

UNION CITY WATER SYSTEM

The Union City Water Plant was built in 1954 as a 5.2 million gallons per day iron removal filter plant. The plant was renovated in 1996 and the capacity increased from 5.2 M.G.D. to 10.4 M.G.D. The newly renovated plant is completely computerized and is designed for automatic operation. The plant is also equipped with a 500 KW standby emergency diesel engine generator that will operate the water plant in case of power outage. The plant has eight mix media filters. The average flow is approximately 4.0 million gallons per day. The plant operates about 10 hours per day, seven days per week. Five deep wells provide the raw water to the treatment plant ranging in depth from 600 feet to 900 feet. These wells provide the treatment plant with some of the best water found anywhere in the United States.

Average Water Quality Data

	<u>Raw</u>	<u>Finished</u>
Alkalinity	81.5 mg/l	72.0 mg/l
Hardness	66.0 mg/l	62.0 mg/l
Iron	1.0 mg/l	0.0 mg/l
Free Carbon Dioxide	75.3 mg/l	5.0 mg/l
Flouride	0.2 mg/l	1.0 mg/l
Ph	6.5	7.0

The treatment process is composed of aeration, flocculation, sedimentation, and filtration. Average amounts of chemicals added in the treatment process are as follows: chlorine, 1.5mg/l; fluoride, 1.0 mg/l; lime, 1.8 mg/l; adequate for corrosion control, 0.35 mg/l.

Three high service pumps pump the treated water into the distribution system. High service pump capacity is 7200 gallons per minute or 10.4 million gallons per day.

The distribution system is composed of six elevated water tanks, 3 pump stations, and about 350 miles of water lines. The six elevated water tanks have a total capacity of 2,125,000 gallons. We have two underground storage tanks with a total capacity of 300,000 gallons. The total storage capacity is 2,425,000 gallons of water. The Union City Water System services 6500 customers.

RATE SCHEDULE

Water Tap Fees Within the Corporate Limits:

- a) 5/8 " x 3/4" meter.....\$300.00
- b) 1" meter\$400.00
- c) 1 1/2" meter\$550.00
- d) 2" meter.....\$700.00
- e) 3" and up.....Labor and materials cost
plus 20% of said costs.

(When the contractor installs the tap, the tap fee is \$400. Meters to be used are Sensus Compound Meters.)