



MEMORANDUM

TO:	Brandon Laurie Pakpour Consulting Group	Date: June 15, 2016 Time: 10:30 am Weather: Sunny & Cool
FROM:	Thomas L. Swayze, SE	Job No: 2016022
PROJECT:	Tournament Tank No. 1 Water Tank Structural Observation of Tank	

We arrived on site at approximately 10:00 am to observe the current state of water tank. The following observations were made:

1. Access was permitted to the inside of the tank through one of the man doors. Similar to Tournament Tank No. 2, we observed some corrosion on the underside of the rafters, the underside of the roof plate, the dollar plate, and the ladder on the inside of the tank. Beam flanges flaked off by hand in various location due to the severe corrosion on the beam flanges, where some of the bottom flanges appear to be delaminating. The corrosion appeared to be more severe than Tank No. 2, however the extent of corrosion could not be properly assessed without cleaning and observation from scaffolding, which is scheduled for next week.
2. Access was permitted to the roof of the tank by use of the ladder on the outside of the tank. The tank hatch was observed and appeared to be in poor condition with rust developing around its perimeter and underneath the lid. The roof plate was observed to have patches of minor rust throughout its area. The center vent hood was removed for observation of the condition of the dollar plate, which showed signs of minor corrosion but appeared to be in fair condition without significant section loss. The collar around the vent exhibited significant section loss and should be replaced in kind. Girder ends did appear to be corroded somewhat but could be cleaned up prior to painting.

It should be noted that scaffolding will be installed on the inside of the tank next week, allowing us to further assess corrosion damage to the roof plate and rafters.



Figure 1: Corrosion on Underside of Roof



Figure 2: Roof Rafter at Dollar Plate from Center Vent



Figure 3: Section Loss in Center Vent Collar



Figure 4: Corrosion of Roof Rafter Flange



Figure 4: Patches of Rust on the Roof Plate