

**Training Sponsor:** Kentucky Rural Water Association  
**Session Title:** Continuing Education for Water Operators - Lebanon  
**Date:** Thursday, June 29, 2023  
**Location:** Lebanon Water Works Company, Lebanon, KY

**Learning Objectives:**

The objective of this session is to provide useful information to attendees to help them better perform their roles as water operators and enhance the operations at their facilities.

**Criteria for Training Credits:**

Operators will be granted credit for actual time attending the sessions. The maximum number of credit hours for this class will be **four (4) hours for water operators.**

**TRAINING SUMMARY/TIMED AGENDA**

**10:00 a.m.– 12:00 p.m.**

**Session 1:** Asset Management – A Walk Through ESRI Applications for Water Utilities

**Presenter:** Daren Thompson and Dustin Horn, Lebanon Water Works Company

**Core Content:** **A4 – Geographic Information Systems**

Asset Management isn't just a buzzword for drinking water utilities, it is a necessary function for utilities to manage their finances and operations successfully. This session will cover asset management for water utilities in today's world. Presenters will explain ESRI applications that can enhance GIS system usefulness for management of utility assets. Also included will be real world applications of GIS based asset management as well as its use for the Lead and Copper Rule Service Line Inventory requirements.

**12:00 p.m. – 12:30 p.m. Lunch Provided**

**12:30 p.m. – 2:30 p.m.**

**Session 2:** Water Treatment Plant Optimization – A Case Study on Effectiveness of Treatment Chemicals

**Presenter:** Mandy Spalding, Lebanon Water Works Company

**Core Content:** **F33 – Process Optimization & Upgrade/Process Control**

This session will cover various aspects of optimizing the water treatment process. A case study will be examined when the effectiveness of treatment chemicals was analyzed, and the treatment process improved. Topics will include monitoring raw water quality, Langelier Index Calculations, and monitoring electrical demands.

**Speaker Bios**

**Daren Thompson is the Operations & Management Superintendent for the Lebanon Water Works Company. Daren received a Master of Business Administration (MBA) and a Master of Public Management (MPM) from Sullivan University, and a Bachelor of Science in Construction Management from ITT Technical Institute. He is a 2017 graduate of the Kentucky Rural Water Association's Utility Management Institute program, and has earned his Utility Management Certification through National Rural Water Association's Water University. Daren holds certifications as a Class 4 Distribution Operator, a Class 4 Wastewater Collections Operator and a Class 2 Wastewater Treatment Operator.**

**Dustin Horn is the GIS Manager for Lebanon Water Works Company. Prior to the Lebanon Water, Dustin had 10 years of GIS experience; including 5 years of experience at the Green River Area Development District, 3 years at the Kentucky Infrastructure Authority (KIA), and 2 years at the Kentucky Rural Water Association (KRWA). He has a Bachelor's Degree in GIS from Western Kentucky University and has won multiple Special Achievement in GIS award's from Esri.**

**Mandy Spalding is the Water Treatment Plant Manager at Lebanon Water Works Company. Prior to Lebanon Water, Mandy had over 16 years of experience at Beckmar Lab, a DW/WW commercial lab, and 8.5 years of experience at Hardin County Water District No. 1 with 6.5 years on the water side and 2 years on the sewer side. Mandy earned a Master's Degree in Biology from the University of Louisville and a B.A. in Biology from Bellarmine College. She has a Class 4 Drinking Water Distribution, Drinking Water Treatment, Wastewater Collections, Wastewater Treatment Operator.**