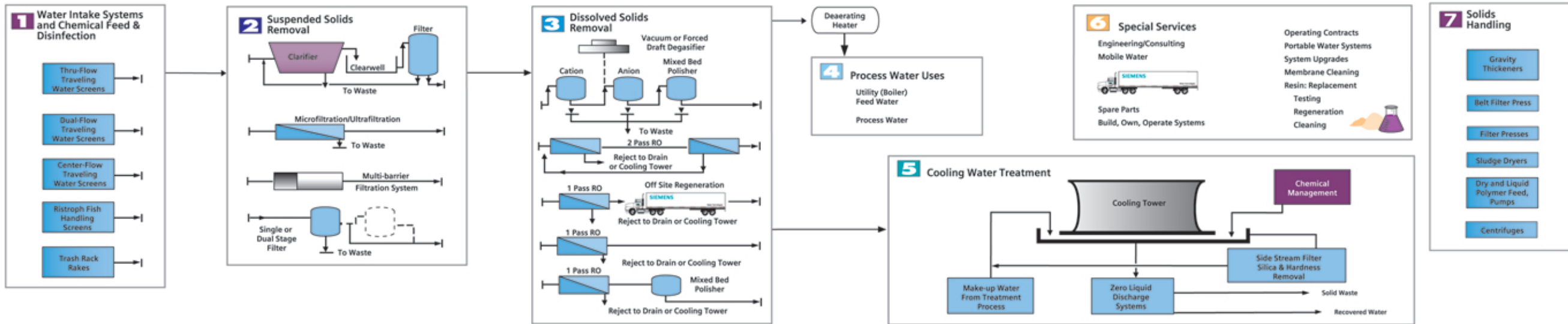


PROCESS WATER TREATMENT FOR THE HYDROCARBON PROCESS INDUSTRY

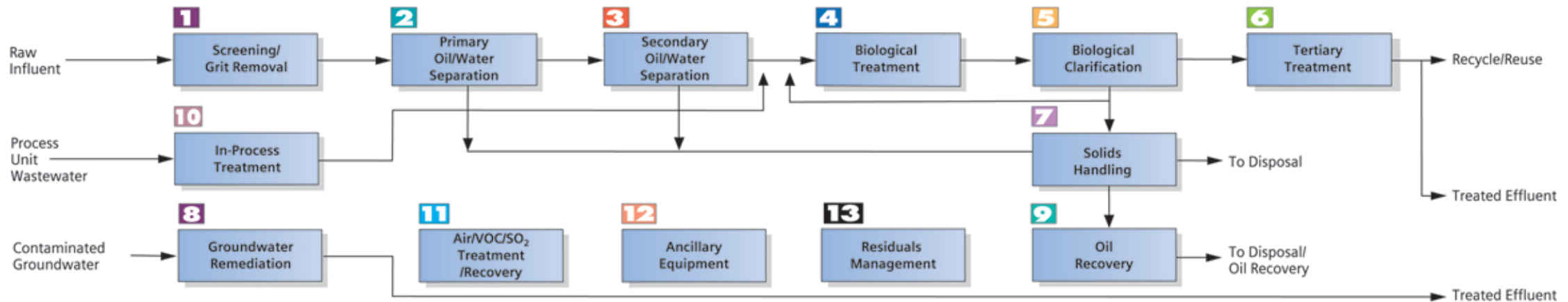


1 Water Intake Systems and Chemical Feed & Disinfection
 Thru-Flow Traveling Water Screens, Dual-Flow Traveling Water Screens, Center-Flow Traveling Water Screens, Ristroph Fish Handling Screens, Trash Rack Rakes, On-site Hypochlorite Generation, Residual and pH Correction Analyzers

2 Suspended Solids Removal
 Clarifiers, Media Filters, Membrane Filtration Systems (MF/UF), Packaged Treatment Systems, Multi-barrier Filtration Systems, Chemical Feed Systems, Coagulant Dosing Pumps

