

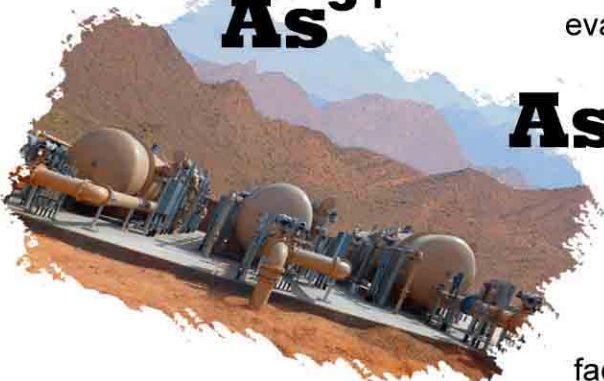
# Arsenic Removal

Arsenic is a naturally occurring contaminant found in many groundwater sources throughout the United States and the world. In 2001 the USEPA finalized the maximum contaminant level (MCL) for arsenic at 10 ppb. The common forms of inorganic arsenic are arsenite (As III) and arsenate (As V). Arsenite is more soluble in water and less available for precipitation or adsorption reactions than arsenate. Therefore, oxidation is often used to optimize removal. Loprest offers custom arsenic removal systems utilizing multiple technologies based on our customer's site specific conditions and treatment objectives. Treatment methods typically evaluated include:

**As<sup>5+</sup>**

**As<sup>3+</sup>**

**Coagulation/Filtration  
Adsorptive Media  
Ion Exchange  
Membrane Processes**



Each method has advantages and limitations influenced by factors such as the volume of water to be treated, other contaminants present in the feedwater and simplicity of operation. Systems are available for flows from 50-5000 gpm. Our filter systems over 500 gpm make their own backwash water, so there is no need for a separate treated water source. Further reduction of the wastewater generated can be achieved with the application of the Loprest Syncro-Cleanse<sup>®</sup> process. All Loprest treatment systems meet local, state, EPA, NSF61, DEQ, DDW and Ten States Standards.