



# 2019 MOWRA Wastewater Training Short Course

## AGENDA

**April 1**  
**Gaylord, MI**  
**BJ's Restaurant**

- 8:30 am Registration
- 9:00 am Introductions & Goals
- 9:15 am Septic Tanks
- Function & purpose
  - Construction & water tightness
  - Installation
  - Tank access & safety issues
  - Maintenance of tanks & filters

**April 8**  
**Lapeer, MI**  
**Polar Palace**

- 9:45 am Wastewater Characteristics
- Hydraulic loading
  - Organic loading & constituents
  - High-strength wastewater
  - Treatment processes in wastewater

**April 9**  
**Lansing, MI**  
**LCC West**

- 10:30 am Break
- 10:45 am Importance of Soil
- Factors affecting water movement
  - Soil as treatment
  - Construction impacts on soil performance
- 11:30 am Pumps & Controls
- Proper installation for dosing tanks
  - Dosing methods
  - Flow measurement devices & maintenance
- 12:00 pm Lunch
- 12:45 pm Distribution Methods
- Gravity distribution options
  - Pressure distribution options
- 1:45 pm Break
- 2:00 pm Advanced Treatment Methods
- Fixed film treatment – mounds, media filters, sand-lined systems
  - Suspended growth treatment – ATUs, forced aeration, lagoons
  - Combination systems & multi-step processes
- 3:00 pm Standards of Practice
- Key elements in design, installation, and maintenance
- 3:15 pm Questions & Answers
- 3:30 pm Conclusion

### PROGRAM SPONSORS:



Milan Supply Company  
P.O. Box 309  
Mt. Pleasant, MI 48804-0309

**PROGRAM SPONSORS:**



**HEADWATER COMPANIES**

**REGISTRATION REQUEST:**

Company: \_\_\_\_\_ Contact: \_\_\_\_\_  
Address: \_\_\_\_\_  
City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
Phone: \_\_\_\_\_ Fax: \_\_\_\_\_ E-mail: \_\_\_\_\_

*\*Please register by phone or fax ASAP since seating is limited to 50 due to typical meeting room size.*

**April 1**

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990 N. Center Ave.  
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**April 8**

Polar Palace  
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Dan Milan  
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**April 9**

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