

BOREHOLE INFILTRATION TESTING

Project Name: Intensive Development High Density Residential
 Site: Someplace, Vermont
 Date: 9/15/2008
 Percolation Test By: Jimmy James, ST #0000
 Calculation By: Jimmy James, ST #0000

Infiltration Test No.: I-1

Existing elevation: 93.8
 Proposed practice area elev. 90
 Thickness of filter bed 2
 Proposed bottom of practice = 88
 Test/Bottom of borehole elev = 86 (2 ft below bottom of practice)

Borehole Characteristics: 6" diameter, 24-inch solid casing

Presoak Borehole for 24-hrs. Presoak Start Time: 9/15/2008 8:00 AM
 Presoak End Time: 9/16/2008 9:15 AM

Cycle No.	Start Time			End Time			Measured drop from top of casing (inches)	Rate (in/hr)
	H	M	S	H	M	S		
1	9	30	0	10	30	0	5.50	5.50
2	10	45	5	11	45	55	7.00	6.90
3	12	0	0	13	1	0	6.50	6.39
4	13	15	48	14	16	0	6.00	5.98
Average Infiltration Rate =								6.19
Design Infiltration Rate =								3.10 (Factor of safety of 2)

Infiltration Test No.: I-2

Existing elevation: 92.5
 Proposed practice area elev. 90
 Thickness of filter bed 2
 Proposed bottom of practice = 88
 Test/Bottom of borehole elev = 86 (2 ft below bottom of practice)

Borehole Characteristics: 6" diameter, 24-inch solid casing

Presoak Borehole for 24-hrs. Presoak Start Time: 9/15/2016 8:15 AM
 Presoak End Time: 9/16/2016 8:45 AM

Cycle No.	Start Time			End Time			Measured drop from top of casing (inches)	Rate (in/hr)
	H	M	S	H	M	S		
1	8	45	0	9	50	0	6.50	6.00
2	9	56	5	11	1	0	6.75	6.24
3	12	5	0	13	10	0	5.50	5.08
4	13	15	48	14	20	0	6.50	6.07
Average Infiltration Rate =								5.85
Design Infiltration Rate =								2.92 (Factor of safety of 2)