

# Water Quality Standards Review

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Water Protection Forum

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# 2019 Water Quality Standards Triennial Review

- Public Notice of Intent to Initiate Triennial Review
- Opportunity to receive and refine topics and issues
- Department carry-over list from previous rulemakings
- Any revisions or changes required for the 2018 rulemaking, following approval



# 2019 Water Quality Standards Triennial Review

- New federal recommended Section 304(a) criteria
  - Human Health Protection (HHP)
- Risk factor assumptions in rule, 10 CSR 20-7.031(5)(M)
  - Carcinogenic Risk
  - Drinking Water Consumption
  - Fish/Shellfish Consumption



# 2019 Water Quality Standards Triennial Review

- New federal recommended Section 304(a) criteria
  - Recreational Uses (WBCR/SCR)
- 2012 Bacteria/Pathogen
  - Indicator Bacteria (E. coli and/or Enterococci)
  - Illness Rate
  - Magnitude (geometric mean, statistical threshold value)
- 2019 Algal Toxins (?)



# 2019 Water Quality Standards Triennial Review

- New federal recommended Section 304(a) criteria
  - Protection of Aquatic Life
- 2013 Ammonia Criteria
- Other criteria deferred –
  - Metals (Al, Cd, Fe, Pb, Se)
  - Cyanide and hydrogen sulfide
  - Sulfate and chloride





# 2019 Water Quality Standards Triennial Review

- Updated Use Designations
- Existing Use Changes
  - Industrial Uses
  - Drinking Water Supply
- Use Attainability Analysis (UAA)
  - Whole Body Contact Recreation
  - Secondary Contact Recreation



# 2019 Water Quality Standards Triennial Review



- Wetland Criteria
  - Narrative
  - Numeric

- Wetland Classification
- Wetland Use Designation



# 2019 Water Quality Standards Triennial Review



- Aquatic Life Protection Use Attainability Analysis Protocol
- Regional Dissolved Oxygen Criteria for SE Missouri

