

LNBA - NRCA Workshop 2017

Hurricane Matthew

GLDSBR

BE MORE DO MORE SEYMOUR

Public Utilities

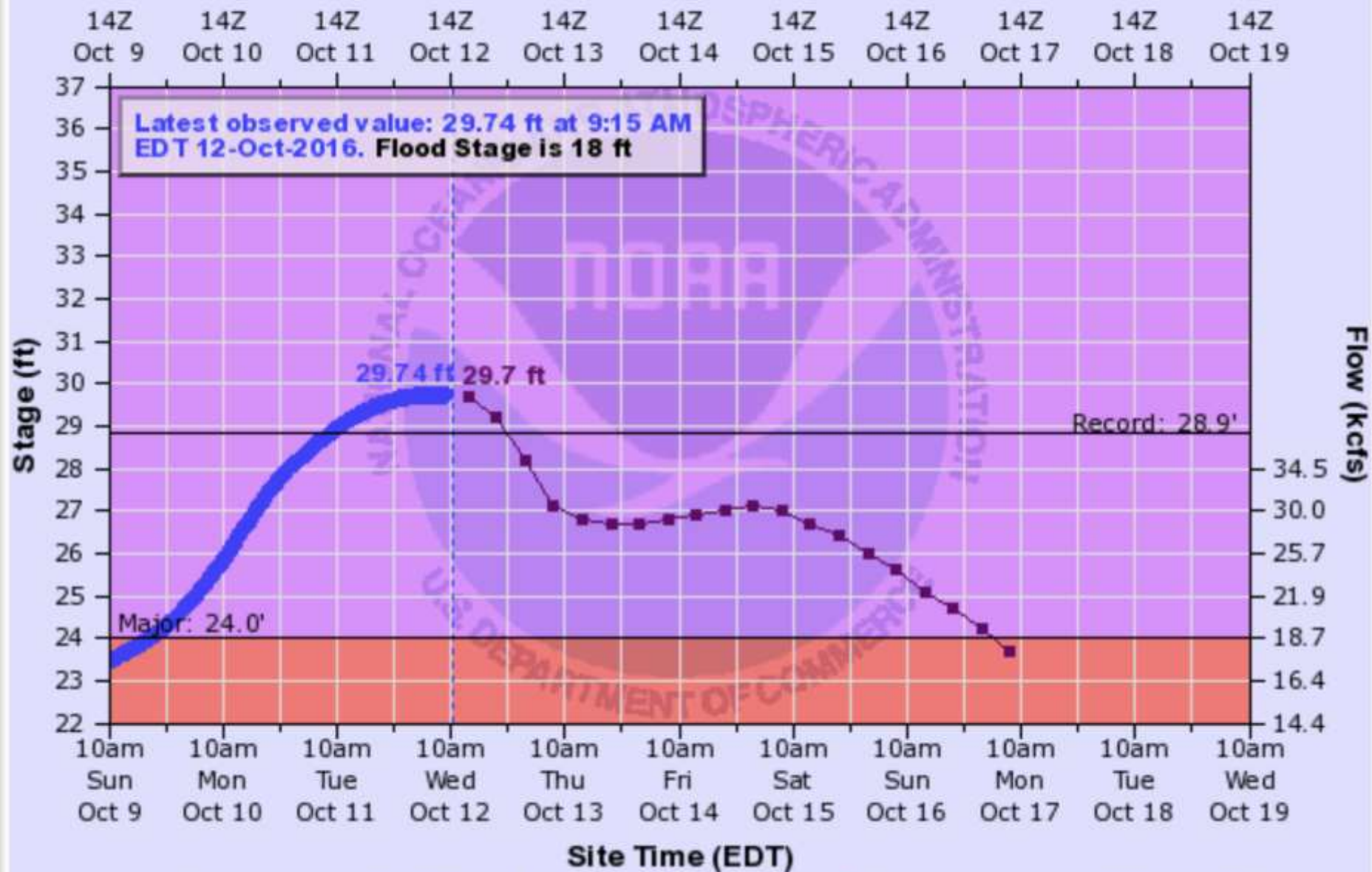
Mike Wagner: Deputy Director Public Works-Utilities

- How I got here: From Titusville, PA to Goldsboro, NC
- 9th State - PA, NJ, VA, WI, RI, SC, CA, FL, NC
- Grade IV, C-Surface, LA, SI, (SS school only)
- St. Leo University:
 - BA Business Management
- UTILITY MANAGMENT CERTIFICATE
 - First Week in August
 - American Water College / Fresno State
- North Carolina Central University:
 - EMPA Program: Masters Public Administration
 - Liberia Water and Sewer Corporation



NEUSE RIVER NEAR GOLDSBORO

Universal Time (UTC)



