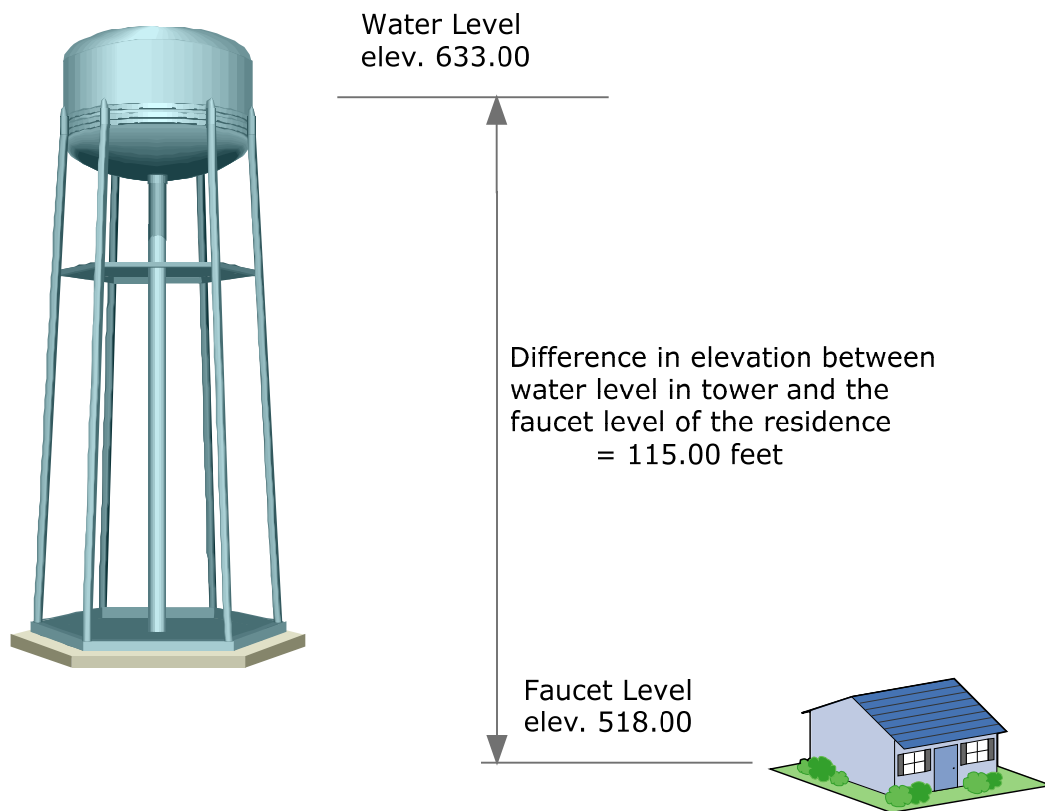


Water Storage Facilities



Every 2.31 feet of elevation difference, or head, produces 1 psi (pounds per square inch) of water pressure. Since the difference in elevation between the water level in the water tower and where the water comes out of the faucet in the house is 115.00 feet, the water pressure at the faucet will be 115.0 divided by 2.31 or 50 psi.

Factors that may affect the exact water pressure at the tap include the distance from tower to the house, the size and type of water lines that transport the water, and the amount of usage by other customers between the tower and the house.

Diagram 10.2

Relationship Between Elevation and Pressure

Darmstadt Tank



Photo 11.1 **Darmstadt Tank** - 1.0 Million Gallon Water Tower

Darmstadt Tank, shown in photo 11.1, is located on Boonville-New Harmony Road one-quarter mile west of St. Joe Avenue. This 1.0 million gallon tank was constructed in 1974 and is made of steel. It is approximately 100 feet tall and the bowl is 80 feet in diameter. It is in the Northern pressure zone of the system.

Killian Reservoir



Photo 11.2 **Killian Reservoir** – 4 Million Gallon above Ground Reservoir

Killian Reservoir, shown in photo 11.2, is located on Harmony Way across from Mater Dei High School. It is located on the same parcel as the Killian booster station. Constructed in 1972, it is made of steel, is 35 feet tall and is 150 feet in diameter. It holds 4 million gallons of water and is the supply for the Killian booster station which feeds the west side of the system. The water in Killian reservoir is on the central pressure zone.

