

PRRO WATER LABORATORY

The in-house laboratory at PRRO Water is staffed with experienced chemists using advanced equipment to characterize your water. PRRO thoroughly tests your water quality for the presence of various organic, inorganic, solid, liquid and gaseous impurities. After complete analysis, PRRO designs a cost-effective, environmentally-friendly process to treat and recycle the water along with the solid and liquid waste, based on the application and project needs. The treated/effluent water is analyzed in house and compared with the untreated/influent waste water to ensure it is in compliance with all state and federal regulations.

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PRRO WATER Core Capabilities and Testing

- Viscosity
- Drag Reduction
- Total Dissolved Solids (TDS)
- Total Hardness
- Calcium
- Magnesium
- Barium
- Strontium
- Boron
- Chloride
- Sulfate
- Carbonate
- Bicarbonate
- Alkalinity
- Conductivity
- Oxidation Reduction Potential (ORP)
- Total Oil and Grease (TOG)
- Bacteria:
Sulfate Reducing Bacteria (SRB)
and Acid Producing Bacteria (APB)
- pH
- Specific Gravity
- Temperature
- Chemical Oxygen Demand
(additional testing available)

Why is it critical to properly analyze the waste water for oilfield applications?

The treatment and recycling of produced water helps to mitigate the risk associated with the impurities present. To properly address these issues, the water needs to be analyzed accurately and scientifically so that a proper and adequate treatment process can be designed to mitigate the risks of reuse or disposal in a way that is safe, environmentally friendly and cost effective.

As the produced, flow back and frac water changes characteristics with time, it is critical to analyze the water as soon as it is produced or generated. That is why having an in-house water laboratory with qualified personnel is critical to the overall water management process.

PRRO Water not only has the in-house laboratory and qualified personnel for complete water analysis and treatment process design, but also has the rheology lab to analyze and verify the compatibility of the stimulation and production fluids used for hydraulic fracturing and production operations.

