Office of Active and Abandoned Mine Operations

QUAKAKE TUNNEL SUBSIDENCE
Abandoned Mine Reclamation Project
Contract No. OSM 13(3700)101.1EMER

Bureau of Abandoned Mine Reclamation
2 Public Square 5th floor
Wilkes-Barre, PA 18701-1915
Location: The project site is located at 978 Gap Street, Packer Township, Carbon County. Follow I-81 S and take Exit 141 for PA-424 E toward PA-309/Greater Hazleton Chamber of Commerce Beltway. Turn left onto PA-424 E/Greater Hazleton Chamber of Commerce Beltway and continue for 3.7 miles. Make a slight right onto PA-93 S and travel for 2.5 miles then turn right onto Spring Mountain Road and continue for 2.1 miles. Turn left on Quakake Road for 0.6 miles then turn left onto Wetzel Run Drive for 1.1 miles. Access location can be found at the following coordinate: Lat 40°54’52” N, Long: -75°53’57.1” W.

Watershed: Black Creek, CWF (Cold-Water Fishes), MF (Migratory Fishes).

Official Start Date: August 28, 2020

Contract Completion Date: January 8, 2021

Contractor: Atlantic Carbon Group, Inc. Hazleton PA

Property Owners: Barbara Genetti
4116 Quakake Road
Weatherly, PA 18255-3500

Commonwealth of Pennsylvania
400 Market Street
Harrisburg, PA 17106

Project Cost: $24,500.00 (Bid Amount)
$24,500.00 (Final Amount)
$238,421.00 (Commonwealth Purchased Materials)

Project Area: 4.0 Acres

Purpose: To eliminate a public health and safety problem caused by a collapsed tunnel roof within the Quakake Tunnel resulting in a subsidence at the surface which created a partial blockage to the mine discharge within the tunnel channel. The purpose of this project was to abate the subsided area, remove the tunnel blockage, and install pre-cast concrete sections to recreate the tunnel opening.
Description: To abate the blockage and vertical opening, the following was completed: erosion and sedimentation controls, such as compost filter sock and rock filters, excavating material in the vertical opening area to gain access to the tunnel channel, removing the blockage, transporting material to an on-site disposal area, installing eight pre-cast concrete sections to recreate the tunnel, backfilling over the installed sections, removing water control devices, and stabilizing the project area with vegetation.

Twelve additional pre-cast concrete sections were fabricated from existing tunnel sections and installed downstream from the original tunnel section to regrade the site. The sections were then backfilled and stabilized with vegetation.

This project was sponsored jointly with the Atlantic Carbon Group Inc. with labor and equipment provided by the Atlantic Carbon Group and materials funded by the Department.

Funding: Pennsylvania’s Abandoned Mine Land Grant

Project Management: Bureau of Abandoned Mine Reclamation
Wilkes-Barre District Office 570.830.2371
QUAKAKE TUNNEL
CONTRACT NO. OSM13(3700)101.1EMER

Pre-Construction

Downstream End of Existing Tunnel; Concrete Sections Separated

Subsidence/Tunnel Collapse
QUAKAKE TUNNEL
CONTRACT NO. OSM13(3700)101.1EMER

Pre-Construction

Tunnel Blockage at Subsidence Location
QUAKAKE TUNNEL
CONTRACT NO. OSM13(3700)101.1EMER

During Construction

Excavating Subsidence Area
QUAKAKE TUNNEL
CONTRACT NO. OSM13(3700)101.1EMER

During Construction

Subsidence Area Tunnel Roof Exposed
During Construction

Placement of Concrete Sections Within Subsidence Area
QUAKAKE TUNNEL
CONTRACT NO. OSM13(3700)101.1EMER

Post Construction

Subsidence Area Backfilled
QUAKAKE TUNNEL
CONTRACT NO. OSM13(3700)101.1EMER

Post Construction

Extended Mouth of The Tunnel