

**North Central Texas**  
**Water Quality Project**



**Reservoir  
Best Management Practices**

Mark Ernst  
Tarrant Regional Water District

**North Central Texas**  
**Water Quality Project**



**Hypolimnetic Aeration**

- Mixing of colder water layer with air
- Reduces anoxic release of phosphorus from sediments

**Hypolimnetic Release**

- Release of colder, nutrient rich waters from reservoir
- Reduces opportunity for eutrophic conditions

**North Central Texas**  
**Water Quality Project**



**Alum Treatment**

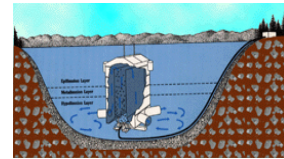
- Alum addition to floc phosphorus and reduce availability to algae

**North Central Texas**  
**Water Quality Project**



**Water Column Mixing**

- Water column mixing- disrupts blue-green algae cycle



**North Central Texas**  
**Water Quality Project**



**Dredging**

- Removes sediment

