

# Bowling Green WPC 2007 and Beyond

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WPC Superintendent

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# The Reason For Change



# **Our Approach to Projects**



**2007**

**Changed Operational Procedures**



**2008 - 2009**

**Replaced Sand Filters**



**2010 - 2011**

**Replaced UV System**



**2011 - 2012**

**Upgrade to Poe/Mercer Pump Station  
and 3<sup>rd</sup> Screw Pump**





**2016**

# **Biological Phosphorus Removal**



**2017**

**Odor Control**



**2018 - 2019**

**Grit Upgrade and Additional Screening**



# Future Projects



**2020**

**Concrete Lids for ATAD**



**2020 - 2021**

**Blower Project**

**????**

# **Odor Control at Poe/Mercer Pump Station**



**????**

**2 Additional Clarifiers**







# THANK YOU !!

Doug Clark

WPC Supt.

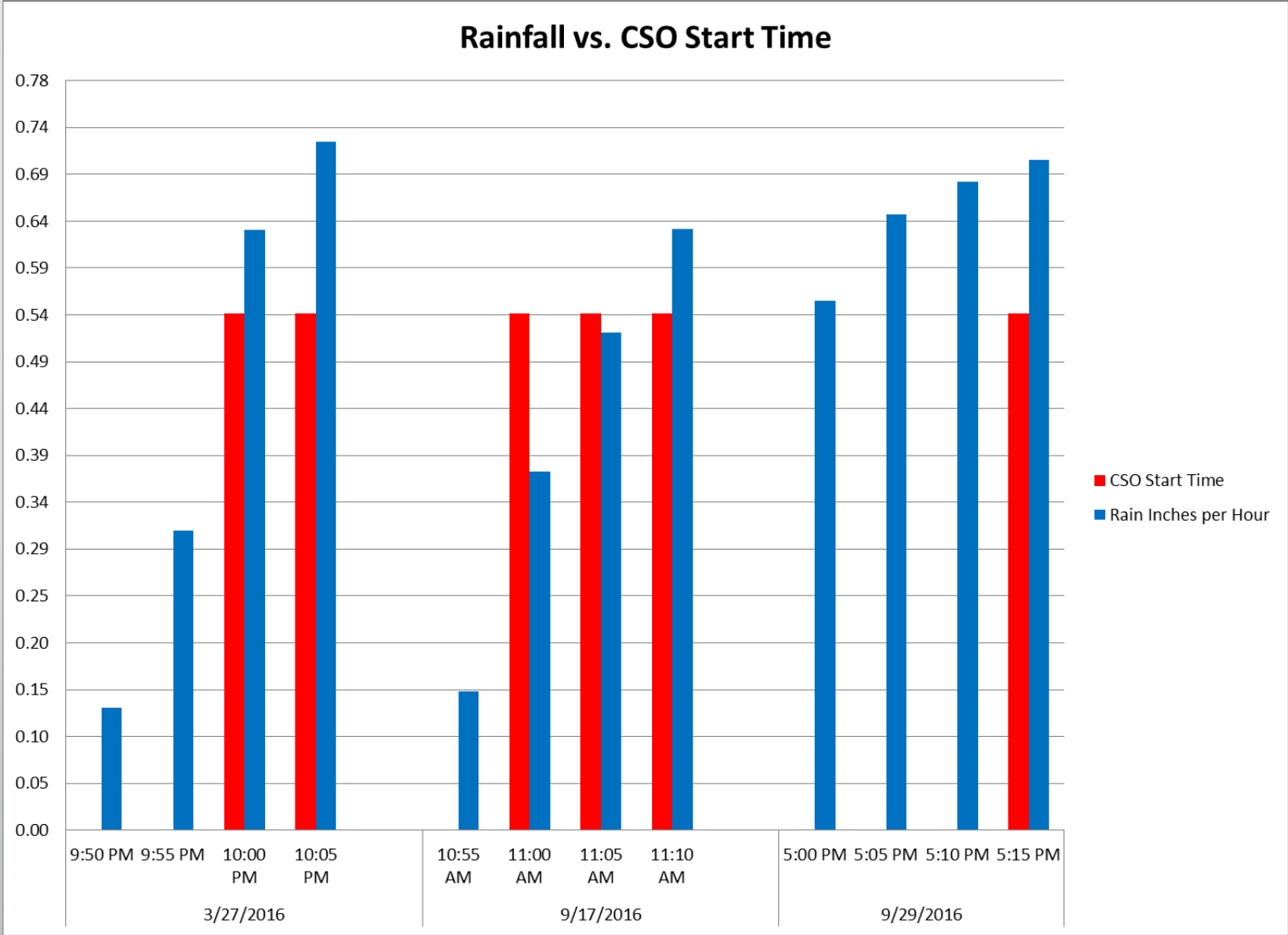
City of Bowling Green

419-354-6274

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# No Room For Error !

