

# A HIGHER STANDARD IN SERVICES

# **RELEVANT TO YOUR NEEDS**

Matrix Service offers excellence in engineering and specialty craft personnel that focus on highly effective solutions. As your contractor, we are stewards of your budget, schedule and resources. We fulfill your scope and technical requirements while putting safety and quality first.

#### Advanced chemical cleaning services

- Hydrocarbon decontamination
- Reactive product neutralization
- Pre-operational cleaning
- Process throughput improvement

## Reactive chemical cleaning services

- Scale removal from process surfaces
- Neutralization of acidic and alkaline deposits
- Conditioning of systems for operation
- Specialty focus on heat transfer restoration and flow improvement

#### Hydrocarbon decontamination

- Degassing and de-oiling of refining and petrochemical process systems
- LEL reduction for safe entry access
- Removal of hazardous sulfur species such as H2S and iron sulfide
- Deactivation of contaminants on alloys, catalysts and similar media
- Penetration and fluidization of heavy hydrocarbon deposits
- Various application methods including circulation, vapor phase, partial filling and aqueous-free treatments

## Specialty process applications

- Passivation of sensitive metallurgies
- Foamed application of solvents
- Displacement circulation methods
- Continuous parameter monitoring including rapid analytical sampling
- Waste minimization through refinement of cleaning processes

#### Specialty cleaning focus

- Alkylation units
- Ethylene furnace and quench systems
- Reactive product tanks and vessels
- Large refinery flare systems
- Pre-operational cleaning of steam generators
- Pickling and passivation of butadiene equipment
- Preparation and maintenance cleaning of amine systems
- Full unit decontamination



