Virtual Training:
Asset Inventory and Mapping for Small Water Systems

Presented by
The Environmental Finance Center Network

November 12, 2020

Virtual Training Description:

Asset Management is a process that allows a water or wastewater system to better manage its assets and improve the workday for its employees. It helps improve efficiency and reduce unplanned, reactionary activities in favor of more planned, proactive work. Hence, asset management is a strategic way of thinking about assets, an iterative process that involves five core concepts.

As we move beyond the basics of asset management, we will briefly revisit the overall thought-process of asset management during the first part of this training, focusing more specifically on more advanced concepts related to asset inventory and mapping.

The second portion of the training will focus on specifics of data gathering for the asset inventory. We will discuss: the types of data that can and should be collected; the readily available data collection apps; creating a basic data collection form within an application; avoiding common data collection mistakes; and building data collection into daily system activity.

In the third session, we will cover the basics of a water system map. We will discuss using locational data collected for your water system assets to create a map. We will explore a variety of mapping platforms, including ESRI's ArcGIS Pro, and free software programs such as QGIS as well as Google Earth to create useful GIS (geographic information system) maps of your water system. We will focus on the resources available and how to best utilize collected system data.

Training Objectives:

- Obtain a solid understanding of what asset management is and how it benefits water systems
- Identify the 5 core components of asset management
- Develop basic skills to build a digital data collection application
- Understanding how uniform data collection improves your inventory and analysis
- Discuss techniques, tools, and examples for developing asset inventories and building maps
- Gain a general understanding of the usage of collected data in water system mapping across a variety of GIS platforms such as ESRI's ArcGIS Pro, QGIS, and Google Earth
- Identify and learn to leverage the GIS technologies available to your system