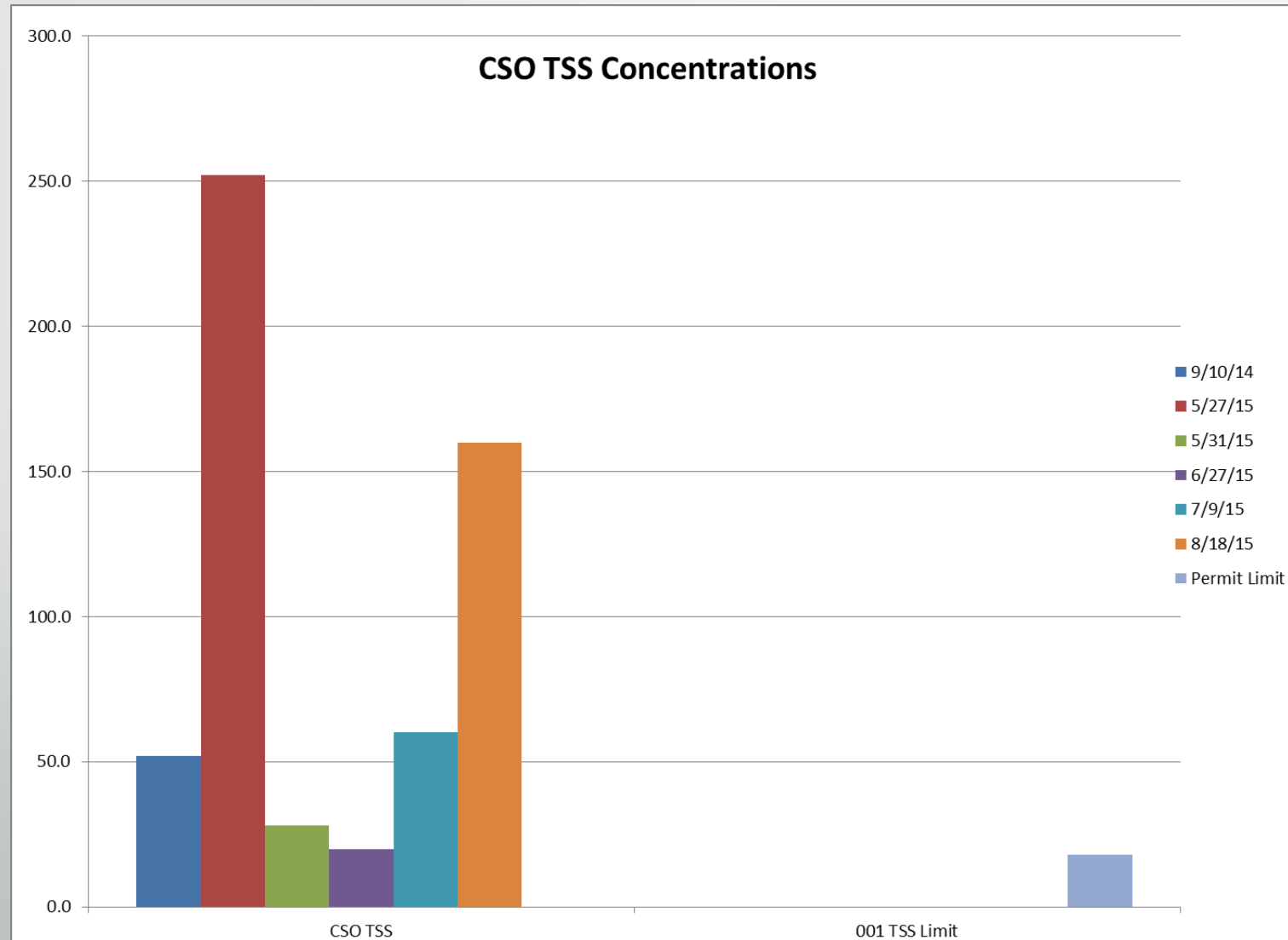


# The True Impact

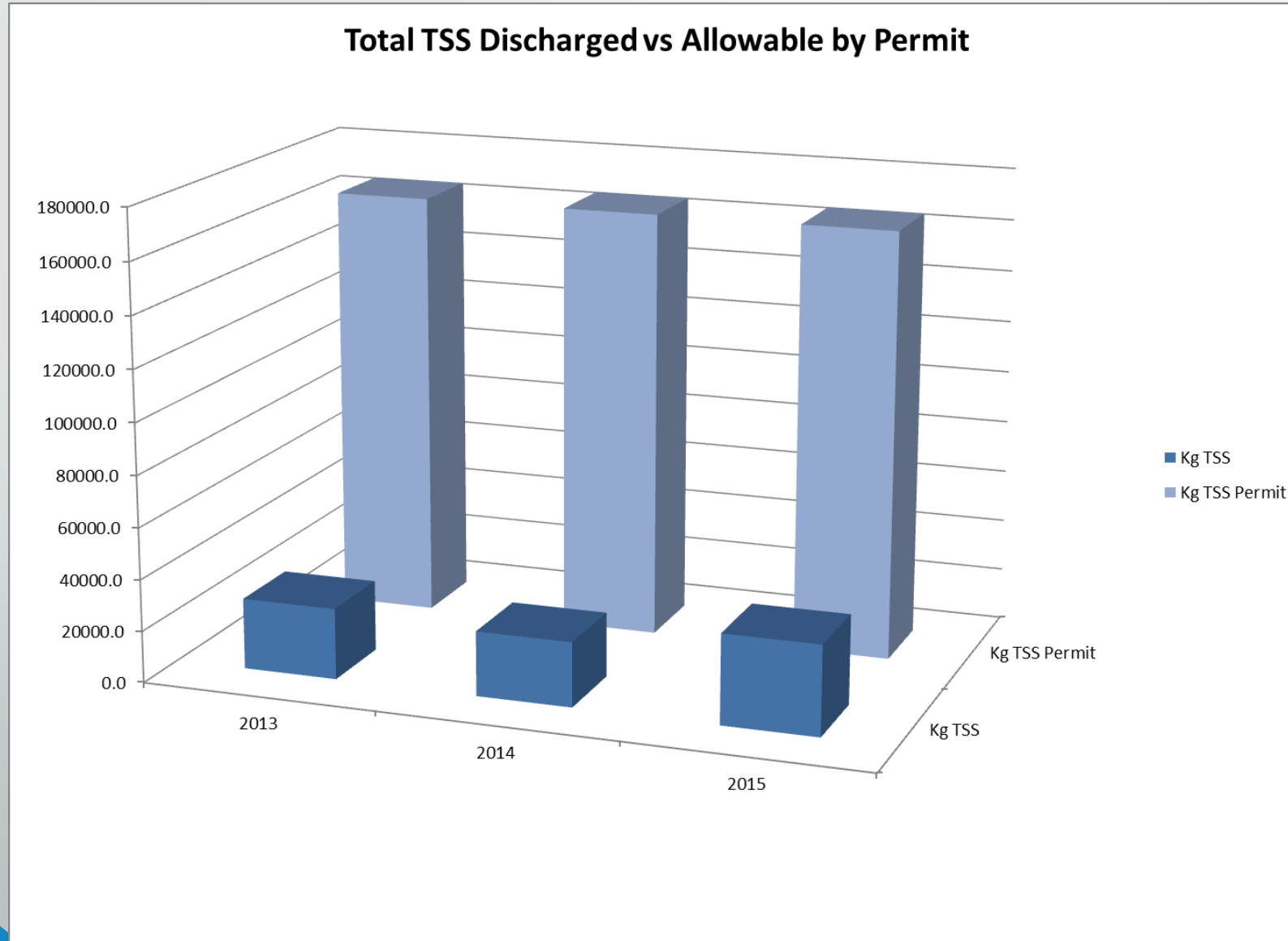
1. We are treating the water as fast as it can be pumped to the plant (30 MGD fully treated)
2. We are meeting the conditions set forth in our typical year scenario.

