

Hydraulic Analysis for Spring Creek at Cottonwood Glen Neighborhood Park Fort Collins, Colorado

Client: Mr. Craig Foreman
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In 1998 Anderson Consulting Engineers, Inc. (ACE) was contracted by the City of Fort Collins Park Planning and Development Department to perform hydraulic analyses, floodplain/floodway modeling and delineation for Spring Creek between Horsetooth Road and the PV&L Canal prior and pursuant to the construction of the Cottonwood Glen Neighborhood Park in southwest Fort Collins.

At Cottonwood Glen Park, ACE staff completed detailed hydraulic analyses of a 5,300-foot reach of Spring Creek, including the new park which consisted of playing fields, bike trails, parking lots, and an irrigation pond with pump house which was located within the effective FEMA floodway.

For the Cottonwood Glen Park, floodplain modeling and delineation of the 100-year and 500-year floodplain boundaries were completed for existing and with-project conditions. In addition, the 1-foot rise and ½-foot rise floodways were determined and delineated using FEMA and City of Fort Collins standards and procedures. In 1998 a technical report and related materials were prepared in support of a Conditional Letter of Map Revision application to the Federal Emergency Management Agency prior to the construction of the park. After the park construction was completed in 2001, ACE staff summarized as-built hydraulic conditions in a technical report in support of a Letter of Map Revision, which was submitted to and subsequently approved by FEMA.



**Spring Creek West of
Cottonwood Glen Park, Fort Collins, CO**



**Cottonwood Glen Park &
Spring Creek, Fort Collins, CO**