



UniScreen Operation and Maintenance

INSTALLATION

- **PRECAST CONCRETE MANHOLE.** Install in accordance with standard practice for storm drainage manholes.
- **UNISCREEN.** Installed on-site by contractor.

OPERATION --- SIX-MONTH INSPECTION AND MAINTENANCE SCHEDULE

- **INSPECT THE WATER SURFACE AREA UPSTREAM AND DOWNSTREAM FROM THE SCREEN.**
Use this inspection as an example of the mass and volume of the floating oils and debris being washed from the tributary drainage area. Floating debris should be removed when depth exceeds three inches.
- **INSPECT THE OPENINGS IN THE UNSUBMERGED PORTION OF THE SCREEN.**
Estimate the fraction of the openings that are not blocked by solids. Use this as an example of the ability of floating debris to block the openings in the screen. Screen cleaning is recommended when more than one half of the screen openings appear to be blocked.
Approximately one half of the screen is submerged. Assume solids collection on this portion of the screen is similar to the unsubmerged portion.
- **ESTIMATE THE DEPTH OF THE SEDIMENT PILE ACCUMULATED ON THE FLOOR OF THE CHAMBER.** Slowly insert a pole into the chamber. The pole should have a flat end that produces a resistance once the flat end contacts the surface of the sediment pile. Once this resistance is felt, twist the pole to insert it through the sediment pile to contact the floor of the sediment pole. Record the distance required to twist the pole through the sediment pile. Sediment piles should be removed when depth exceeds 12 inches.
- **DEFINE THE INITIAL MAINTENANCE SCHEDULE.** Adjust the schedule as required based on continued operating experience.

MAINTENANCE --- PUMPOUT, SCREEN CLEANING, AND WASTE DISPOSAL

- **PUMPOUT OF FLOATING DEBRIS AND SEDIMENT.** Use procedures similar to those used for standard storm manholes and catch basins.
- **SCREEN CLEANING USING POWER WASHING.**
 - Pump out the water to expose the entire surface of the screen.
 - Power wash the outlet side of the screen to remove the accumulated debris and to backflush the screen. Water pressure of the power wash should not exceed 100 psig.
 - Power wash the inlet side of the screen to remove accumulated debris.
- **DISPOSAL OF FLOATING DEBRIS AND SEDIMENT.** Use an acceptable waste facility in accordance with local and State requirements.