

# Application Bulletin

## Community Gardens Bloom in Wyoming with the Help of LAKOS Pump Intake Screens

**Application:** River water for domestic landscape irrigation

**Problem:** When plans were drawn for a new pump station on Wyoming's Big Horn Head River to serve the non-potable water needs of East Thermopolis, Mike Ready, Head of Maintenance, knew that he would face problems if moss, algae, twigs and other organics and debris were allowed to enter the pump's suction intake pipe. Based on 30 years of experience, Ready realized that pump protection was needed but that a stationary screen was not the answer. Heavy concentrations of moss near the pump house would quickly blind off the screen's available water intake area and require frequent time-consuming and messy cleaning procedures.

**Solution:** To prevent trouble before it could begin, a LAKOS-PLUM CREEK Self-Cleaning Pump Intake Screen was included in the original design for the city's system that provides water through 4-inch piping to 150 residences for lawn and garden use. Largely due to PLUM CREEK's reliable internal backwash design, the municipal system has enjoyed trouble-free operation since it began service 3 years ago.

Remembering frequency declines in pump performance, expensive repairs and replacements, cavitation, pressure loss, decreased flow rates and excessive fuel usage at other pump stations on the river, Ready says, "I just wouldn't be without the

PLUM CREEK Screen, and I'm really pleased that we decided to go with it from the start. Even with all the moss in the Big Horn, we haven't had to shut down once for screen cleaning or pump repairs. PLUM CREEK is one tough screen, and all the yards in town are benefitting from its efficiency."



*Pumping 640 U.S. gpm (145 m<sup>3</sup>/hr) at 90 psi (630 kPa), this pump station in Wyoming relies on a PLUM CREEK Screen to prevent organics and debris from interrupting water service to its customers. A galvanized steel shield has been added for protection against large or heavy objects carried by the river's swift current. Note the shield's notched side-opening that allows PLUM CREEK's backwash jets to blow away particles attracted to the screen.*

### CLAUDE LAVAL CORPORATION

Not connected with The DeLaval Separator Company

1365 N. Clovis Avenue • Fresno, California 93727 USA  
Telephone: (559) 255-1601 • Fax: (559) 255-8093  
Toll-Free: (800) 344-7205 (USA, Canada & Mexico)  
www.lakos.com • E-mail: info@lakos.com