

COUNCIL ACTION FORM

SUBJECT: MIXING SYSTEM IN BLOOMINGTON ROAD ELEVATED WATER TANK

BACKGROUND:

The Bloomington Road Elevated Tank (BRET) is a two-million-gallon steel water tank which was constructed in 1989. In 2009, a second elevated tank began operation in the same distribution pressure zone as BRET. With the new tank in operation, the Water Plant can now temporarily take BRET out of operation for maintenance. In 2010, BRET will be repainted.

Prior to painting the tank, a mixing system will be installed. In order to maintain good water quality, each elevated tank must have adequate mixing occur in the tank. If mixing does not take place, water inside the tank may stratify. This means that water at the bottom of the tank moves in and out of the tank freely while a layer of "old" water becomes stagnant above it. If this stratification takes place, the "old" water layer can degrade water quality and taste to our customers.

In 2008, Water Plant staff conducted tests to determine if there was significant water stratification in BRET. Although water is safe throughout the tank, there was evidence that some stratification was taking place. Therefore, staff feels it is prudent to install a mixing system while the tank is out of service.

The current Capital Improvements Plan includes \$475,000 for the BRET painting project. Of this amount, \$75,000 is allotted for the mixing system. The anticipated cost for equipment and installation of the mixing system is \$75,000.

ALTERNATIVES:

1. Grant preliminary approval to the plans and specifications and issue a Notice to Bidders, setting December 9, 2009 as the bid due date and December 22, 2009 as the date for public hearing and award.
2. Do not approve plans and specifications at this time.

MANAGER'S RECOMMENDED ACTION:

The Bloomington Road Elevated Tank will be taken out of service for maintenance in 2010. It is prudent to install a water mixing system prior to painting the tank so that water does not become stagnant in portions of the tank. Therefore, it is the recommendation of the City Manager that the City Council adopt Alternative No. 1, thereby approving the plans and specifications and issuing a Notice to Bidders for this project.