

EMMONS METRO CASE STUDY: KEEPING CLEAN WATERS FLOWING THROUGH WATERSHEDS WITH ANUA PURAFLO SYSTEMS

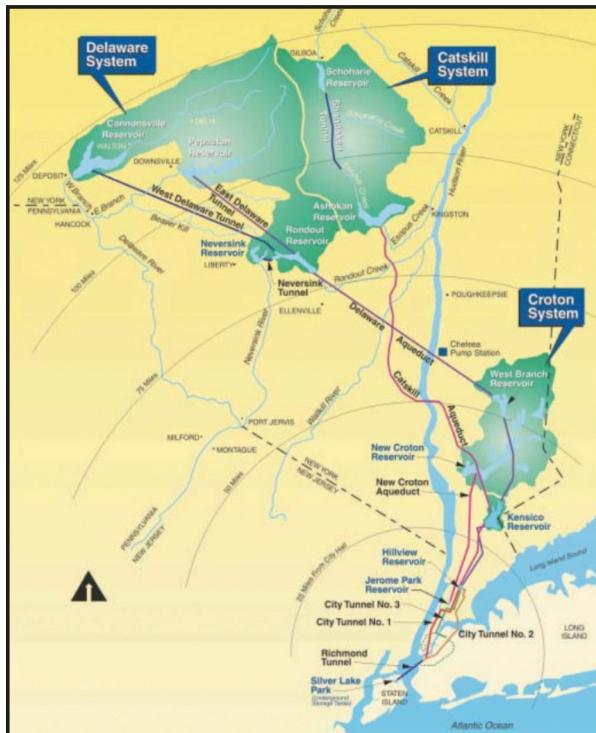
Submitted by Susan Gnrke

PROJECT BACKGROUND:

Shandaken, NY is located 125 miles north of NYC and compiled of 12 hamlets making up this township. Although considered a smaller rural community, they are an integral part of the New York City Catskill-Delaware Watershed, responsible for supplying water to a highly-populated area, NYC.



An environmental impact study in 2018 noted that Shandaken, as well as many other communities that route drinking water to NYC and its nearly nine million residents as of the 2010 census, were on the brink of septic systems failure. The anticipated impact of this was apparent, and a solution was needed.



The New York City Department of Environmental Protection (NYC-DEP) and Catskill Watershed Corporation, agencies responsible for protecting the water quality in the NYC Watershed West of the Hudson River, wanted to work proactively to keep clean waters flowing through the watersheds.

PROJECT OVERVIEW:

Evergreen Mountain Contracting was awarded the job, designed by Lamont Engineers based in Cobleskill, NY, and they recommended supplementing the septic systems with Anua Puraflo systems. Based on previous work experience with Emmons Metro LLC and the Anua Puraflo systems, Evergreen Mountain Contracting knew Emmons Metro contained the experience needed for success with the Town of Shandaken project.

With 30 years of experience in the water and wastewater supply business, Emmons Metro has seen many changes in the industry. Dedicated to offering the best solutions to customers, Kim Emmons, General Manager, did his research when Anua Puraflo systems were introduced as a new process to supplement septic systems 17 years earlier. He spoke with the manufacturer, researched the science, examined the components capability, and thought it was an efficient, effective, and nature-based product to help keep our drinking water clean, especially in the rural areas of New York. To this day, Emmons Metro LLC staff are still promoting the Anua Puraflo systems for the various watersheds of the NYC-DEP, the Lake George Region, the Adirondacks, and Western New York.

PRODUCT OVERVIEW:

The Anua Puraflo systems are a tried and true method to keep the water in and near streams, rivers, and lakes clean so they can be enjoyed for generations to come.

A reliable yet versatile treatment system, the Puraflo peat fiber biofilter system is green-friendly, using little to no energy. Operating as an advanced secondary treatment system that purifies septic tank effluent to an extremely high degree before final dispersal, the Puraflo system is simple to operate. Additionally, unique peat fiber with high lignin content provides for a longer media life.

The filtered septic tank effluent collects under gravity in the pump tank. A timed dosing system is activated by a programmable timer, which pumps the effluent through a flow splitting inlet

manifold located at the base of the treatment modules. An orifice plate located inside the top of each inlet manifold allows the flows to be split equally and fed simultaneously to each biofilter module.

The inlet manifold is connected to the base of the biofilter module and is fed upwards to a rectangular distribution grid located 6 inches below the top of the lid. The effluent percolates laterally and vertically through the depth of the peat fiber treatment media and emerges as a clear, innocuous liquid from the base of the system. The treated effluent is then collected and dispersed.

After installation, annual inspections are recommended to test the water quality coming out and going in the Puraflo system.

The Puraflo peat fiber biofilter system has been rigorously tested over the past three decades, in both a certification setting and a field setting. Puraflo has been tested as part of USEPA National Onsite Demonstration Projects, State Onsite Demonstration Projects, and per state/local regulatory requirements. Puraflo is a modular system with each module rated according to application.



PICTURES:

TOWN OF SHANDAKEN, NY. LOCATED IN ULSTER COUNTY NY.

Shandaken is a town on the northern border of Ulster County, New York, United States, northwest of Kingston, New York. As of the 2010 census, the town had a total population of 3,085. The name is believed to be from an Esopus phrase for "land of rapid waters."



RESULT:

New Yorkers have cleaner water and more effective septic solutions that make the application viable for all communities, large and small. We all win. A step toward a healthier future and a brighter world.

PROJECT PARTNERS:



CONTACT INFORMATION:

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ANUA MISSION STATEMENT:-

Anua is an American manufacturer of Clean Water and Clean Air solutions serving the wastewater and odor control industries. Through the symbiosis of technology, design, and collaboration, we strive to be industry leaders in championing a sustainable future for all. 💧💧