So what is the true water quality impact of the of the CSO ????????

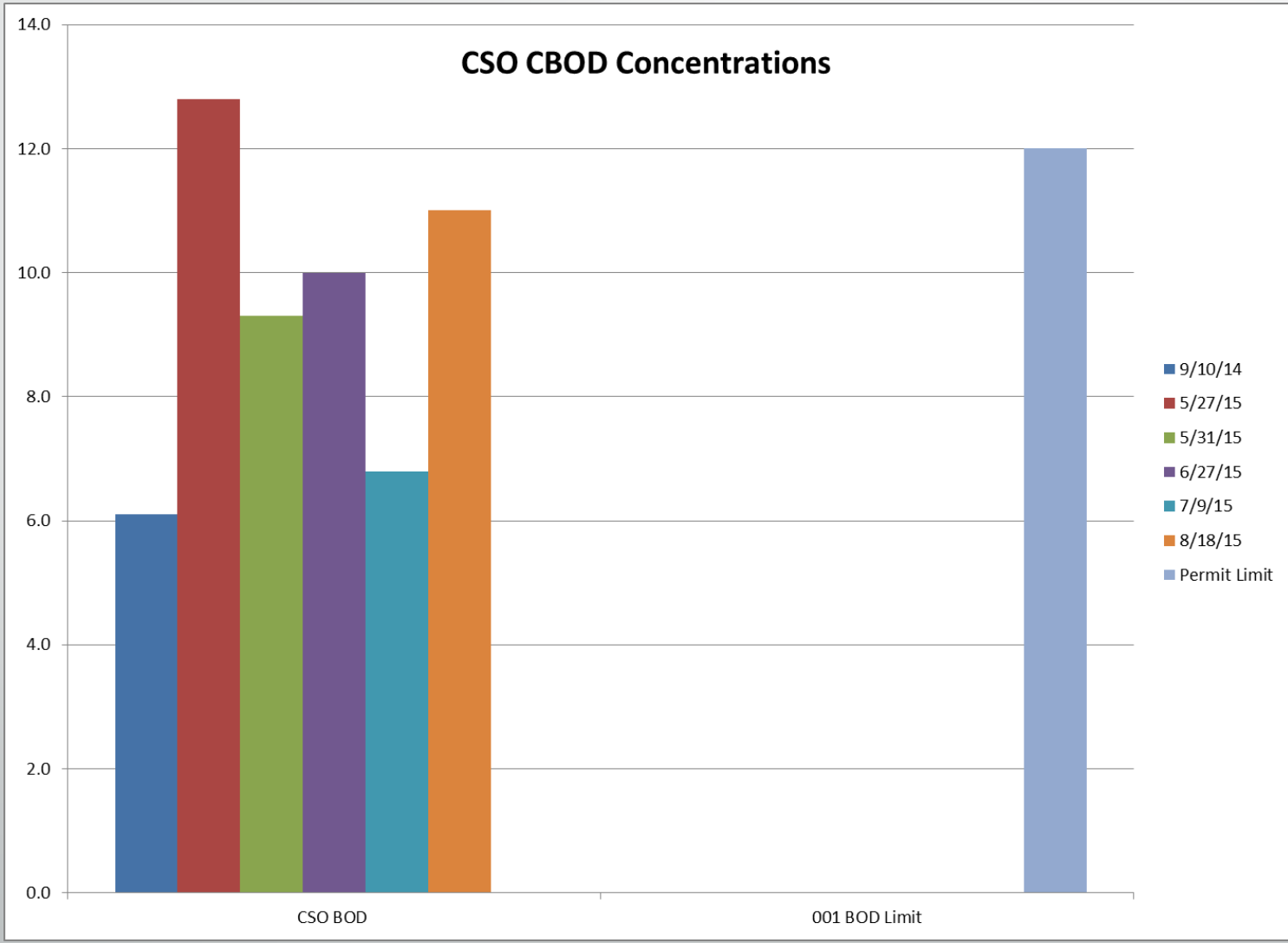
# TSS Concentrations, not too good !



