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## Wastewater Treatment [1]

Have a  
Sewer  
Question?

Brett Ward  
[2], Utility  
Operations  
Consultant  
| (865)  
974-9853



## Wastewater

Information and links for wastewater operators and other staff involved in wastewater operations

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### MTAS Resources

- [Aerobic Digestion \[3\]](#)
- [Ammonia Removal Troubleshooting \[4\]](#)
- [Chlorination for Filament Control Case Studies - Filaments and Clarifier Bulking \(large plant\) \[5\]](#)
- [Chlorination for Filament Control Case Studies - Filaments and Clarifier Bulking \(small plant\) \[6\]](#)
- [Have You Tried "Off-On" Aeration Yet? \(2004\) \[7\]](#)

- Influent Testing and Toxicity - Influent Contamination [8]
- Influent Testing and Toxicity - Specific Oxygen Uptake Rate (SOUR) Testing [9]
- Making Your Plant Denitrify (2004) [10]
- Operators Guidance for Biological Removal of Phosphorous in Municipal Water (2018) [11]
- Basic General Wastewater Study Guide (Wisconsin Dept. of Natural Resources) [12]
- Advanced Wastewater Study Guide (Wisconsin Dept. of Natural Resources) [13]

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### State Resources

- Microbiology of Biological Nutrient Removal (TDEC) [14]
- Nitrogen Removal Training Modules (New York State Department of Environmental Conservation) [15]
- TN Dept. of Environment and Conservation [16]
- TN Division of Water Resources [17]

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### Associations

- American Water Works Association (AWWA) [18]
- Tennessee Association of Utility Districts (TAUD) [19]
- Water Environment Federation (WEF) [20]

[Updated: August 20, 2018]

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### Links:

[1] <https://www.mtas.tennessee.edu/wastewater-treatment>

[2] <mailto:brett.ward@tennessee.edu>

[3] [https://www.mtas.tennessee.edu/sites/default/files/private/resource\\_link\\_files/aerobic\\_digestion.pdf](https://www.mtas.tennessee.edu/sites/default/files/private/resource_link_files/aerobic_digestion.pdf)

[4] [https://www.mtas.tennessee.edu/sites/default/files/private/resource\\_link\\_files/monteagle.pdf](https://www.mtas.tennessee.edu/sites/default/files/private/resource_link_files/monteagle.pdf)

[5] [https://www.mtas.tennessee.edu/sites/default/files/private/resource\\_link\\_files/filaments.pdf](https://www.mtas.tennessee.edu/sites/default/files/private/resource_link_files/filaments.pdf)

[6] [https://www.mtas.tennessee.edu/sites/default/files/private/resource\\_link\\_files/filaments2.pdf](https://www.mtas.tennessee.edu/sites/default/files/private/resource_link_files/filaments2.pdf)

[7] [https://www.mtas.tennessee.edu/sites/default/files/private/resource\\_link\\_files/off\\_on\\_aeration.pdf](https://www.mtas.tennessee.edu/sites/default/files/private/resource_link_files/off_on_aeration.pdf)

[8] [https://www.mtas.tennessee.edu/sites/default/files/private/resource\\_link\\_files/influent\\_contamination.ppt](https://www.mtas.tennessee.edu/sites/default/files/private/resource_link_files/influent_contamination.ppt)

[9] [https://www.mtas.tennessee.edu/sites/default/files/private/resource\\_link\\_files/sour\\_tests.doc](https://www.mtas.tennessee.edu/sites/default/files/private/resource_link_files/sour_tests.doc)

[10] [https://www.mtas.tennessee.edu/sites/default/files/private/resource\\_link\\_files/Nash\\_WEA.pdf](https://www.mtas.tennessee.edu/sites/default/files/private/resource_link_files/Nash_WEA.pdf)

[11] [https://www.mtas.tennessee.edu/sites/default/files/private/resource\\_link\\_files/Operator%20Guidance%20for%20Biological%20Removal%20of%20Phosphorus%20in%20Municipal%20Wastewater.pdf](https://www.mtas.tennessee.edu/sites/default/files/private/resource_link_files/Operator%20Guidance%20for%20Biological%20Removal%20of%20Phosphorus%20in%20Municipal%20Wastewater.pdf)

[12] <https://dnr.wi.gov/regulations/opcert/documents/StudyGuideBasicGeneral.pdf>

[13] <https://dnr.wi.gov/regulations/opcert/documents/StudyGuideAdvancedWastewater.pdf>

[14] [https://www.mtas.tennessee.edu/sites/default/files/private/resource\\_link\\_files/Microbiology.pdf](https://www.mtas.tennessee.edu/sites/default/files/private/resource_link_files/Microbiology.pdf)

[15] <http://www.dec.ny.gov/chemical/8710.html>

[16] <https://www.tn.gov/content/tn/environment.html>

[17] <https://www.tn.gov/environment/program-areas/wr-water-resources-home.html>

[18] <http://www.awwa.org/>

[19] <http://www.taud.org/>

[20] <http://www.wef.org/>

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