

One of the specific concerns addressed in this study is potential flooding in Kemp Woods Lake No. 2—an area where citizens have had several complaints about flooding. Due to the expense and complexity of SWMM modeling, the City has focused on existing and future conditions for this Master Drainage Plan Update. Past flooding resulting from drainage system configurations that no longer exist was not evaluated in this study. Computed peak water surface elevations at Lake No. 2 for existing and future conditions are presented in Table 1.

**Table 1. Peak Water Surface Elevation, Kemp Woods Lake No. 2**

Modeling Configurations	Peak Water Surface Elevations (ft)	
	10-yr	50-yr
Existing	11.00	12.21
Future	10.92	12.03
Notes: 1. Water surface elevations computed at node 340 (i.e. Lake No. 2). 2. Vertical datum NAVD88. 3. The minimum roadway elevation within Kemp Woods subdivision is 11.60 which can be found at the end of Skyline Circle. Other low elevations of 12.10 can be found throughout the subdivision.		

As indicated in the table, the peak 10-year water surface elevations are below the lowest roadway grade of 11.60 feet, which can be found at the end of Skyline Circle. The modeling also indicates that other than for a few low-lying lots in this vicinity, Lake No. 2 is adequate to provide flooding protection from the 50-year storm.