

DATE: 14 August 1987

FROM: Utilities Systems General Foreman

TO: Director, Utilities  
Via: Utilities General Foreman

SUBJ: RAW WATER DEMAND, HOLCOMB BOULEVARD WATER TREATMENT PLANT; INFORMATION CONCERNING (

Ref: (a) N.C. Admin.Code Title 10, Chapter 10, Section .1002 Par (b)(3)

1. The reference states "The combined yield of all wells of a water system shall provide in 12 hours pumping time the average daily demand as determined in subparagraph (f)(7)." The present raw water well field production capacity at the Holcomb Boulevard Water Treatment Plant equals 3960 gallons per minute. The raw water requirement (demand) for the month of July 1987 equaled 95,000,000 million gallons which, divided by 30 days, gives an average daily demand of 3,166,666 gallons. In order to pump this amount in 12 hours, as required by the reference, we would need a combined well yield of 4398 gallons per minute. The present well production less the required production leaves a deficiency of 438 gallons per minute.

2. There exists at the old Tarawa Terrace Plant 4 usable raw water wells that have not been secured for V.O.C. pollution. The wells are TT-31, TT-52, TT-54, and TT-67. Their total combined well production equals 586 gallons per minute. Although this total production would make up the deficiency, the design of the 670 system did not address utilizing these wells. The wells can only be used through the temporary emergency raw water line, installed prior to 670 completion. Although we anticipate no future problems with this raw water line, continued use would be required. Additionally no automatic controls exist for these wells and further pumping tests would be required to determine the exact amount of water delivered to the 670 facility. The existing wells are old and continued pumping at their present capacity is doubtful.

3. In view of the above, I believe a contract should be procured to drill and install five additional raw water wells for the 670 plant. The estimated cost including buildings, power, raw water lines, pumps, telemetry equipment would be approximately \$425,000.00. This would provide the 670 facility with the required pumping capacity, well rotation capability, and flexibility when wells are out for service, for maintenance, testing, etc.

4. Your assistance in this matter would be very much appreciated.

B. M. FRAZELLE, II