3 Dissolved Solids Removal
 Vacuum or Forced Draft Degassifier, Cation and Anion Exchangers, Mixed Bed Polisher, 2 Pass & 1 Pass RO Systems, Off Site Regeneration, Deaerating Heater, Chemical Feed Equipment, Strantrif® Controllers

WASTEWATER TREATMENT FOR THE HYDROCARBON PROCESS INDUSTRY



1 Screening/Grit Removal
 • Bar Screens
 • Grit Collectors

2 Primary Oil/Water Separation
 • API Separators(Covered & Uncovered)
 • Corrugated Plate Separators (CPS)
 • Hydrocyclone Separators
 • Coagulant Dosing Pumps

3 Secondary Oil/Water Separation
 • DAF/DGF Separators(Rectangular)
 • IAF/JGF Separators(Horizontal and Vertical)
 • DAF/DGF Separators(Circular)
 • Auto Shell™ Walnut Shell Filters
 • PolyBlend® Polymer Feed Systems
 • Coagulant Dosing Pumps

4 Biological Treatment
 • Aqua-Lator® Surface Aeration
 • Petro™ Membrane Bioreactor (MBR)
 • Aqua-Lator® Anoxic DDM Mixer
 • VARI-CANT® Jet Aeration Systems
 • OMNIFLO® Sequencing Batch Reactor
 • Orbal® Aeration
 • Vertical Loop Reactor
 • Fine Bubble Aeration
 • Coarse Bubble Aeration
 • RBC/SBC® Biological Contactors
 • Trickling Filters
 • PACT™ Treatment Process
 • BioTowers
 • Cannibal® Solids Reduction Process
 • Anaerobic Treatment
 • AGAR® Integrated Fixed Film Activated Sludge (IFAS) Process

5 Biological Clarification
 • Scraper Clarifiers
 • Tow-Bro® Clarifiers
 • Rim-Flo® Clarifiers
 • PolyBlend® Polymer Feed Systems
 • Chain & Scraper Clarifier (Rectangular)

6 Tertiary Treatment
 • Hydro-Clear® Rapid Sand Filters
 • Traveling Bridge Filters
 • Multiwash® Filters
 • Pressure Filters
 • Gravity Filters
 • GAC Fluid Beds
 • Membrane Filtration
 • Reverse Osmosis
 • Activated Carbon Adsorbers
 • Multi-Barrier Filtration
 • Re-chlorination
 • UV Disinfection

7 Solids Handling
 • Gravity Thickeners
 • Belt Filter Press
 • J-Press® Filter Presses
 • J-Mate® Sludge Dryers
 • Wet Air Regeneration Systems
 • Centramax™ Centrifuges
 • PolyBlend® Polymer Feed Systems
 • Coagulant Dosing Pumps

8 Groundwater Remediation
 • Auto Shell™ Walnut Shell Filters
 • Rotating/Submerged Biological Contactors
 • BioTowers
 • Activated Carbon
 • GAC Fluid Beds
 • PACT™ Treatment Process

9 Oil Recovery
 • Recovery Services

10 In-Process Treatment
 • Zimpro® Wet Oxidation Systems
 • Metals Removal
 • Coker Clarifiers
 • Desalter Oil/Water Separators
 • Selenium Removal
 • Amine Purification
 • FCC Scrubber Water Treatment

11 Air/VOC/SO₂ Treatment
 • Activated Carbon Adsorbers

12 Ancillary Equipment
 • Polymer Feed Systems
 • Chemical Feed Systems
 • Potable Water Systems
 • Odor Control

13 Residuals Management
 • Spent Caustic, Spent Acid and Organic Waste Management
 • Spent Catalyst Recovery
 • Spent Carbon Reactivation

Services
 • Pilot Testing
 • Engineering Studies/Services
 • Recycle/Recovery Services
 • Activated Carbon Services
 • Build-Own-Operate Outsourcing
 • Ion Exchange/RO Services
 • Service Contracts/Preventative Maintenance
 • Start-up Services
 • Temporary Water Services