GIS: Asset Management, Modelling and More

Course Objectives:

This course provides water utility professionals with a comprehensive understanding of how Geographic Information Systems (GIS) enhance asset management and operational efficiency. Participants will explore the fundamentals of GIS as applied to water utilities, including spatial data types, infrastructure visualization, and regulatory compliance. The course also introduces advanced workflows, such as Esri Utility Network implementation and hydraulic modeling integration, enabling participants to leverage GIS for lifecycle management, scenario planning, and data-driven decision-making. Interactive demonstrations and hands-on exercises will reinforce practical applications, ensuring participants gain actionable skills for managing water infrastructure effectively.

Agenda:

8:30 am – 10:00 am Registration, Breakfast and Vendors

10:00am – 11:00 am
GIS & Asset Management for Water Utilities
1. Welcome & Objectives
2. GIS Fundamentals for Water Utilities
3. Asset Management with GIS
4. Interactive Demo
5. Q&A

11:30 am – 12:30 pm Lunch and Vendor Show

12:30pm – 1:30 pm
Building a Digital Twin
1. Welcome & Objectives
2. Esri Utility N*etwork for Water Systems*
3. *Hydraulic Modeling Integration*
4. *Interactive Demo*
5. Q&A

Instructors:

Theresa Labuda

Theresa is a certified Esri Utility Network Specialist (2024) with an M.S. in Environmental Science Management from Duquesne University. She is a detail-oriented professional with extensive experience in both industry and regulatory environments. Theresa specializes in creating and maintaining Utility Networks for water and electric utilities, enhancing workflows, and empowering utilities to better manage and visualize their systems. Additionally, she is ArcGIS Pro certified and has successfully trained GIS professionals across the U.S. in transitioning from ArcMap to ArcGIS Pro.

Kayley Foster, EIT

Kayley Foster, EIT is a Senior Engineer Associate in the Water/Wastewater Department at Larson Design Group, where she supports municipalities and utilities in developing efficient and reliable infrastructure solutions. She is graduate of Point Park University with a B.S. in Civil Engineering Technology. Kayley has experience in water and wastewater planning, design, and permitting. She specializes in hydraulic modeling, using advanced analytical tools to deliver practical solutions to increase system reliability and help communities plan for future growth.

Matthew Kalcich

Matt Kalcich is a seasoned geospatial professional with over 20 years of experience in GIS technologies and consulting, specializing in solutions for water and wastewater utilities. As a Project Manager and Senior GIS Analyst at Larson Design Group, he leads Utility Network implementation projects that modernize asset management, support hydraulic modeling, and enable digital twin development. His expertise lies in translating complex spatial data into operational intelligence, helping utilities optimize infrastructure planning, regulatory compliance, and system performance.

Date and Location:
September 18, 2025 – Pompton Lakes Elks 15 Perrin Avenue Pompton Lakes NJ 07442

Accreditation:
Certified for 2.0 Training Contact Hours for NJ-Licensed Water Operators. TCH Course Number: 04-082504-10
Certified for 2.0 Hours (Technical) for Certified Public Works Managers. CPWM Number: DLGS-NJWA-294

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Registration is required and available at www.njwater.org.

Please plan to arrive between 8:30-9:00 AM.

THE NORTH JERSEY WATER CONFERENCE NJWC
& THE NEW JERSEY WATER ASSOCIATION

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