Volkman Tank

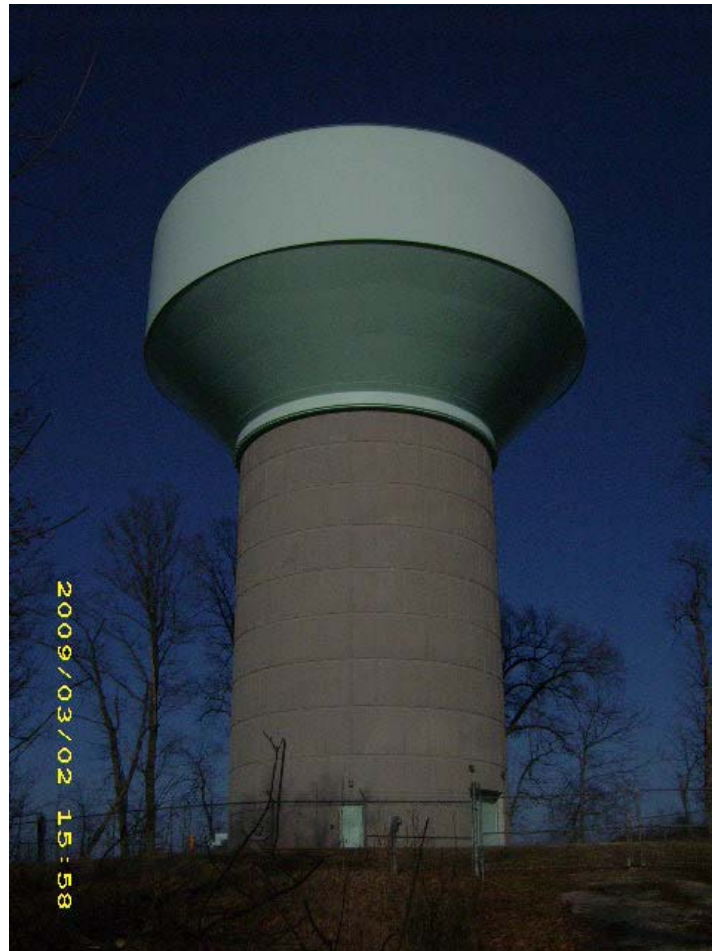


Photo 11.3 **Volkman Tank** - 1.5 Million Gallon Water Tower

Volkman Tank is located at the far north end of the system in the Cambridge subdivision on Volkman Road. It was built in 1999. The column is made of concrete and the bowl is made of steel. The bowl is 90 feet in diameter and the tank is 120 feet tall. Like the Darmstadt tank, Volkman is in the Northern pressure zone of the system.

USI Tank



Photo 11.4 **USI Tank** - 0.5 Million Gallon Water Tower

The USI tank is located on property owned by the University of Southern Indiana. The property was leased to the Evansville Water and Sewer Utility for \$1. It is the newest tank in the system and was completed and put into service in July of 2010. Like Volkman tank, it is a composite tank with the column made of concrete and the bowl made of steel. The bowl is 51.5 feet in diameter and the tank is 153 feet tall. The USI tank is located in the Killian pressure zone of the system.

Lincoln Tank

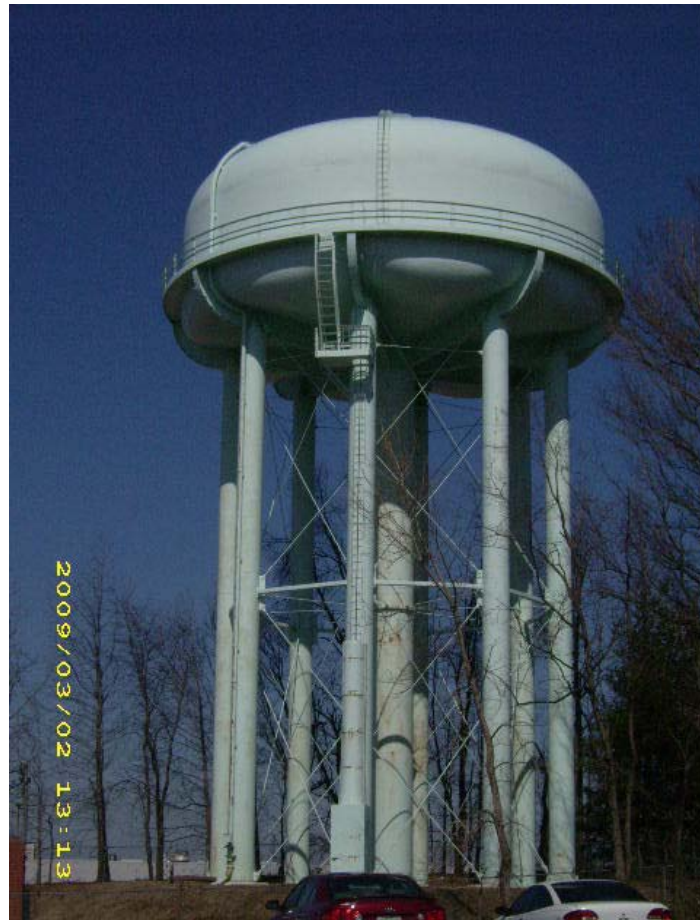


Photo 11.5 **Lincoln Tank** - 0.5 Million Gallon Water Tower

Lincoln tank is located near the southeast corner of Lincoln Avenue and Greenriver Road. Lincoln Tank holds 0.5 million gallons of water and feeds the Lincoln booster station which sits less than 50 feet from the tank. It was constructed of steel in 1967 as a replacement for an older tank that sat in the lot next to the tank. Its bowl is 60 feet in diameter and the tank is approximately 105 feet tall. The Lincoln tank is on the central pressure zone of the system.

Upper Mt. Vernon Tank



Photo 11.6 **Upper Mt. Vernon Tank** - 0.5 Million Gallon Water Tower

The Upper Mt. Vernon tank is located on Upper Mt. Vernon Road just east of Koring Road. It holds 0.5 million gallons of water and was constructed in 1971. It is a pedestal tank made of steel. The bowl is 50 feet in diameter and is 95 feet tall. This tank was repainted in January of 2012. Like the USI tank, Upper Mt. Vernon tank is in the Killian pressure zone of the system.

Grimm Road Tank



Photo 11.7

Grimm Tank - 0.5 Million Gallon Water Tower

The Grimm Road tank is located on Grimm Road just south of Lincoln Avenue in Warrick County. The tank holds 0.5 million gallons of water. Like Upper Mt. Vernon tank, Grimm is a pedestal tank constructed of steel. It was built in 1974 and stands 100 feet tall. The bowl is 50 feet in diameter. Grimm Rd tank is the only water tower in the Lincoln pressure zone.

Campground Reservoir

The only water storage facility not shown in the photos is Campground Reservoir. Campground Reservoir is a 20 million gallon underground reservoir constructed of concrete. There is nothing visible above ground with the exception of some vent pipes. It was constructed in 1927. It is 325 feet long, 325 feet wide, and is 25.5 feet deep.