



#### Status of USGS Super Gages Network

Nutrient Monitoring Council
September 16, 2015
Springfield, IL

**Doug Yeskis** 

### **USGS Nutrient Monitoring in Illinois**

#### **Presentation Outline**

- Brief Review of Plan
- Status of Activities
- Future Plans

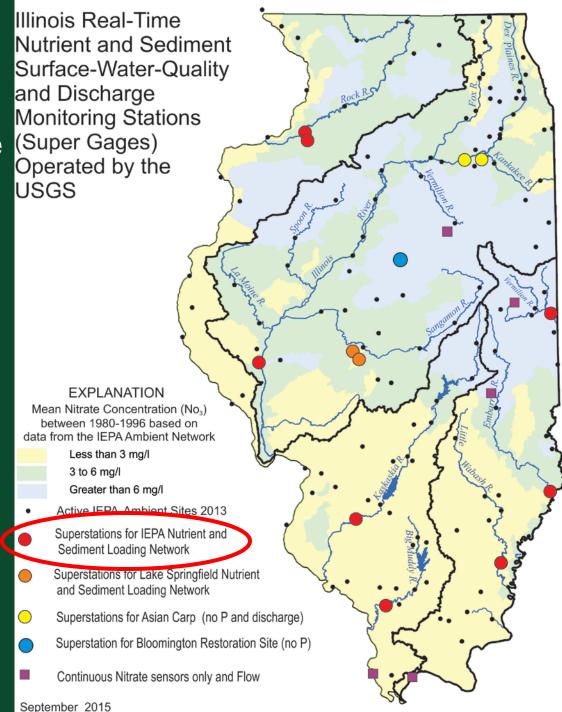


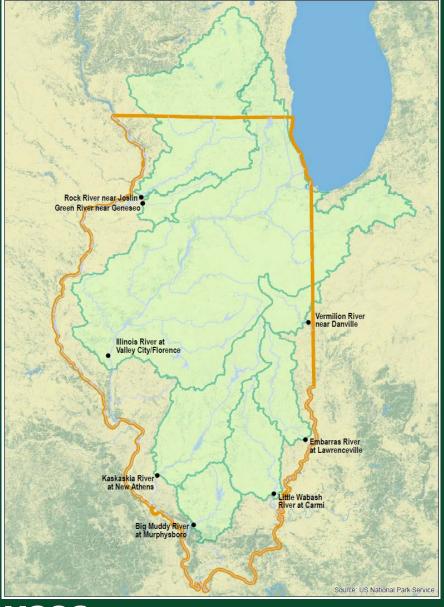


#### The Plan

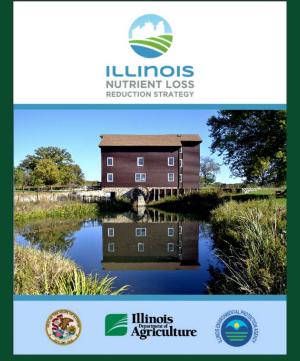
- Basins covering almost
   75% of area of the State
  - Rock River
  - Green River
  - Illinois River
  - Kaskaskia River
  - Big Muddy
  - Little Wabash
  - Embarras River
  - Vermilion River
- Current USGS gaging station (flow)
- Current IEPA Ambient site/Historical Data







# Basins cover almost 75% of the land area in the State







#### **Status of Activities**

- Construction is Proceeding
  - Infrastructure for all sites, but one, is completed
  - Equipment is deployed and being transmitted publically for 3 stations
- All stations should be completed and transmitting internally by October 2
- Some station(s) will need re-evaluation







### **Schedule Impacts**

- Agreement April 1
- Weather

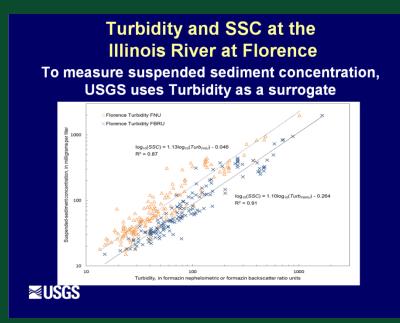


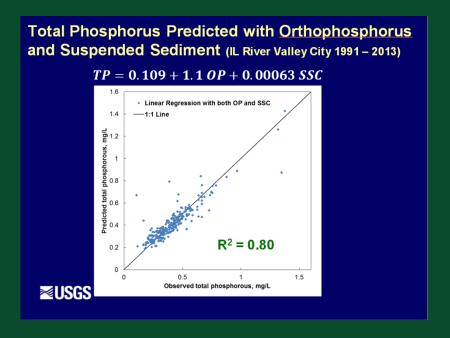




#### **Future Plans**

- Finish rest of installations (end of Sept.)
- Re-engineer where needed (Oct.)
- Build record for surrogates (2015-2016)
- Report w/ surrogate relationships (2016-2017)







## USGS Continuous NO3 and PO4 in the Illinois River



Prepared in cooperation with the Illinois Environmental Protection Agency

Continuous Monitoring of Sediment and Nutrients in the Illinois River at Florence, Illinois, 2012–13



Scientific Investigations Report 2015-5040

U.S. Department of the Interior U.S. Geological Survey

Terrio, P.J., Straub, T.D., Domanski, M.M., and Siudyla, N.A., 2015, Continuous monitoring of sediment and nutrients in the Illinois River at Florence, Illinois, 2012–13: U.S. Geological Survey Scientific Investigations Report 2015–5040, 61 p.,

http://dx.doi.org/10.3133/sir20155040.

http://pubs.usgs.gov/sir/2015/5040/pdf/sir2015-5040.pdf.







#### **Questions?**

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