Chemical Enhanced Oil Recovery (Chemical EOR)
A Proven, Flexible and Innovative Water Treatment Technology to Improve Recovery in Chemical EOR Applications

WHAT TO CONSIDER IN YOUR CHEMICAL EOR PROGRAM
Chemical EOR uses the properties of polymer, surfactant and/or alkali to boost oil recovery. Polymer flooding increases OOIP recovery 10-15% while Alkali, Surfactant, Polymer (ASP) floods have the potential for over 20% additional OOIP recovery.

For CEOR processes using alkalinity such as ASP, the injection water must be softened or desalinated to remove any calcium or magnesium content to prevent precipitation of these constituents. In surfactant flooding, an optimum salinity must be achieved in order to maximize the surfactant effectiveness. In addition, salinity directly correlates to the cost and effectiveness of polymer floods used in CEOR programs.

THE WATER STANDARD H₂OCEAN SPECTRUM® SOLUTION OFFERS:
- Customized and consistent injection water quality to maximize oil recovery and minimize formation of tight emulsions in produced water
- Modification of the Chemical EOR process while in the field to customize water quality and salinity based on reservoir response
- The ability to redeploy to another field after completion of any short-term Chemical EOR program
- Precise Chemical EOR chemical mixing and storage without need for comprehensive platform retrofits
- Treating produced water for reuse in EOR reinjection

Reducing salinity will lower chemical required and save on operating costs over the life of a project.