# TSS Annual Loadings, not too bad !

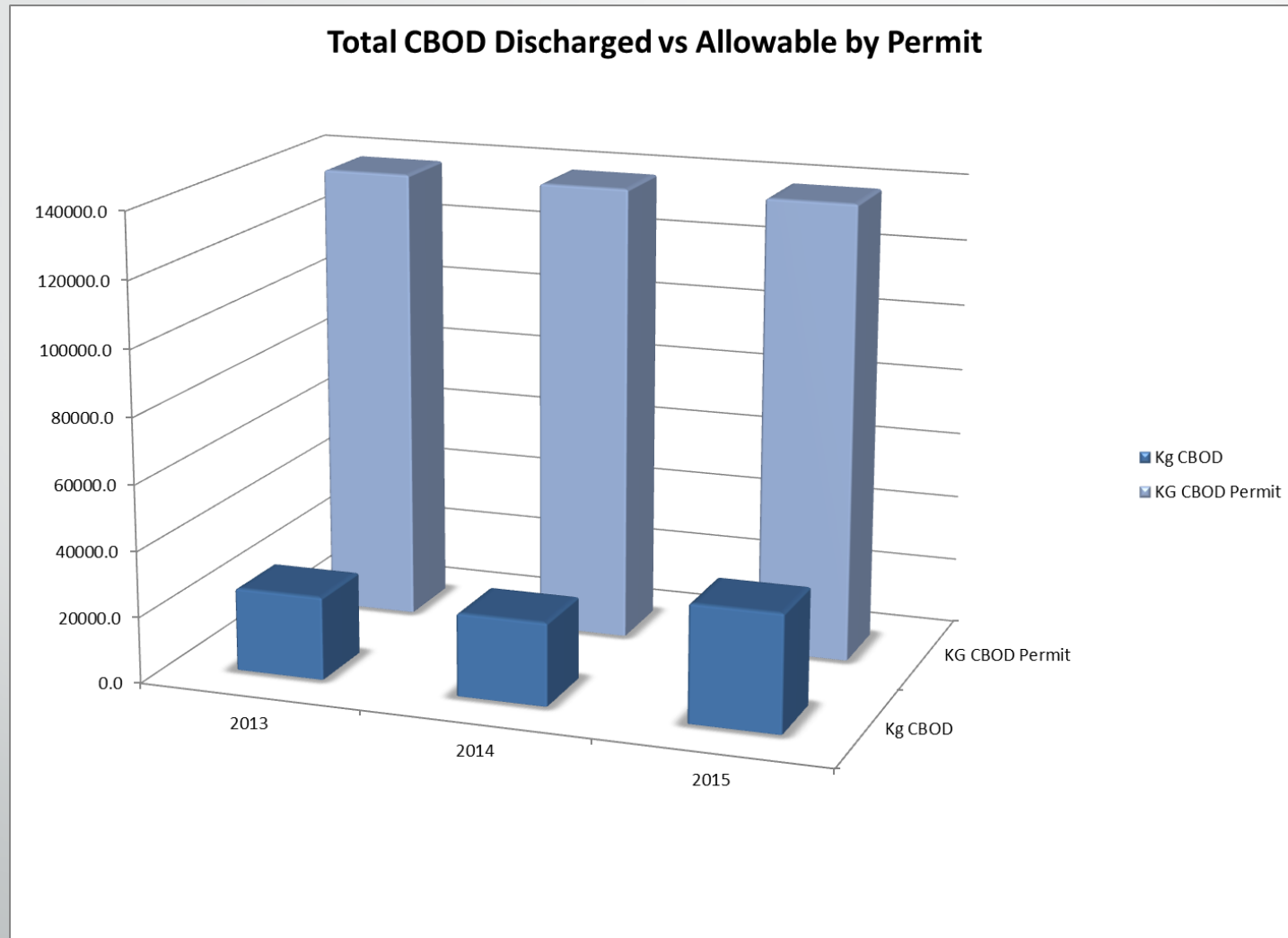


