# SPOKANE DISSOLVED OXYGEN TMDL ADVISORY GROUP MEETING

Dec. 6, 2016 10:00 am – 12:00 pm Spokane County Water Resources Center

#### AGENDA

I. Welcome and Introductions

#### I. Updates

a. NPDES Permit Update

b. Monitoring Work Group

- c. USGS Groundwater Study Funding
- I. How the CEQUAL Model was applied to the Spokane

- I. Literature Review Scope of Work
- I. Pathway to 10-Year Assessment
- I. Zinc Inhibition
- I. Action Items and Next Meeting

Pat Hallinan Karin Baldwin Karin Baldwin

Dr. Scott Wells Dr. Dave Dilks

Karin Baldwin

Karin Baldwin

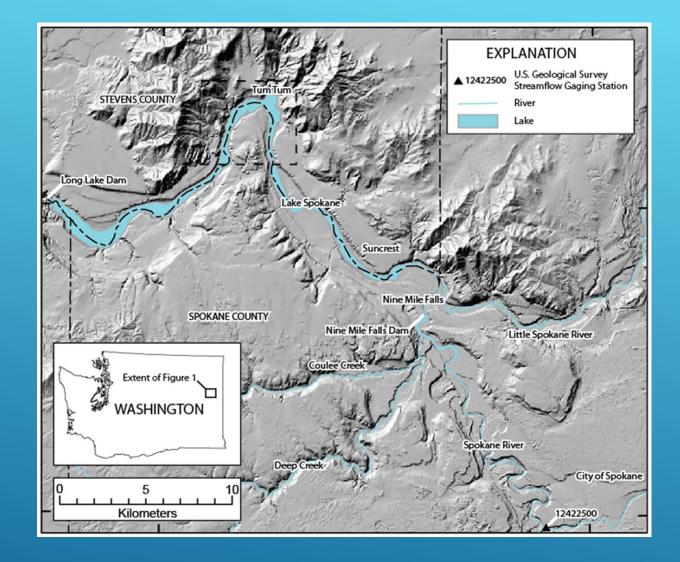
Jim Ross

All

**Model Questions** 

- a. 'Model Updates' Jim Ross mentioned there were model updates, eg., algae ratios. Can we get more information?
- b. New EAP studies how will new data from EAP studies be integrated into the model
- c. How will new real data collected in the Lake and in the River be integrated into the model
- d. Non-point source load allocations will the model be used to assess success in meeting non-point allocations?
- e. What data exist for non-point sources? Can those data be used to assess success?
- f. Calibration How will new data (see below) be incorporated and will there be a need to recalibrate?
  - Lake Bathymetry (1974 vs. 2009)
  - Phosphorus concentration in groundwater (USGS Study)
  - Phosphorus concentrations in 6 lake stations (data from 2010-2016)
  - Flows from Deep Creek
  - Bioavailable Phosphorus (model application)
  - Phosphorus concentration at the riverine compliance point and river locations
  - Flows specified in the new FERC license
  - Storm water and CSO input loads
  - New City data post-infrastructure improvements

