

**GIS Programs for Water and Wastewater Systems: Let’s Start at the Very Beginning**  
**Presented by the New Jersey Water Association and Maser Consulting**

**Description:** This goal of this training seminar is to provide attendees with an overview of Geographic Information Systems (GIS), Global Navigational Satellite Systems (GNSS) and how they can be used to improve daily operations at your utility. Recent improvements in technology allows GIS to be consumed over the internet through a web GIS and extended to the field through mobile GIS; giving office and field staff access to the same data in real-time. This course will also discuss the GIS/GNSS requirements within the *Water Quality Accountability Act (WQAA)* and provide attendees with information necessary to comply with WQAA. *The goal of this course is to allow attendees to come away with the information necessary to decide how to proceed with starting (or jumpstarting) your GIS program.*

**Agenda:**

8:00 – 8:30	On-Site Sign-in
8:30 – 9:15	GIS Overview <ul style="list-style-type: none"><li>▪ What is GIS? What is GNSS? Why should I care?</li><li>▪ GIS for water/wastewater</li><li>▪ Demonstrations &amp; Case Studies</li></ul>
9:15 – 10:00	GIS Implementation Methodology <ul style="list-style-type: none"><li>▪ Data Gathering/Needs Assessment</li><li>▪ Staffing (Internal, consultant, shared service, or hybrid)</li><li>▪ Software</li><li>▪ Hardware (Desktop, Server, mobile devices)</li><li>▪ Processes and Procedures</li><li>▪ GIS Data Development &amp; Storage (local or cloud, security)</li><li>▪ Implementation (Training program, etc.)</li><li>▪ Operations and Maintenance</li></ul>
10:00 – 10:15	Break
10:15 – 10:30	GNSS/GPS Overview
10:30 – 11:00	Water Quality Accountability Act- GIS Components <ul style="list-style-type: none"><li>▪ Hydrants &amp; valves</li><li>▪ GPS/GNSS Data</li><li>▪ Asset Management Plan</li><li>▪ Cyber Security</li></ul>
11:00 – 11:15	Break
11:15 – 12:00	GIS based Asset Management
	Dismissal

**Speaker Bios:**

**Suzanne M. Zitzman, GISP, Principal Associate, Lehigh Valley, PA** - Ms. Zitzman is experienced in all aspects of data collection and data modeling using geospatial technology. Her experience in understanding client business processes enables her team to implement cost effective asset and facility management solutions tracking work orders, asset conditions, and capital project planning. In addition, Ms. Zitzman has extensive knowledge in traditional land base mapping providing clients with cadastral, environmental and, infrastructure mapping. She received her Associates Degree in Applied Science from Brookdale Community College, Architectural Studies NJIT, and Geomatics Certification from Rutgers University.

**Michael Kolody, Project Manager, Red Bank, NJ** - Mr. Kolody is a Project Manager and Geographic Information Systems (GIS) specialist with over 13 years of experience in GIS project management, spatial analysis, cartography, mapping grade Global Positioning Systems (GPS) surveying, and analytical data management. He employs an innovative and resourceful approach to execute projects successfully, manage diverse teams, and communicate technical details to non-technical stakeholders. He has provided GIS and data management services to public and private sector clients ranging from local municipalities and utility authorities to large petroleum and chemical manufacturing clients, utilizing GIS and GPS to assist these clients with understanding, maintaining, and analyzing their spatial data. Mr. Kolody received his B.A. in Geography with a Major in GIS Major at West Virginia University and attended Linköping University, Sweden with a concentration in GIS.

**Accreditation:**

3.0 Training Contact Hours for NJ-Licensed Water and Wastewater Operators. TCH Course# 04-111704-30  
3.0 Hours toward license renewal for NJ Certified Public Works Managers (Technical). Course# DLGS-NJWA-137

**Dates and Locations:**

**June 13, 2018 – Hightstown Fire Dep’t., 148 N. Main Street, Hightstown (Mercer County)**  
**June 28, 2018 – Monroe Township Utilities, 143 Union Valley Road, Monroe (Middlesex County)**

**Pre-registration at [www.njwater.org](http://www.njwater.org) is required.**

**New Jersey Water Association**  
**505 U.S. Highway 9**  
**Lanoka Harbor, NJ, 08734**