

## Trout Run Streambank Stabilization Project, Erie County, PA

RedHorse Environmental designed, permitted, and constructed a longitudinal-peaked-stone-toe-protection (LPSTP) bioengineering structure on Trout Run in Fairview Township, Erie County. The structure addressed a stream bank failure occurring on Trout Run adjacent to the Fairview Area Historical Society on Avonia Road in Fairview.

RedHorse Environmental developed the design of the 130' LPSTP and secured the required permits from PADEP. The project site had very limited access that made the build challenging. Construction and restoration plantings were completed in September 2017 by K & M Resources and RedHorse Environmental.

RedHorse Environmental worked with the Fairview Area Historical Society and K & M Resources to avoid unnecessary impacts to their residential property and restore areas adjacent to the stream following construction. All work was completed without entering the stream channel



**Trout Run prior to LPSTP installation  
(bank failure to right of stream channel)**



**Constructed LPSTP  
looking upstream**



**Constructed LPSTP**