

PROJECT DATA

APPLICATION TYPE	Shotcrete
OWNER	City of Creede
CONTRACTOR	Mays Construction Specialties, Inc.
ENGINEER	SGM Engineering
SHOTCRETE SUPPLIER	Mathias Concrete, Inc.
FIBER SUPPLIER	FiberForce
FIBER TYPE & DOSAGE	2" FiberForce 1000 HP™ 4.0 lbs. pcy
DETAILS	
VOLUME	1030 cubic yards
DIMENSIONS	4-6" thick lining 4000 PSI 1 mile
PROJECT DATE	July-September 2018
ELEVATION	8,800 feet



The City of Creede Colorado re-lined their canal system in an effort to increase retained water coming from the nearby river systems. This particular canal had not been lined with concrete since the 1940s and critically needed the renovation done. At an elevation of 8800 feet, Mays Construction Specialties, Inc. (MCSI), was able to use a shotcrete method to place over 1,030/Cy of 4,500psi shotcrete (which attained >5,000psi in 28-days). Mathias Concrete Inc. added the FiberForce 1000 HP directly at their ready mix truck, adding virtually no time to the overall project schedule. At 4 lbs per cubic yard, all fiber mixed and pumped exceptionally well over the course of the project. Additionally, minimal shrinkage cracking or widening of cracks were found (no control joints were used in the flume). Mays Construction Specialties, Inc. (MCSI) is a Charter Member of the American Shotcrete Association (ASA).