

Project Description - The original project associated with the #1812 grant was the design and installation of a manufactured treatment device (MTD) at Sunset Avenue. While site was not identified in the Watershed Implementation Plan (WIP), it did follow similar recommendations for installation of similar MTDs and is located in subwatershed 6.

Project Goals - The original goal of project #1812 was the design and installation of a manufactured treatment device (MTD) at Sunset Avenue which is located in subwatershed 6. After conducting investigative engineering and utility reviews, it was determined that installation at this site was not feasible due to complications with a forced sewer main. When this site was determined to be ultimately unfeasible, Princeton Hydro and the Borough shifted efforts to the installation of Biochar at five previously installed BMPs to improve removal of dissolved phosphorus.

Project Timeframe – June 5, 2019 through September 30, 2022

Photos



Project Results – Placement of 4 biochar sleeves. The Borough purchased 1,050 Biochar sleeves (3 ft long and 1 ft in diameter). The sleeves were transported to the Borough and properly stored for current and future use. On 25 August 2022 Princeton Hydro conducted a site visit with the Borough's Department of Public Works (DPW). At this time, five of the MTDs within the Harveys Lake watershed were inspected and cleaned out, if necessary. Princeton Hydro provided on-site training to the Borough's DPW on the installation and eventual removal of the sleeves from the MTDs. The DPW and Princeton Hydro then removed the Biochar sleeves and replaced them with new sleeves approximately one month after they were installed (26 September 2022). A subset of the sleeves was taken to ECM laboratories and samples were extracted to be analyzed for TP and extractable phosphorus, which is laboratory method to estimate of the amount of loosely bound phosphorus adsorbed onto the Biochar. "

Project Costs - \$136,810 EPA Section 319(h) plus an additional \$18,210 in match funds.