

Schedule and Logistics

Blue Plains Advanced WWTP



Schedule and Logistics

- Finish at 3:00 pm to beat traffic
- Need to stay on Schedule
 - Please adhere to break times
- Restrooms
- Lunch
- Index Cards for Panel Topics
- Questions AM/PM
- Training Hours and Certificates

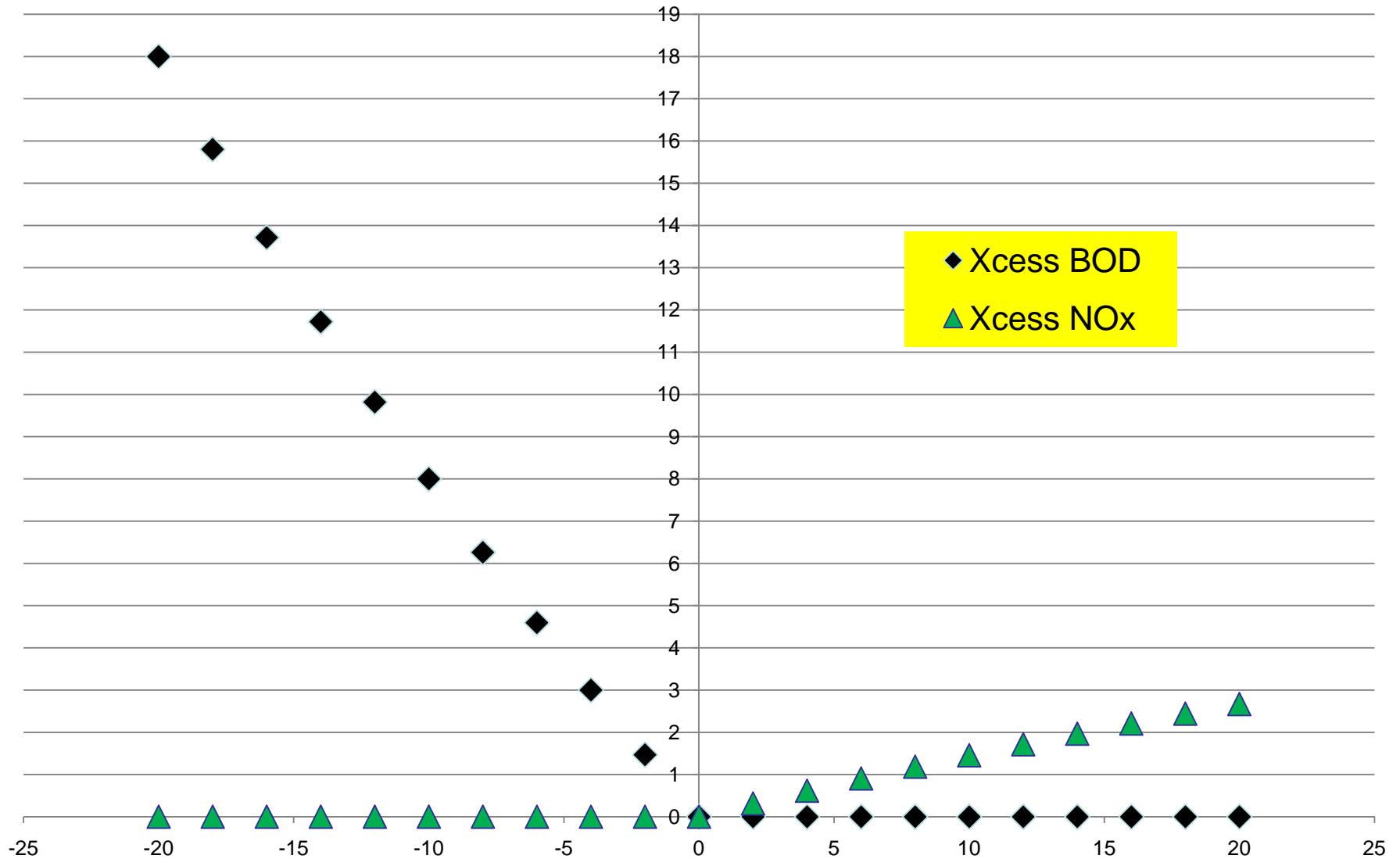
Nitrogen Removal Considerations

- Influent fractionation and modeling
- Alternate carbon substrates
- Rates and half saturation implications
- DO Control – Nit and Deoxygenation
- On-Line and Off-Line Analyzers
- Control Strategies
- Basic Instrumentation and Design

Analyzers Only Portion of Story

- mg/l NO_x for denitrification per analyzer
- MeOH dose = 3:1 mass basis
- What really is the flow to the reactor?
- What is the RAS rate?
- What is the actual mass of methanol reqd?
- How much error can be tolerated?

Impact of Flow Errors



Rate Impact at Low Concentrations

