



ESTABLISHED IN 1928

APPLICATIONS

GROUND WATER

WASTE WATER-

DEMINERALIZERS

SELENIUM REMOVAL SYSTEMS

Loprest Water Treatment Company is privately owned corporation that manufactures water and process purification systems for municipal, industrial, food and beverage processing and utility markets.

Loprest has systems to remove selenium in either potable water or waste water discharge applications. The Loprest system uses ion exchange resin or Sulfur Modified Iron (SMI) for the removal of selenium to the parts per trillion (ppt) level.

In ion exchange systems the selenium is oxidized to selenate and removed by strong base anion exchange resins. Regeneration of

the resin with brine is required to make the systems economical. Further recycling and reuse of the brine spent brine often done in the process.

SMI-III is a reactive media that removes selenium via a chemical reaction and adsorption of the reacted selenium compounds into the media's structure.

Because SMI-III is a reactive media it has much higher capacities for selenium removal than other processes. Leakage levels are much lower as well. Pi-

lot testing with SMI on Coal storage runoff water has shown incoming **Se** levels of > 20ppb can be reduced to <0.06ppb. These results are achieved even in high TDS waters after the suspended solids have been removed.

For over 80 years Loprest has kept pace with water treatment and food and beverage needs as dictated by local, state and federal regulations. Every system is designed and manufactured in our facilities in Rodeo, CA.. Loprest continues to provide ongoing service and dependability to all its customers.

STANDARD WATER TREATMENT SYSTEMS DESIGNED AND FABRICATED BY LOPREST INCLUDE:

- Clarifiers
- Multi-Media Filters
- Iron & Manganese Removal Filters
- Granular Activated Carbon Filters
- Softeners
- Arsenic Removal
- Demineralizers
- Multi-Cell Pressure Filters
- MTBE Clean-Up
- Perchlorate and Nitrate Removal Systems
- Aerators
- Groundwater Clean-Up
- Degassifiers
- Air Stripping Towers
- Pressure Contact Clarifiers
- Dual Stage Pressure Filters
- Packaged Water and Wastewater Treatment Systems
- Filter Media Replacement

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INSTALLATION PICTURES



1100 GPM NITRATE REMOVAL SYSTEM



CUSTOM DROP LATERAL UNDERDRAIN SYSTEM



200 GPM SKID MOUNTED



INSTRUMENT & CONTROLS PANEL



PLC/OIT PROGRAMING

SYSTEM



LOPREST PILOT PLANT

FEATURES AND BENEFITS

- **Quality Construction**
- **Stainless Steel Internals**
- **History and Experience**
- **ASME Code Stamped**