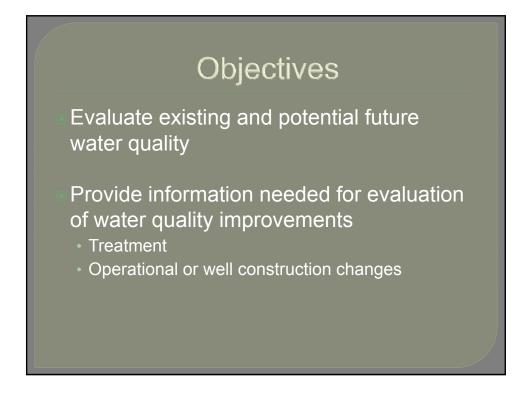
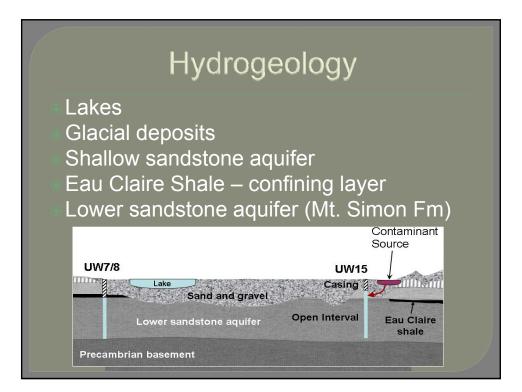
East Side Water Supply Plan Water Quality Considerations

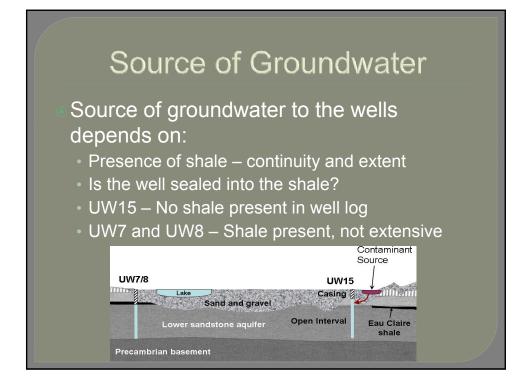


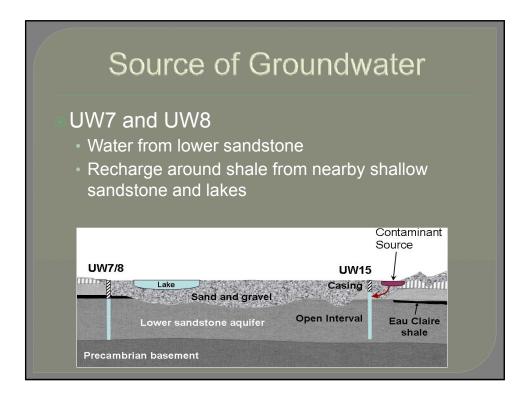


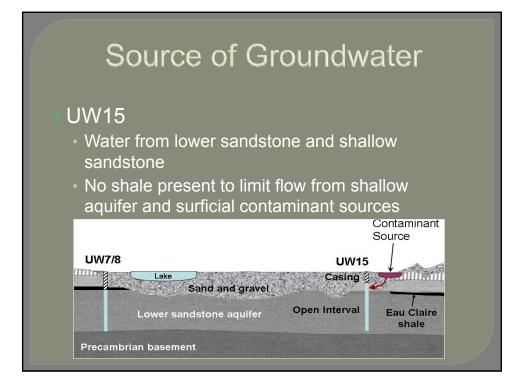
Agenda

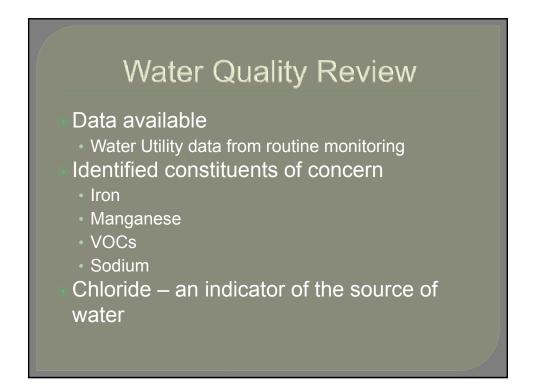
- Review well specific hydrogeology
- Source of groundwater to unit wells
- Review of existing water quality
- Identify opportunities to manage water quality

