



CITY OF ATLANTA WATER SUPPLY, UNITED STATES

Slope Stability

City of Atlanta Water Supply

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Project	City of Atlanta Water Supply
Location	Atlanta, GA
Country	United States
Year of installation	2016
Customer	City of Atlanta
Engineering	Scarptec Inc.
Contractor	Guy F. Atkinson Construction LLC
Other participating companies	Apex Rockfall, LLC

Initial situation Bellwood Quarry outside of Atlanta (GA) will now be used for City of Atlanta water supply. In preparation to house the water supply and construct the distribution tunnel system a temporary and permanent system needed to be designed to protect workers, equipment and infrastructure from rocks falling off the 315 ft high and 365 ft long north facing slope. An additional temporary solution also needed to be implemented to protect workers and equipment at the tunnel portal.

Description The solution was a 114 000 ft² TECCO® G65/3 drape system and two GBE-1000A rockfall barriers forming canopies. The challenge was to provide a feasible and cost effective solution that could be strong enough to contain rocks 2.5 ft in diameter falling from 285 ft. The system had to be strong yet light weight enough for effective installation. The GBE-1000A systems were bolted to the rockface with the TECCO® G65/3 drape tied locally to ensure capture of the rock. Larger boulders were secured with rock bolts to reduce system requirements. The drape will be left after the site is filled to contain underwater rockfall. The canopies will be removed.

Learn more about the project:
[City of Atlanta Department of Watershed management \(YouTube\)](#)

Protected object	Mine / Quarry, Infrastructure
Other installed applications	Rockfall Protection, Underground & Open Pit Mining
Corrosion protection	Galvanized, GEOBRUGG SUPERCOATING
Geology	Granite
Stabilized area	10600 m ²
Maximum slope height	96 m
Slope inclination	80 ° - 90 °
Exposition	North

For questions please contact our Geobrugg specialist at your side

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