Arrington Bridge Road



10/12/16
29.7
Feet



11/28/16
4.4
Feet

Our Employees



- **35 Employees**

- Water Treatment Plant = 346 Hours
- Water Reclamation Facility = 721 Hours
- Compost Facility = 346 Hours

1277 Hours



Hurricane Preparedness

- National Incident Management System: IS-100, IS-700
 - Mandated by the Post-Katrina Emergency Management Reform Act of 2006
- Establish lines of communication / Establish Operator Schedules / Get Food and Water
- Top off fuel in Generators
- Sandbagging, flood shields, and other barriers

Water Treatment Facility

- Continuous Treatment
- Flooding off Little River was 2' Less than Floyd



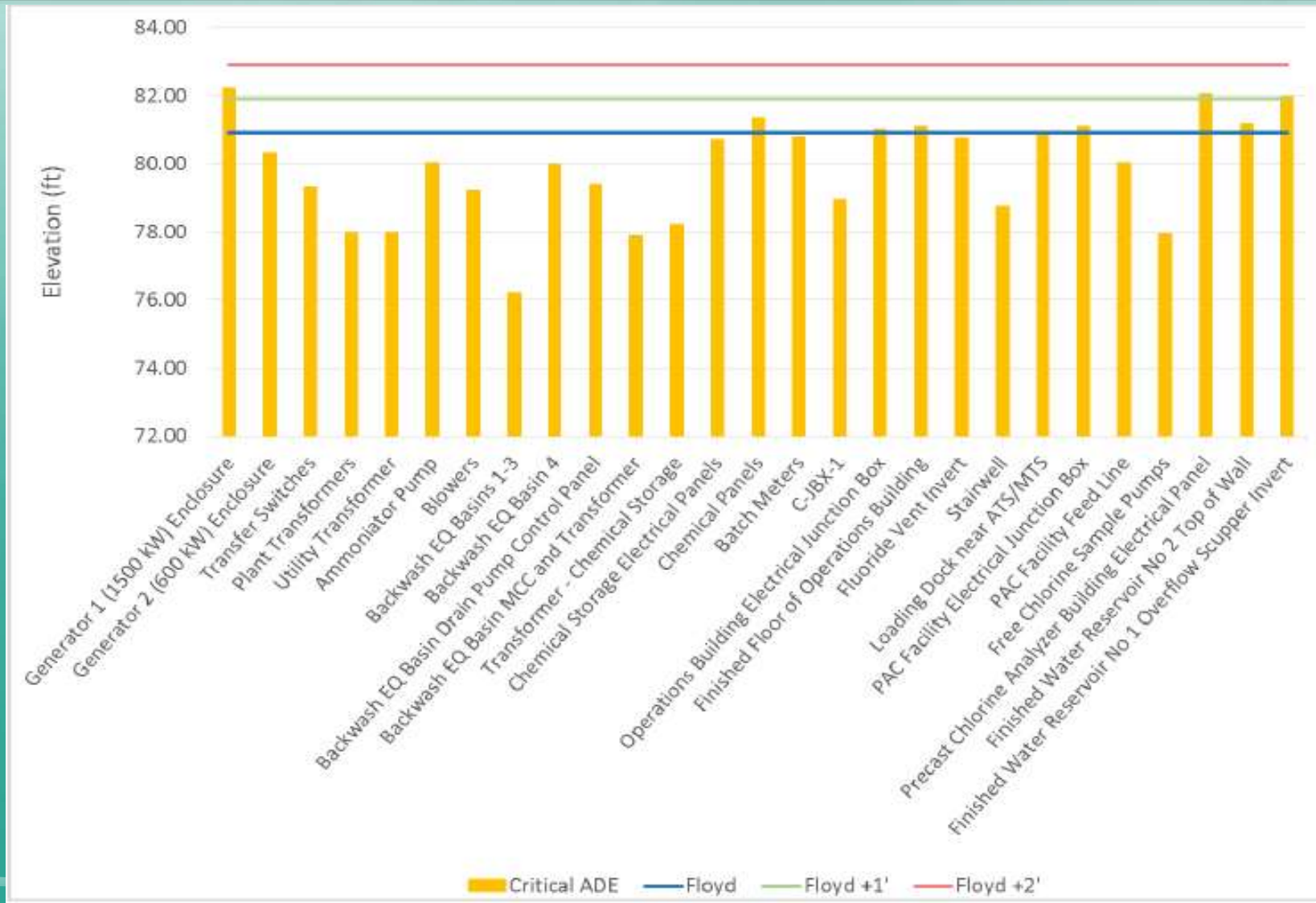
Co\$t of Matthew for WTP

- Estimated \$190,000 final repairs
- MudBasin Motors and Gearboxes
- Erosion to Intake Screen



WTP Mitigation

Criticality Rating	Definition
1	Plant can operate and produce water as normal.
2	Plant can operate and produce water as normal. Other systems affected.
3	Plant can produce water as normal, but operations may be affected.
4	Partial loss of plant function.
5	Complete loss of plant function.



