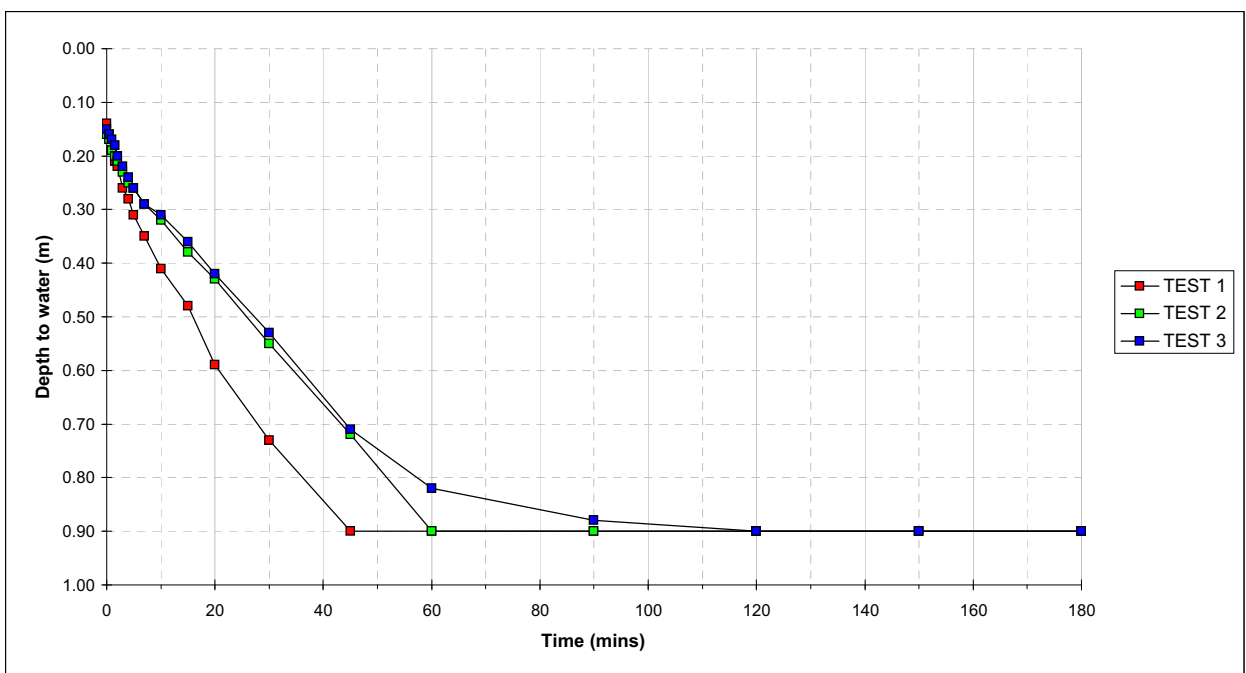
Project No.

