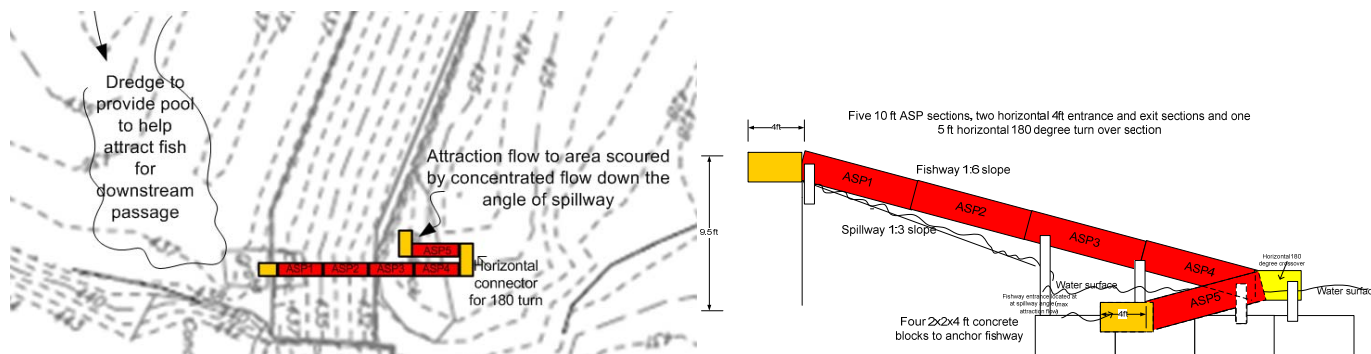


Dam Description and Fishway Benefits- Parryville Dam is a 171-foot long, 9.5-foot high and 32-foot wide (10 ft wide upstream face and 22 ft-wide sloped downstream face) wooden crib dam with a wooden deck sloped at a 3:1 located across the Pohopoco Creek within the Borough of Parryville, Carbon County, Pennsylvania (The latitude is 40.818N. The longitude is -75.673W). The dam dates back to at least 1929 and is owned and operated by the downstream Borough of Palmerton. The distance in stream miles to upstream river structures is about 5 miles from the dam to Beltzville Lake State Park dam. The Beltzville dam provides a cold, tail-water release that provides water temperatures below 65 deg F during summer months making the Pohopoco Creek an excellent thermal refuge for trout and other cold water fish species. The Parryville dam represents a total barrier to upstream fish passage. There is no upstream fish passage possible on the Beltzville dam; however it is possible for fish from the lake to pass through the outflow gates to the creek. The 5 mile section of the Pohopoco Creek between the two dams is exceptional cold water and offers prime thermal refuge and trout spawning habitat for resident and migrating fish in the Lehigh, however the Parryville Dam is a barrier to Lehigh River fish passage.

Proposed Fishway at Parryville Dam - The Alaska Steeppass (ASP) is a type of Denil passage, and presents the lowest cost opportunity for a fishway and normally prefabricated from aluminum in 10 ft sections and placed at the dam. This provides a significantly lower construction cost and given the relatively small number of fish that need to pass at any given time, the ASP seems particularly well suited and will be installed at a 1V:6H slope to maximize successful fish utilization, including Shad. The primary advantage of the ASP is that it is prefabricated, modular, and relatively light weight offering construction costs significantly lower than technical ladder designs like the Vertical Slot, Weir & Pool or natural fishways like Rock Ramp design. This full project has been estimated to cost \$186,700 for installation. The Palmerton Municipal Authority Board voted in approval of this grant application provided that a number of stipulations they have outlined about fishway ownership, liability, maintenance, etc. are met and for which we believe can be met.



Illustrations of Proposed fishway at Parryville above and example of similar fishway at Carmans River in New York (below left), a photo of the Parryville dam center and satellite image pointing to dam below right.



Supporters – The Wildlands Conservancy is supportive of this project, which is consistent with the Lehigh River Watershed Conservation Management Plan document. The Palmerton Municipal Authority has also voted in support of this project. The Lehigh River Stocking Association is fully supportive of the project as is the PA Fish and Boat Commission and the Lehigh Valley Group Sierra Club.