



Upper and Lower Beaver Brook Dam Rehabilitation

Lookout Mountain Water District
Substantially Complete December 1, 2024



Project Description

The Lookout Mountain Water District owns and operates the Upper Beaver Brook (UBB) Reservoir (397 AF), Lower Beaver Brook (LBB) Reservoir (31 AF), and Lookout Mountain Reservoir (101 AF) - diverting an annual average of 185 AF - for the benefit of its 1,600 residential and commercial customers.

In November of 2020, the District received a \$3,500,000 loan from the CWCB to support the rehabilitation of both the Upper and Lower Beaver Brook reservoirs. Construction on the dam of the LBB Reservoir - which serves a forebay for the District's water treatment plant - began in May of 2021 and finished at beginning of 2022. Soon after completion of the LBB, elevated pH water was observed seeping from the dam that exceeded the Army Corp's requirements. The District worked with the Army Corp to develop a mitigation and monitoring program in 2024 to the Corp's satisfaction.

Demolition and reconstruction on the UBB outlet works began in the May 2023 and concluded in August 2023. Due to the depth of the outlet works below water, a coffer dam was not a feasible option. The District contracted with an underwater diving company that specializes in the high altitude underwater construction to perform the work.

P R O J E C T D A T A		
<i>Sponsor:</i> Lookout Mountain Water District	<i>County:</i> Jefferson	<i>Water Source:</i> Beaver Brook
<i>Type of Project:</i> Dam Rehabilitation		<i>Board Approval Date:</i> November 2020
<i>Loan Terms:</i> 30 years @ 2.05% (Original) \$3,535,000.00 (Final) \$3,353,920.52		
<i>Design Engineer:</i> GEI Consultants Inc.		
<i>Contractors:</i> Zak Dirt Inc. for LBB; Marine Diving Solutions for UBB		