



Development of Water Quality Standards for Willard Spur

Recommendations for Actions

July 9, 2014



How do we protect Willard Spur?

- **Regulatory tools**
- **Manage the potential risks**
 - Is Willard Spur changing?
 - Evaluate/monitor inflow patterns
 - Reduce nutrient loads from all sources
 - Reduce risks of impacts from Plant





Long term Monitoring Strategy

- **What are the key objectives for monitoring?**
- **What will UDWQ be monitoring?**





BRMBR Habitat/Water Management Plan

- How might Bear River TMDL affect WQ?
- How might Bear River Project affect flows?
- Can BRMBR management actions improve the WQ and volume/timing of water entering Willard Spur?
- Can/should BRMBR manage Willard Spur water levels and period of flowing regime?
- HCWMA?





- LEGEND**
- Willard Spur Study Area
 - BRMBR Boundary
 - Unit Boundaries
 - Canal
 - D-Line Dike
 - ◆ Flow Measurement Site





Reducing Risks from the Plant

- **Nutrient load control**
 - Should P removal be continued?
 - Can pasture be utilized to reduce the volume of water and nutrient load?
 - Does the water present other risks?





Reducing Risks from the Plant

- **Continue practice of discharging to the pasture on private property?**
- **If so, need to modify UPDES to add the new outfall location**
 - Pasture is jurisdictional wetland, same waterbody as Willard Spur
 - Include additional provisions





Reducing Risks from the Plant

- **UPDES permit modifications**
 - Add outfall location for pasture
 - Water management plan specifying what, when, and how effluent will be controlled
 - Agreement with property owner
 - Additional sampling of effluent that leaves property (west end)
- **Any risks that should be addressed?**





Other ideas

- **Phragmites Control Plan for pasture**
- **Repurpose the State Park Lagoons**
 - Not feasible
- **Constructed Treatment Wetlands**
- **Anything else?**

