

Mobile Containerized RO Units, USAID

Potable Water Supply



Year: 2006

Start-Up Date: 2/2007

Client/Owner: Parsons

Engineer: Parsons

Location: Baghdad, Iraq



Application: Portable Potable Water Supply

Scope of Work: Ten containerized surface water treatment systems; process included coagulation, clarification, media filtration, RO, chemical treatment and chlorination.

Operation Data: Feed water TDS: Up to 5000
Permeate TDS: 70 ppm
Permeate flow: 60, 120, 240 GPM (3 models)
Recovery: 75%, w/ 8.5 %
Permeate Blending, 6.5-9.2 pH range,
Other: 2/1 (2 Stage) for 2.5K, 3/2 (2 stage) for 5K, 5/3 for 10K

Capacity: 10000 population = 350K GPD;
5000 Population = 175 K GPD;
2500 population = 87K GPD

Project Summary: Complete Supply of containerized surface pretreatment and RO equipment with the following plant capacity rated for 2,500, 5000, & 10,000 population. Assorted tanks were supplied for Flush mixing (80-320 Gals), Flocculation chamber (935-3,500 Gals), and clarifier (80-330 Gals) were supplied to meet the RO water requirements.