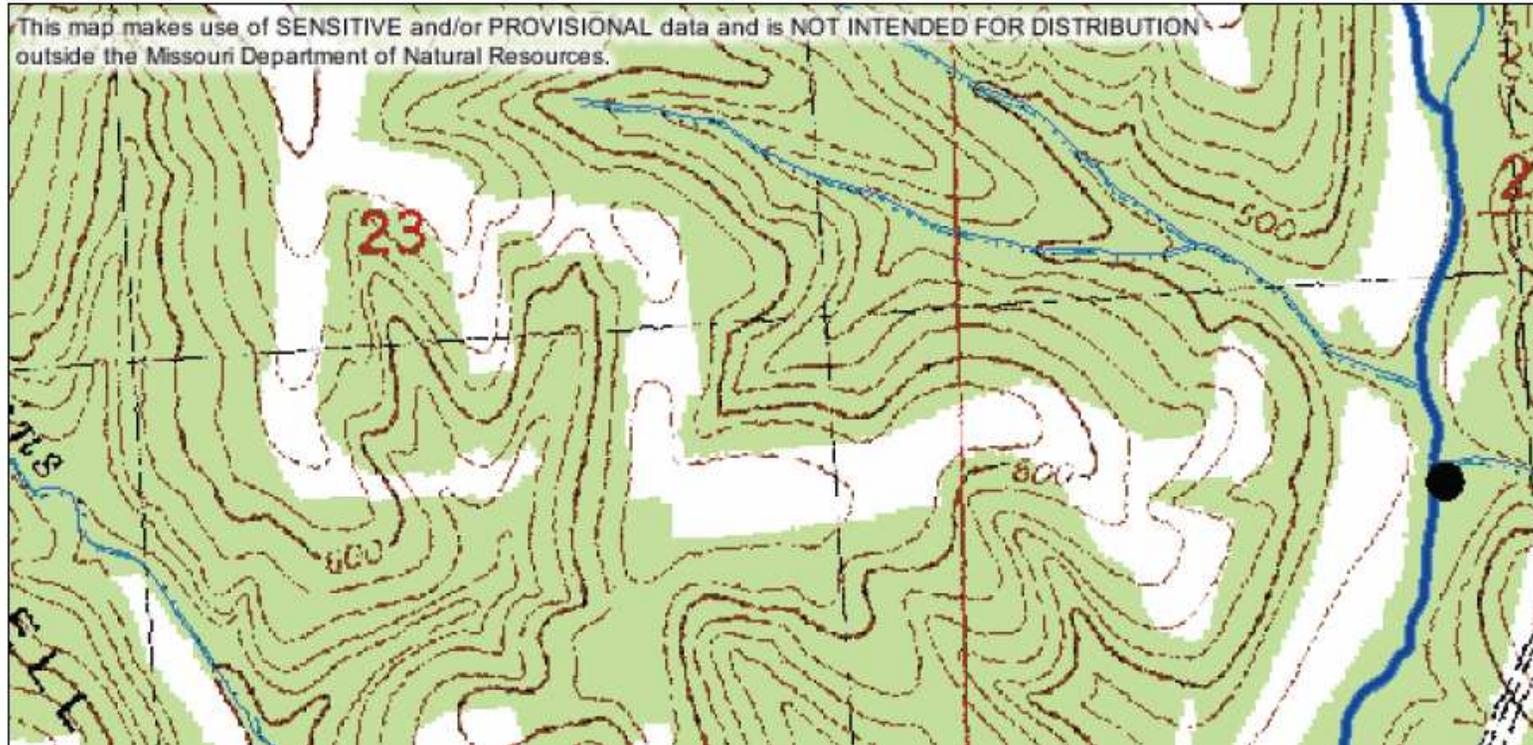


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- Existing 1 MGD Facility
- Proposing to expand facility to 2 MGD.
- What information do you need?

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Turkey River –

- Class P stream
- Tier 2
- Stream flow data
- Existing Water Quality data is available for all POCs
- Stream uses – Whole Body Contact, Aquatic Life, Drinking Water Supply

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- What are the Pollutants of Concern?

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- Pollutants of Concern are
 1. BOD/DO
 2. TSS
 3. Ammonia
 4. Bacteria
 5. Metals
 6. Nutrients (Phosphorus)
 7. Any others

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- What Antidegradation path would you take?

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1. Non-degrading
2. Minimal degradation
3. Significant degradation

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1. Non-degrading

- Mass balance equation shall loading from the facility does not increase. This facility is doubling the flow, so the effluent limits for the proposed facility would be $\frac{1}{2}$ of the existing effluent limits.

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2. Minimal degradation

- Less than 10% of the Facility Assimilative Capacity (FAC).
- Effluent limits vary with the FAC depending on the hydraulic flow ratio of the stream and outfall and the actual pollutant of concern concentrations of the receiving stream relative to the water quality standard.

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3. Significant Degradation

- Effluent limits are technology-based.
- Base case alternative must protect water quality and existing uses.
- Evaluation of non-degrading and less degrading alternatives with the intent of identifying a reliable process that can achieve greater pollution reduction.

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- The current effluent limits are water quality based.
- The proposed effluent limits are:

Use the Missouri Antidegradation Rule and Implementation Procedure as your guide to determine.