# CBOD Concentrations, not bad !





# CBOD Annual Loadings

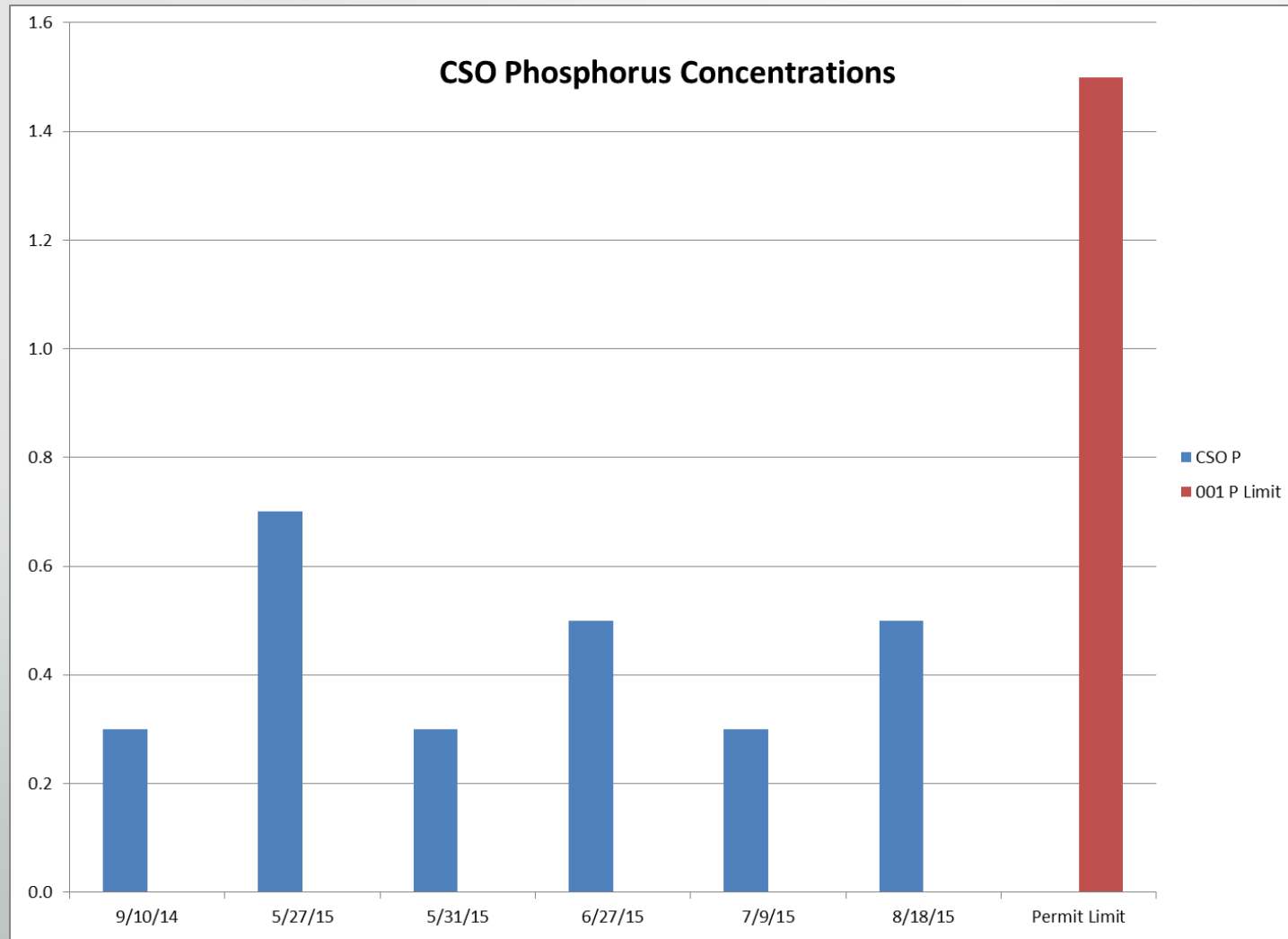