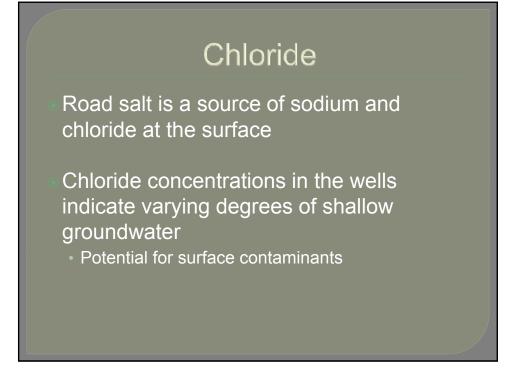


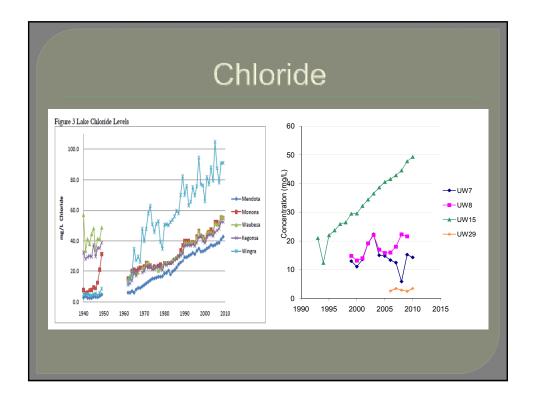


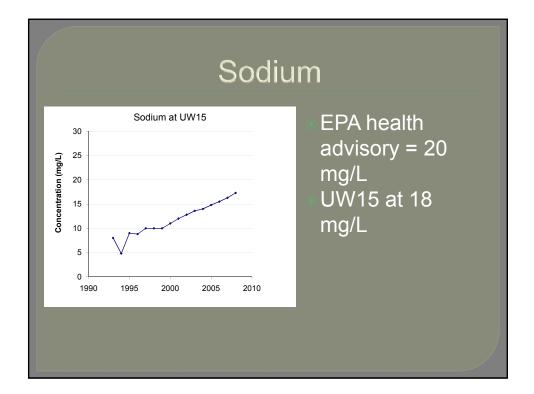


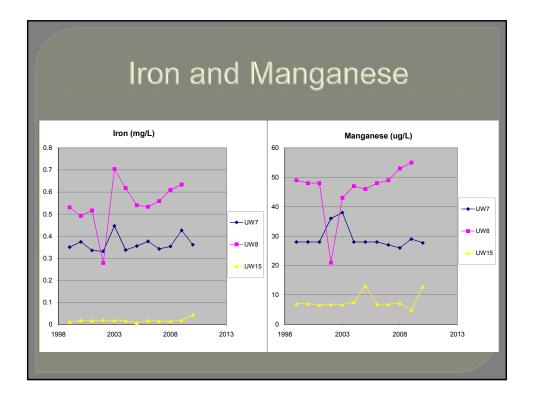


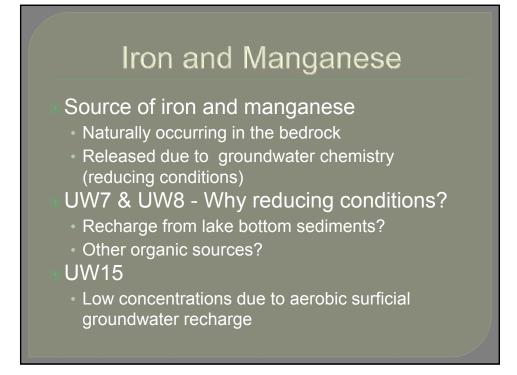








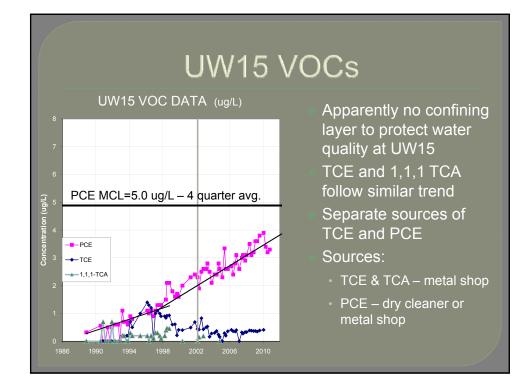


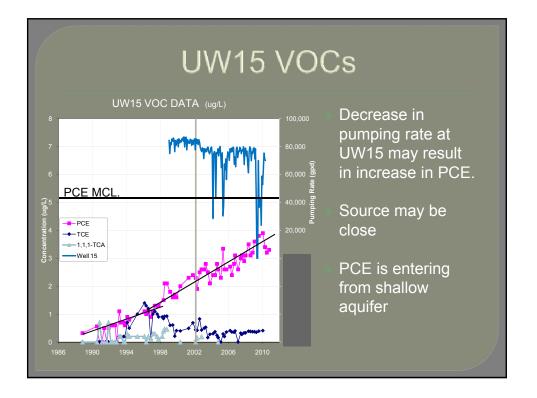




New filtration provides high quality water

- Pumping limited to 50% of capacity due to concerns of nearby Sycamore landfill
- New data from a sentry well suggests the shale provides more protection than earlier estimates
- If true, may be able to safely increase UW29 pumping rate





Conclusions – UW7 and UW8

- Sealed through shale
- Shale missing below the nearby lakes
- Iron and manganese concentrations caused by:
 - Reducing conditions
 - Due to recharge through organic lake sediment?
 - Aquifer Management Strategies:
 - · Extending casing would probably have limited benefit

Conclusions UW15

PCE at UW15

- Increasing trend, approaching the MCL
- Source is likely a nearby PCE use
- Unclear if shale is present but affording no protection

Aquifer Management Strategies

- Remediate or control source
- Extend casing deeper
- Dilute with high pumping rates