### MONITORING WORKGROUP

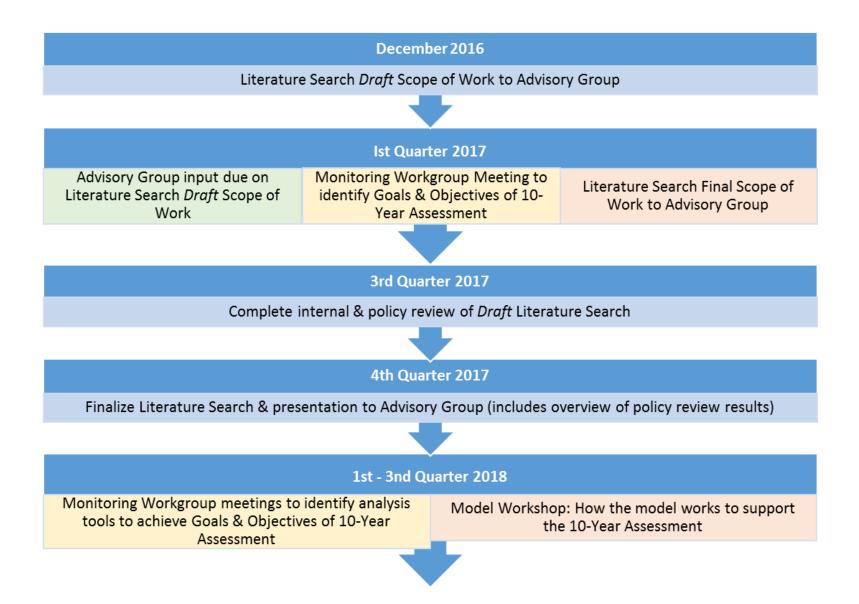


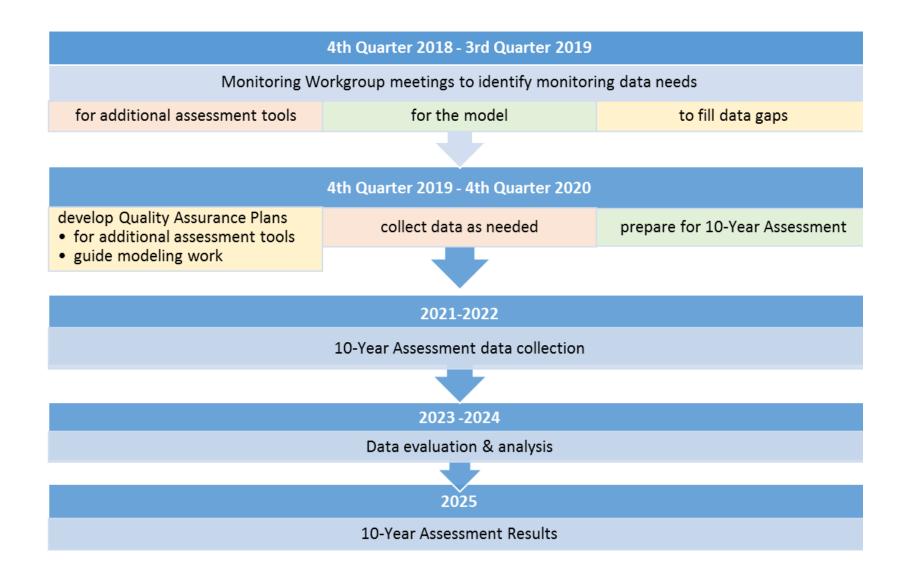
## USGS GROUNDWATER STUDY FUNDING/

### LITERATURE REVIEW DRAFT SCOPE OF WORK

### PATHWAY TOWARD THE 10-YEAR ASSESSMENT

#### DRAFT Work Plan Toward 10-Year Assessment



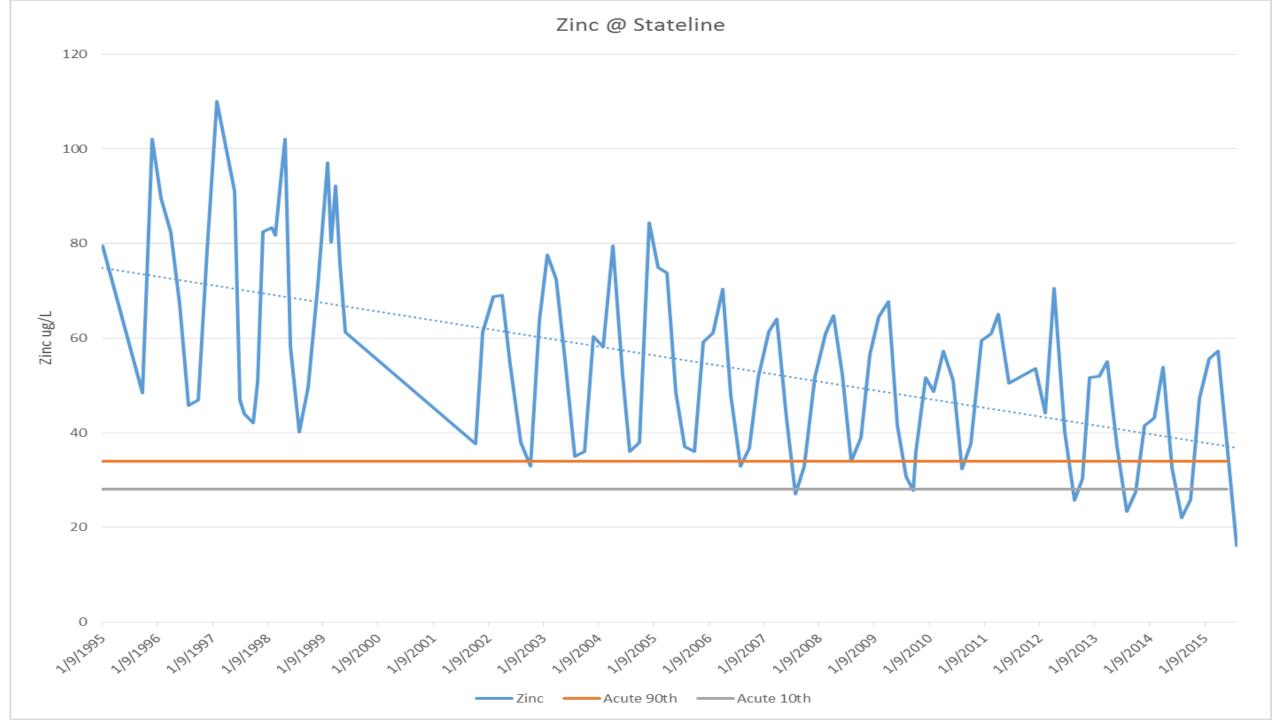


