INVESTIGATION & TREATMENT TECHNOLOGIES
CEC’s experience with designing, building and operating treatment plants and in-depth knowledge of the complex processes and critical details provide the basis for the resultant impact on treatment solutions for new and retrofitted treatment facilities.

MECHANICAL TREATMENT SYSTEMS
Physical/Chemical Treatment
- Air Stripping
- Chemical Precipitation
- Chemical Oxidation
- Ion Exchange and EDR
- Reverse Osmosis and Membrane Systems
- Evaporation
- Deep Well Injection
- Zero Liquid Discharge

Biological Treatment
- Activated Sludge Continuous Flow Systems
- Anaerobic Treatment and Gas Utilization – Power Generation, Preparation to Pipeline Quality and CNG Use
- Sequencing Batch Reactors (SBR)
- Membrane Biological Reactors (MBR)
- Fixed Film/Media Systems/Biotowers
- Aerated Lagoon
- Trickling Filter
- Moving Bed Bioreactor (MBBR)
- Fixed Film
- Immobilized Cell Bioreactor

Passive Treatment Systems
- Lagoon
- Constructed Wetlands
- Vertical Biochemical Reactors

Construction/Operation/Consultation Permitting
- Construction Observation and Commissioning
- Design/Build Services
- Operation and Maintenance Manual Preparation
- Sampling
- Process Operations Consulting
- Controls Improvements
- Management Assistance
- Contract Operations

Leachate treatment projects range from simple permitting to complex design engineering and can take the form of a CEC-led design-build approach.