

# ECA 11 Versatility Hailed by Diverse Industries

### *Problem*

Industrial effluents do not always respond to polymers and generic coagulants - not consistently, not economically and not in a simple, single-step process. A highly charged cationic demulsifier blend is called for to maximize water quality and minimize capital and overhead costs.

### *Solution*

ECA\* 11, a proprietary organic/inorganic blend has been successfully applied at petrochemical plants, oil reclamation facilities and aircraft manufacturers. Often used without pH adjustment, and rarely requiring more than a single treatment tank, ECA 11 has impressed a new family of wastewater generators.

### *Results*

#### **Case I**

A rubber extruder in the South treats milky white, high-solids effluent at pH 7 using 2500 ppm ECA 11. Whitish solids which are produced immediately are filter-pressed out of clear, almost colorless water. The water, analyzing at 20-90 ppm Oil&Grease (well below the limit of 150 ppm), is discharged to the sewer.

#### **Case II**

A cast iron stamping plant in the Midwest generates a mixture of parts rinse and mop water. The highly contaminated brownish water is treated continuously by metering in 5000 ppm ECA 11. An oily layer is periodically skimmed off; the clear water discharged to the sewer.

#### **Case III**

An electric utility in Hawaii generates a highly stabilized cleaning solution from degreaser-washing operations. The alkaline washings, at pH 8-9 are continuously treated with 1000 ppm of ECA 11, en route to a centrifuge. Dry solids are removed, and the clear, yellowish water is painlessly polished by ultrafiltration.

#### **Case IV**

A metal finishing company in Southern California machines aluminum and steel for ammunition casings. The spent coolant emulsion produced is milky white and fairly neutral. In a small batch tank, 4000 ppm of ECA 11 and 2000 ppm of sulfuric acid are mixed and settled. A top oily layer lifts out of hazy water which is neutralized with caustic and settled. Within an hour, a top floc lifts out of clear, pale blue sewerable water.

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Emulsions Control, Inc. 925 Hale Place Ste A 7 Chula Vista, CA 91914; Tel (619) 656-8899; Fax (619) 656-8895; e-mail – [emulsions@juno.com](mailto:emulsions@juno.com)