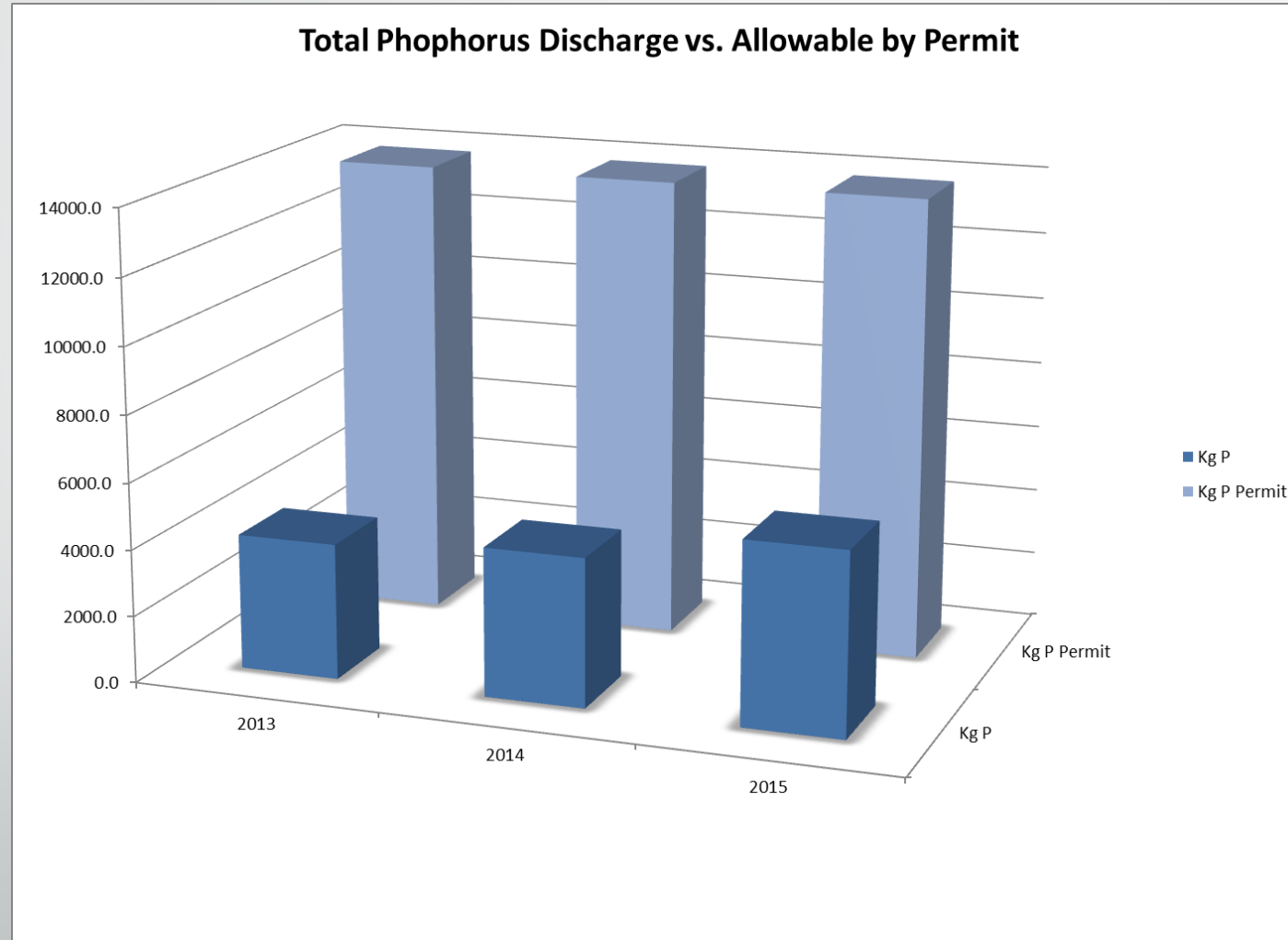
Now the biggies.....