Issue

50mm on Original

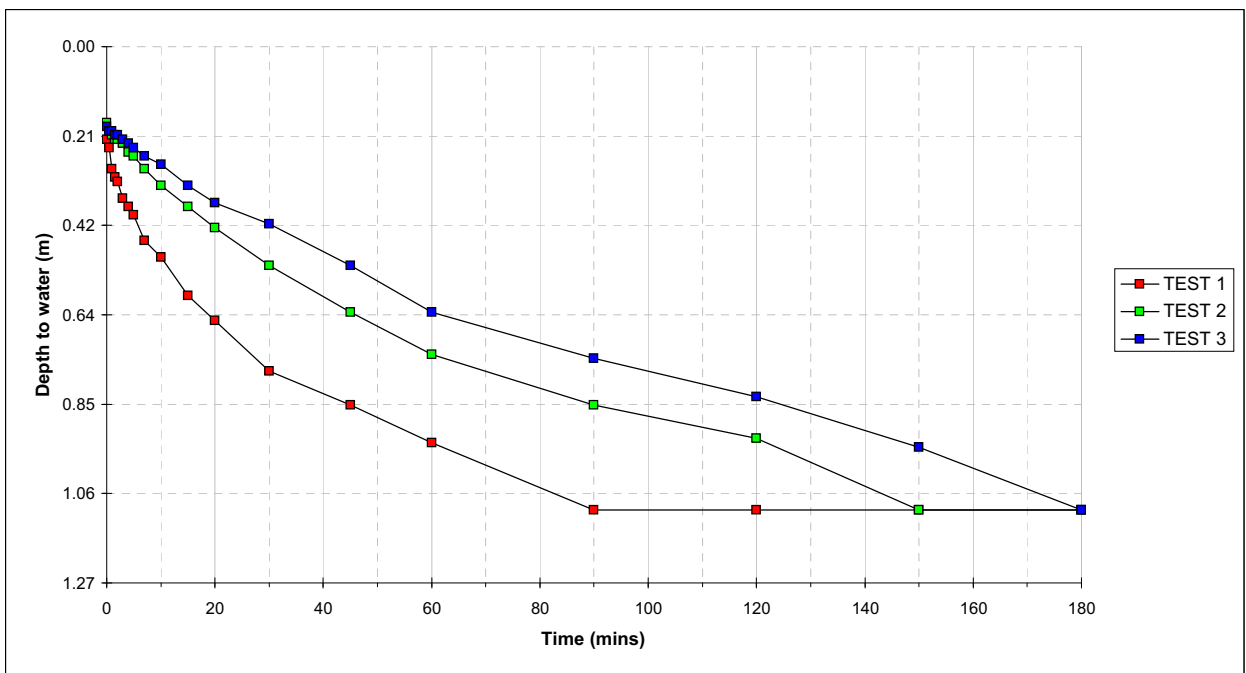
C.J. ASSOCIATES GEOTECHNICAL LTD. SOIL INFILTRATION RATE TEST See B.R.E. Digest 365, 1991, Soakaway Design.		Site.....Bicester		Trial Pit Number.....SP1		
		Job Number.....Y0964		Length.....1.95 m		
		Date of Test.....05.10.2010		Width.....0.30 m		
				Depth.....0.90 m		
				Groundwater Level.....Dry		
	TEST 1		TEST 2		TEST 3	
	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
	0.0	0.14	0.0	0.16	0.0	0.15
	0.5	0.16	0.5	0.17	0.5	0.16
	1.0	0.19	1.0	0.19	1.0	0.17
	1.5	0.21	1.5	0.20	1.5	0.18
	2.0	0.22	2.0	0.21	2.0	0.20
	3.0	0.26	3.0	0.23	3.0	0.22
	4.0	0.28	4.0	0.25	4.0	0.24
	5.0	0.31	5.0	0.26	5.0	0.26
	7.0	0.35	7.0	0.29	7.0	0.29
	10	0.41	10	0.32	10	0.31
	15	0.48	15	0.38	15	0.36
	20	0.59	20	0.43	20	0.42
	30	0.73	30	0.55	30	0.53
	40	0.90	45	0.72	45	0.71
	60	0.90	58	0.90	60	0.82
	90	0.90	90	0.90	90	0.88
	120	0.90	110	0.90	95	0.90
	150	0.90	150	0.90	150	0.90
180	0.90	180	0.90	165	0.90	
Effective Storage Depth	m	0.76		0.75		
75% Effective Storage Depth	m	0.57		0.56		
(i.e. depth below GL)	m	0.33		0.35		
25% Effective Storage Depth	m	0.19		0.19		
(i.e. depth below GL)	m	0.71		0.72		
Effective Storage Depth 75%-25%	m	0.38		0.37		
Time to fall to 75% effective depth	mins	6.00		13.00		
Time to fall to 25% effective depth	mins	28.00		45.00		
V (75%-25%)	m3	0.22		0.22		
a (50%)	m2	2.30		2.25		
t (75%-25%)	mins	22.00		32.00		
SOIL INFILTRATION RATE	m/s	7.34E-05		5.01E-05		
				5.03E-05		