[illegible]

Pump Stations

- 26 Pump Stations



- 432 Generator Run Hours

Co\$t at the Pump Stations

- Estimated Total for Final Repairs and Mitigation
 - \$710,000 / 10-11 Months



Pump Station Mitigation

- 6 Projects
 - Raising panels, flood shields, flood pumps



Water Reclamation Facility

- Generator Power 6.5 days
- Peak Flows of 35 Million?
(Average 9.5)
- Estimated \$90,000 final repairs



WRF Post Matthew

- **Monday 10/10/17 9am 4 Operators Flooded in**
 - Left at 6pm Friday through 2.5' of water
- **Topped off fuel @ 7am 2 Generators**
 - Lost power Saturday Fuel conservation Thursday
- **Food brought in by boat Wednesday**



WRF Pictures



Compost & Wetlands: Co\$t \$1870

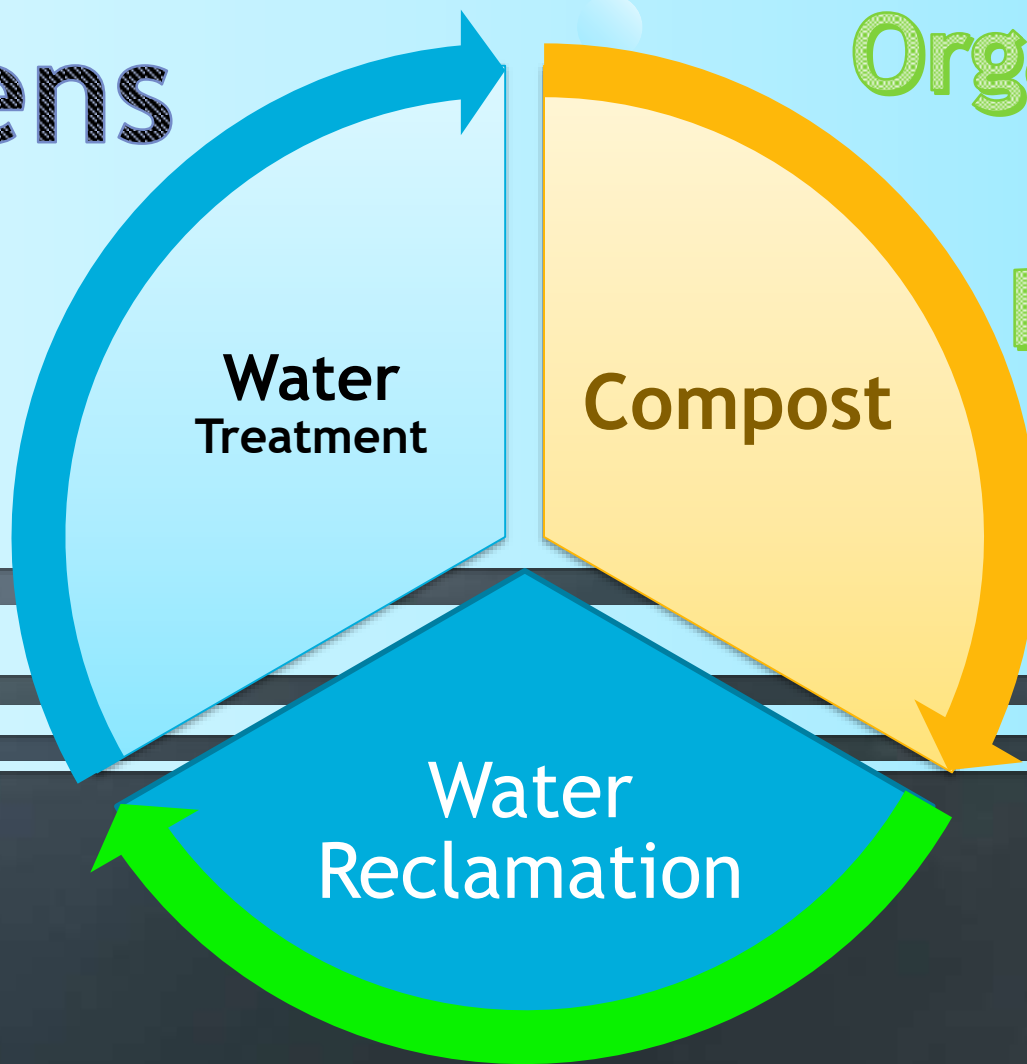


Lesson Learned

- Fuel and other mitigation
- Prepare
- Document
- Paperwork
- Bring extra cloths 😊

Citizens

Organizations & Businesses



Interdepartmental



BE MORE DO MORE SEYMOUR

Public Utilities

Thank You!

QUESTIONS?