**NUTRIENTS ! ! ! !**

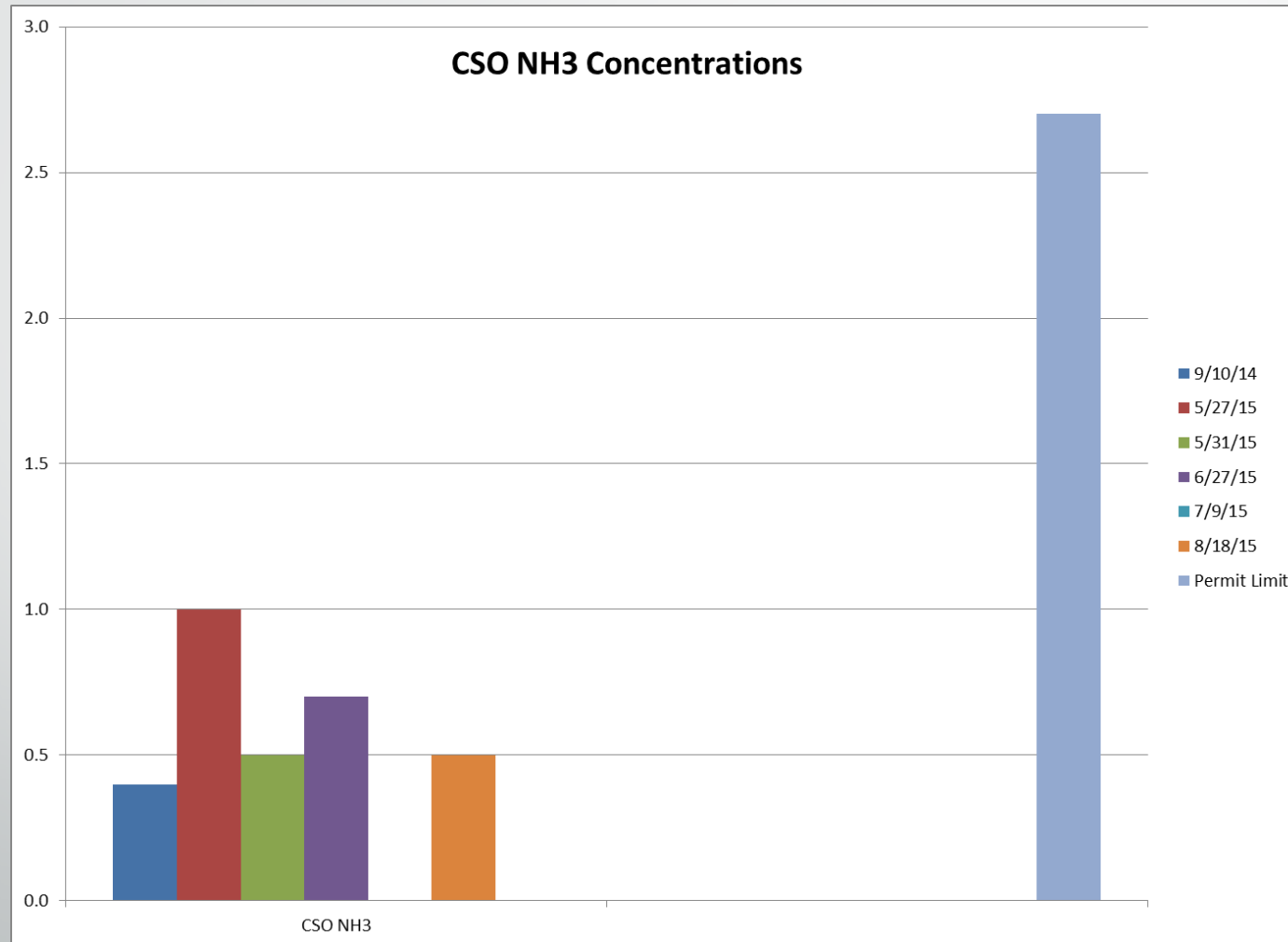
# CSO Phosphorus Concentrations



# Phosphorus Annual Loadings



# CSO Ammonia Concentrations



# Ammonia Annual Loadings

