

Stormwater Quantity

Burgess & Niple performed an analysis of the five Innsbrook lakes (the “Lakes”) to determine the stormwater runoff that can be expected to be discharged from the Innsbrook development. It has been determined that the existing drainage area will generate a peak discharge of 218(+/-) cfs over the spillway of Lake No. 5 from a 1-year, 24-hour storm event. Furthermore, a 2-year storm has a peak discharge of 368(+/-) cfs, a 10-year storm has a peak discharge of 381(+/-) cfs, a 50-year storm has a peak discharge of 505(+/-) cfs and a 100-year storm has a peak discharge of 533(+/-) cfs. The downstream discharge channel, Rooty Branch, has been able to accommodate all of these storm events in the past with no noticeable indication of capacity problems or erosion issues. Rooty Branch is adequate to handle any design storm event that may be anticipated.