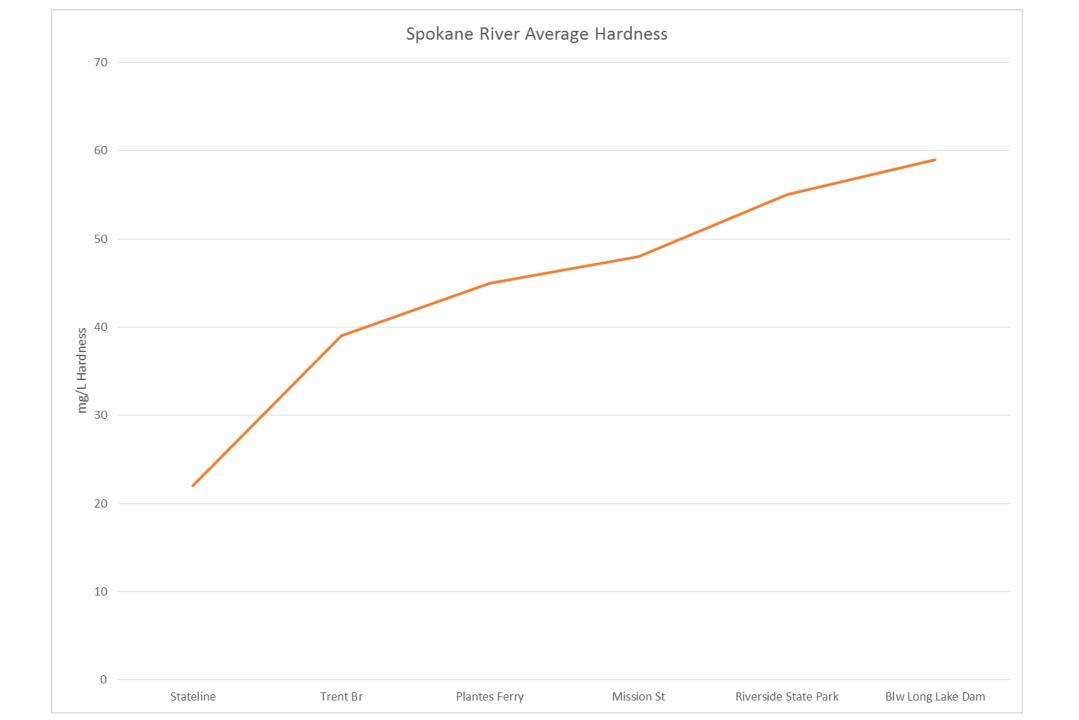
## ZINC INHIBITION

Zinc freshwater criteria for Washington

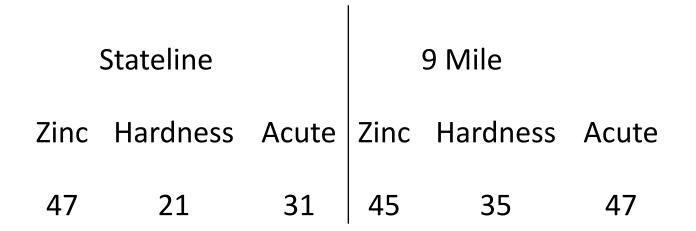
#### Acute (CMC) 0.978e 0.8473[ln(hardness)]+0.8604

Chronic (CCC) 0.986e 0.8473[ln(hardness)]+0.7614





#### June 2010 conditions



#### ACTION ITEMS & NEXT MEETING