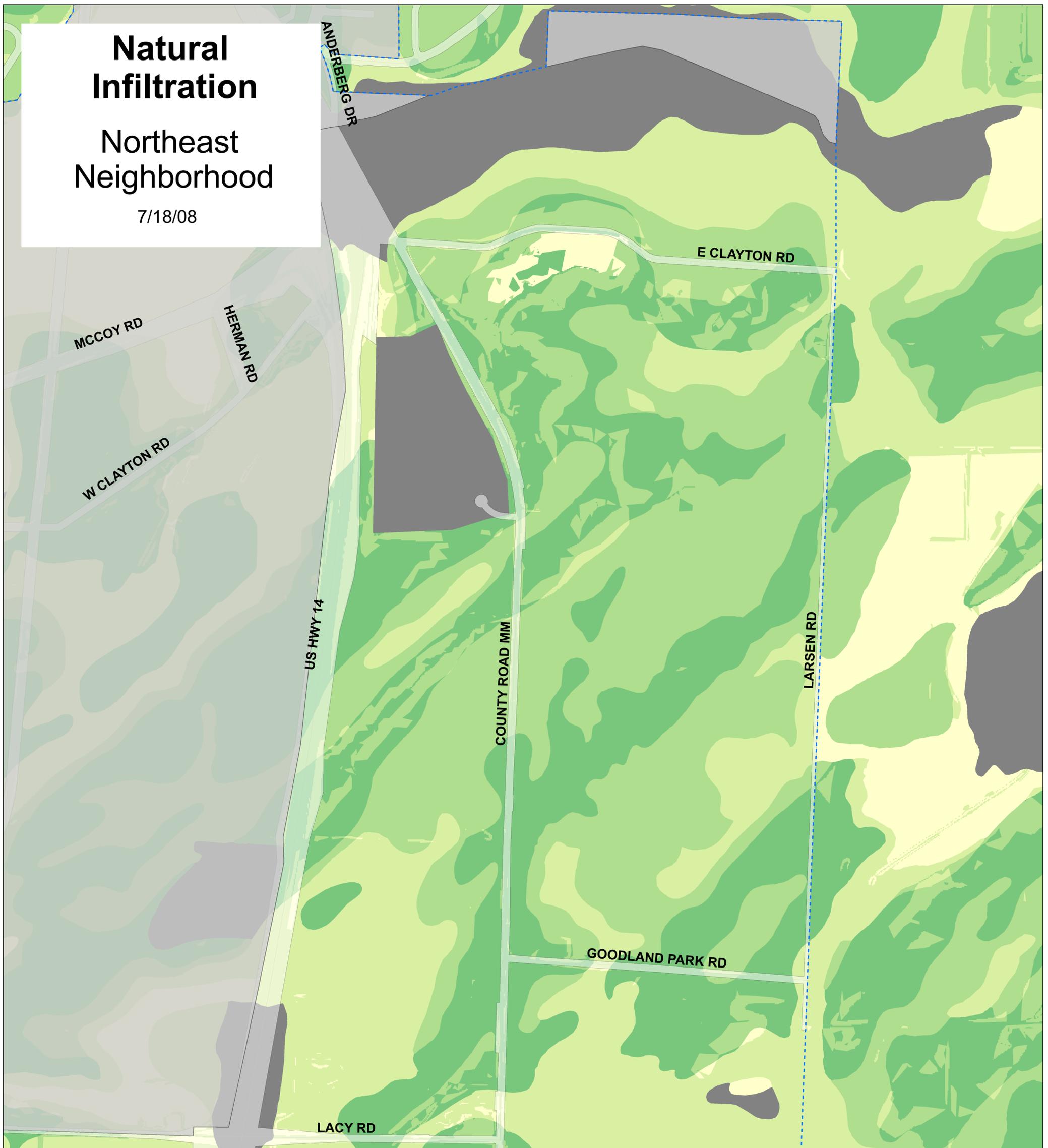


# Natural Infiltration

## Northeast Neighborhood

7/18/08



### Natural Infiltration Rate



This map depicts the ratings of the permeability within the city. The map was derived from NRCS soil information using relative cumulative scores based on soil permeability, depth to the water table, depth to bedrock, and slope. Table 1 shows the scores for each factor in calculating the natural infiltration measurement. Infiltration scores ranged from 0 (low permeability) to 10 (high permeability) and scores 13 and over were considered undetermined. Undetermined areas are primarily quarry, sand pit and fill site locations.

The data was derived from NRCS soil information using relative cumulative scores based on soil permeability, depth to water table, depth to bedrock, and slope (Table 1). Depth to bedrock and slope were considered less important and weighted accordingly. (Capital Area Regional Planning Commission).

Criterion	Criterion Groups	Score
Permeability	0.06 to 0.15 in./hr.	0
	0.15 to 0.6	1
	0.6 to 2.0	2
	2.0 to 6.0	3
	6+	4
	Highly Variable	13
Depth to Water Table	0-3 ft.	1
	3-5	2
	5+	3
Depth to Bedrock	0-3 ft.	0.5
	3-5	1.0
	5+	1.5
Slope	8+ percent	0.5
	4 to 8	1.0
	0 to 4	1.5



Data Sources:  
Dane County LIO,  
DCRPC,  
Fitchburg Planning Dept.

Fitchburg Planning Department  
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