



>>> THE PROBLEM

A saloon located in southern Minnesota had issues with their drainfield accepting effluent. The existing system was designed to handle the restaurant's high strength waste, however, it was not functioning properly. Additionally, grease from the grease trap passed through the tanks and made its way to the drainfield. This created a barrier that the effluent could not penetrate. As a temporary solution the existing tanks had to be used as holding tanks requiring weekly pumping. This added significant costs for the saloon's daily operation. They needed a lasting solution to address the aforementioned issues.



BEFORE



DURING



AFTER

>>> THE SOLUTION

The only space available on this property was the existing drainfield location. We removed the top soil, fill, and the dirty drainfield rock, pipe, and parts. Next, removed the contaminated soil and replaced it with washed sand before building the new pressure bed. The concrete tanks needed replacement because of heavy corrosion due to improper venting.

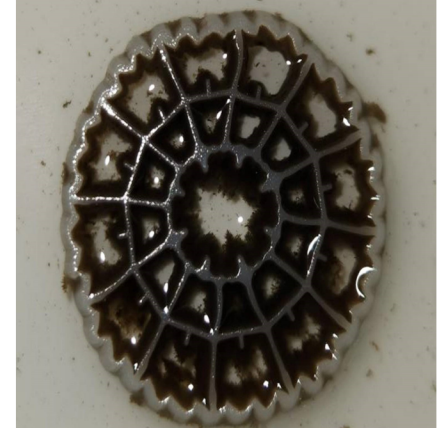
We incorporated an advanced treatment technology called AlphaMaxx MBBR (Moving Bed Bio Reactor). This technology allows for treatment in the septic tank before the effluent is pumped to the drainfield for final disbursement. The AlphaMaxx pretreatment system is engineered to site specific wastewater treatment levels. This system has flexibility to add more media to the tanks should future waste strength be higher than anticipated. This pretreatment process greatly extends the life of the new system.



ALPHAMAXX IN ACTION



CLOSE UP OF THE MEDIA



GROWTH OF GOOD BACTERIA

>>>THE RESULTS

The upgraded septic system greatly benefits the saloon in several ways. Pretreatment protects the drainfield by removing grease and other biological blockages before the effluent is pumped to the drainfield for final disbursement. This ensures efficient wastewater management, preventing potential disruptions to the establishment's daily operations. With increased capacity and improved filtration capabilities, the upgraded septic system can effectively handle the high volume of water and waste generated by a bustling bar and grill. Even during peak hours or busy weekends, the system can handle the load without risking overflow or backups, providing a more seamless experience for both guests and employees.