DESIGN SOIL INFILTRATION RATE, f **5.01E-05 m/s**



C.J. ASSOCIATES GEOTECHNICAL LTD. SOIL INFILTRATION RATE TEST See B.R.E. Digest 365, 1991, Soakaway Design.		Site.....Bicester		Trial Pit Number.....SP2		
		Job Number.....Y0964		Length.....1.50 m		
		Date of Test.....06.10.2010		Width.....0.30 m		
				Depth.....1.10 m		
				Groundwater Level.....Dry		
	TEST 1		TEST 2		TEST 3	
	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
	0.0	0.22	0.0	0.18	0.0	0.19
	0.5	0.24	0.5	0.20	0.5	0.20
	1.0	0.29	1.0	0.21	1.0	0.20
	1.5	0.31	1.5	0.22	1.5	0.21
	2.0	0.32	2.0	0.22	2.0	0.21
	3.0	0.36	3.0	0.23	3.0	0.22
	4.0	0.38	4.0	0.25	4.0	0.23
	5.0	0.40	5.0	0.26	5.0	0.24
	7.0	0.46	7.0	0.29	7.0	0.26
	10	0.50	10	0.33	10	0.28
	15	0.59	15	0.38	15	0.33
	20	0.65	20	0.43	20	0.37
	30	0.77	30	0.52	30	0.42
	45	0.85	45	0.63	45	0.52
	60	0.94	58	0.73	60	0.63
	75	1.10	90	0.85	90	0.74
	120	1.10	120	0.93	120	0.83
	150	1.10	136	1.10	150	0.95
180	1.10	180	1.10	178	1.10	
Effective Storage Depth	m	0.88		0.91		
75% Effective Storage Depth	m	0.66		0.68		
(i.e. depth below GL)	m	0.44		0.42		
25% Effective Storage Depth	m	0.22		0.23		
(i.e. depth below GL)	m	0.88		0.87		
Effective Storage Depth 75%-25%	m	0.44		0.46		
Time to fall to 75% effective depth	mins	6.50		30.00		
Time to fall to 25% effective depth	mins	50.00		135.00		
V (75%-25%)	m3	0.20		0.20		
a (50%)	m2	2.03		2.09		
t (75%-25%)	mins	43.50		105.00		
SOIL INFILTRATION RATE	m/s	3.73E-05		1.56E-05		

DESIGN SOIL INFILTRATION RATE, f	1.56E-05 m/s
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C.J. ASSOCIATES GEOTECHNICAL LTD. SOIL INFILTRATION RATE TEST See B.R.E. Digest 365, 1991, Soakaway Design.		Site.....Bicester		Trial Pit Number.....SP3		
		Job Number.....Y0964		Length.....2.10 m		
		Date of Test.....05.10.2010		Width.....0.30 m		
				Depth.....1.00 m		
				Groundwater Level.....Dry		
	TEST 1		TEST 2		TEST 3	
	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)	Time(min)	Depth to Water (m)
	0.0	0.35	0.0	0.30	0.0	0.24
	0.5	0.37	0.5	0.32	0.5	0.26
	1.0	0.38	1.0	0.34	1.0	0.28
	1.5	0.39	1.5	0.35	1.5	0.29
	2.0	0.39	2.0	0.35	2.0	0.29
	3.0	0.42	3.0	0.36	3.0	0.31
	4.0	0.44	4.0	0.37	4.0	0.32
	5.0	0.45	5.0	0.39	5.0	0.33
	7.0	0.48	7.0	0.41	7.0	0.35
	10	0.51	10	0.42	10	0.37
	15	0.57	15	0.45	15	0.40
	20	0.61	20	0.47	20	0.44
	30	0.68	30	0.50	30	0.51
	45	0.79	45	0.58	45	0.55
	55	1.00	60	0.67	60	0.62
	90	1.00	90	0.82	90	0.70
	120	1.00	110	1.00	120	0.86
	150	1.00	150	1.00	150	0.91
180	1.00	180	1.00	165	1.00	
Effective Storage Depth	m	0.65	0.70	0.76		
75% Effective Storage Depth	m	0.49	0.53	0.57		
(i.e. depth below GL)	m	0.51	0.48	0.43		
25% Effective Storage Depth	m	0.16	0.18	0.19		
(i.e. depth below GL)	m	0.84	0.83	0.81		
Effective Storage Depth 75%-25%	m	0.33	0.35	0.38		
Time to fall to 75% effective depth	mins	10.00	22.00	18.00		
Time to fall to 25% effective depth	mins	50.00	92.00	110.00		
V (75%-25%)	m3	0.20	0.22	0.24		
a (50%)	m2	2.19	2.31	2.45		
t (75%-25%)	mins	40.00	70.00	92.00		
SOIL INFILTRATION RATE	m/s	3.90E-05	2.27E-05	1.77E-05		

DESIGN SOIL INFILTRATION RATE, f	1.77E-05 m/s
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