

COLORADO WATER CONSERVATION BOARD
721 State Centennial Building
1313 Sherman Street
Denver, Colorado 80203

December 12, 2016

RESOLUTION

PREVIOUS FLOODPLAIN INFORMATION

WHEREAS, the following floodplain studies have been designated by the CWCB for Happy Canyon Creek as listed in Table 1:

Table 1
Previously designated floodplain information for Happy Canyon Creek, Green Acres
Tributary and Badger Gulch

Study Name	Author	Report Date	Resolution No.
Flood Hazard Area Delineation, Happy Canyon Creek, Badger Gulch, Newlin Gulch, Baldwin Gulch, Sulphur Gulch, and Tallman Gulch, Douglas County – Arapahoe County, CO	Howard, Needles, Tammen & Bergendoff	November 1977	96
FIS, Douglas County, Colorado, Unincorporated Areas	Howard, Needles, Tammen & Bergendoff under FIA contract	March 1980	164
FIS, Arapahoe County, Colorado Unincorporated Areas	U.S Department of Housing and Urban Development	August 1977	277
FIS, Town of Parker, Douglas County, CO	Federal Emergency Management Agency	September 1987	288
FIS, Douglas County, Colorado, Volumes 1 & 2	Federal Emergency Management Agency	September 1987	290
FIS, Arapahoe County and Incorporated Areas, Volume 1-3	Federal Emergency Management Agency	December 1993	353
FIS, Douglas County, Colorado, Unincorporated Areas	Federal Emergency Management Agency	January 1996	428
FIS, Town of Parker, CO	Federal Emergency Management Agency	February 1996	429
FIS, Douglas County, CO, Unincorporated Areas	Federal Emergency Management Agency	March 1993	501
FIS, Arapahoe County, Colorado and Incorporated Areas	Federal Emergency Management Agency	April 1989	508
FIS, Arapahoe County, CO and	Federal Emergency	March 1991	509

Incorporated Areas	Management Agency		
FIS, Arapahoe County, CO and Incorporated Areas	Federal Emergency Management Agency	August 1995	538
FIS, Douglas County, CO and Incorporated Areas	Federal Emergency Management Agency	September 2005	593

; and

WHEREAS, previous floodplain information consists of detailed information that has become outdated; and

FLOODPLAIN INFORMATION TO BE DESIGNATED

WHEREAS, Muller Engineering Company completed a new report entitled “Flood Hazard Area Delineation, Happy Canyon Creek” dated July 2014; and

WHEREAS, said new report contains detailed floodplain information for Happy Canyon Creek from the confluence with Cherry Creek upstream to the northern boundary of the City of Castle Pines; and

WHEREAS, said new report contains detailed floodplain information for the portion of Green Acres Tributary that is located in Arapahoe County; and

WHEREAS, said new report contains detailed floodplain information for Badger Gulch; and

LOCAL REQUEST FOR DESIGNATION

WHEREAS, the study resulting in the said new report was prepared to assist government officials in managing and regulating Happy Canyon Creek, Green Acres Tributary, and Badger Gulch; and

WHEREAS, the Urban Drainage and Flood Control District transmitted a letter dated June 8, 2016 to the CWCB requesting designation and approval of said new study for Happy Canyon Creek, Green Acres Tributary, and Badger Gulch; and

WHEREAS, the Urban Drainage and Flood Control District worked directly with all of the affected communities during the course of the study and received input and endorsement for the study methods and results; and

WHEREAS, CWCB staff concurs with the request from the Urban Drainage and Flood Control District for designation and approval of the study; and

WHEREAS, the Urban Drainage and Flood Control District Board of Directors also passed a resolution at their August 21, 2014 meeting to adopt the subject study; and

C.R.S. AUTHORITY

WHEREAS, Section 37-60-106(1)(c), Colorado Revised Statutes, requires the Colorado Water Conservation Board to assist in the prevention of floods and flood damages therefrom; and

WHEREAS, Sections 31-23-301 and 30-28-111, Colorado Revised Statutes, provide that legislative bodies of local jurisdictions may provide zoning regulations for land uses on or along any storm or floodwater runoff channel or basin only after designation and approval by the Colorado Water Conservation Board; and

WHEREAS, Section 37-60-106(1)(c), Colorado Revised Statutes, directs the Colorado Water Conservation Board to designate and approve storm or floodwater runoff channels or basins and to make such designations available to legislative bodies of local jurisdictions; and

CONSISTENCY WITH PREVIOUS FLOODPLAIN STUDIES

WHEREAS, the detailed floodplain information for Happy Canyon Creek, Green Acres Tributary, and Badger Gulch revises and is, therefore, inconsistent with the detailed and approximate floodplain information for Happy Canyon Creek, Green Acres Tributary, and Badger Gulch contained in Resolutions No. 96, 164, 277, 288, 290, 353, 428, 429, 501, 508, 509, 538, and 593; and

COMPLIANCE WITH CWCB TECHNICAL STANDARDS

WHEREAS, hydrologic information in said new report was developed using UDFCD's Colorado Urban Hydrograph Procedure (CUHP, v. 1.3.3) and the EPA's Stormwater Management Model (SWMM, v 5.0.021); and

WHEREAS, water surface elevations for the 10-, 50-, 100-, and 500-year flood frequencies for the studied stream reach were computed for said new report using the U.S. Army Corps of Engineers HEC-RAS hydraulic model, Version 4.1.0; and

WHEREAS, floodway limits for the 100-year flood frequency assuming a 0.5 foot maximum rise, as required by UDFCD and CWCB, were computed for said new report using the U.S. Army Corps of Engineers HEC-RAS hydraulic model, Version 4.1.0; and

WHEREAS, the detailed floodplain and floodway information for Happy Canyon Creek, Green Acres Tributary, and Badger Gulch in said new report meets the requirements listed under the Board's "Rules and Regulations for Regulatory Floodplains in Colorado" (2 CCR 408-1); and

WHEREAS, Douglas County, Town of Parker, Arapahoe County, City of Lone Tree, and the Urban Drainage and Flood Control District should continue to regulate new development and construction in floodplain areas on a case-by-case basis based on the information presented in said new report; and

DESIGNATION, APPROVAL AND RESCISSION ACTION

NOW, THEREFORE, BE IT RESOLVED by the Colorado Water Conservation Board in regular meeting assembled in Edwards, Colorado, this 21st day of September, 2016 that it does hereby designate and approve as detailed floodplain information the 100-year and 500-year floodplains and 0.5-ft floodway delineations for Happy Canyon Creek, Green Acres Tributary, and Badger Gulch in Douglas County, Town of Parker, City of Lone Tree, and Arapahoe County contained in said new Flood Hazard Area Delineation dated July 2014; and

BE IT FURTHER RESOLVED that the Board does hereby rescind the detailed and approximate 100-year and 500-year floodplain and floodway information contained in Resolutions No. 96, 164, 277, 288, 290, 353, 428, 429, 501, 508, 509, 538, and 593; for the studied reaches of Happy Canyon Creek, Green Acres Tributary, and Badger Gulch contained in said new report dated July 2014; and

BE IT FURTHER RESOLVED that the Secretary of the Board is directed to send a certified copy of this resolution to Douglas County, Town of Parker, City of Lone Tree, Arapahoe County, Urban Drainage and Flood Control District, and the Federal Emergency Management Agency Region 8.

CERTIFICATE

I certify that the foregoing is a true and correct copy of a resolution adopted by a majority vote of the members of the Colorado Water Conservation Board in regular session assembled at Edwards, Colorado on the 21st day of September, 2016, at which a quorum was present.


James Eklund, Director