

ADVANCED WASH WATER RECYCLE SYSTEM FOR GOLF MAINTENANCE FACILITIES

CARBTRON offers a complete line of wash water treatment and recycle systems using the latest activated carbon adsorption / oxidation technology. We have utilized our 25-year experience in the treatment and remediation of contaminated groundwater and hazardous waste sites in developing a state-of-the-art treatment and recycle system for the golf maintenance industry. We have an ever-expanding base of installed systems at premier golf facilities across the country.

CARBTRON Wash Water Recycle Systems are designed to address the following important issues:

High Capacity Treatment System

The CARBTROL system can provide 20-30 GPM of recycled wash water on a continuous basis. Many competitive treatment systems are limited to a flow capacity of 10 gallons per minute (GPM) and 1,000 to 2,000 gallons per day (GPD). The Carbtrol system has no difficulty in handling wash water from a heavy equipment wash day. If a hose is left on or rainwater enters the washing area, the CARBTROL carbon adsorption-oxidation system handles these fluctuations easily.

USEPA Recommended Technology

The USEPA has published a listing of recommended treatment technologies for removing herbicides, insecticides and pesticides (HIP's) from wastewater, which include activated carbon adsorption, chemical precipitation and oxidation. CARBTROL incorporates all of these technologies into our recycle system. Our systems utilize ultra high capacity granular activated carbons, and are designed to support locations requiring zero discharge of pollutants.

Very Low Maintenance

CARBTRON's Washwater Recycle System operates for extended periods without requiring any operator attention. System is designed to allow easy inspection and repairs, if necessary. Typically, maintenance is only one or two hours per week.

CARBTRON offers both complete recycle (zero discharge) and discharge options in one through four wash station capacity.



ADVANCED WASH WATER SYSTEM DETAILS



Concrete pad is designed to direct all wash water to a sump.

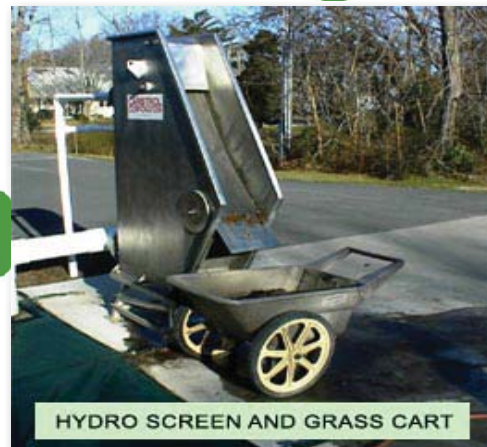


Dirty wash water collects in the primary sump. At water high level, the pump engages. During pumping, the water is vigorously agitated to ensure that grass, and dirt, do not accumulate in the sump

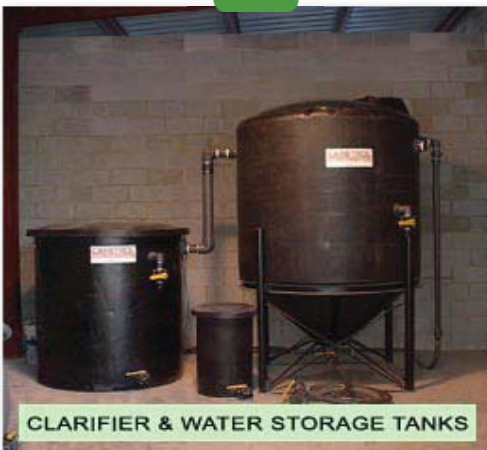


Clarified wash water is pumped to the treatment system which includes sand filtration and activated carbon adsorption. Oxidation using ozone and hydrogen peroxide provides final polishing. Water is available on demand.

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Dirty water is pumped from primary sump to the solids separation screen. Grass and dirt are filtered by the screen and collected in a grass cart. Filtered water passes through the screen and flows into a transfer sump.



Screened wash water is pumped from transfer sump to the clarifier where additional solids are removed by quiescent settling. The clarified water then flows to a storage tank, prior to final treatment and reuse.