



## Asset Management for Oregon Wastewater Systems

*Presented by: The Environmental Finance Center Network*

June 11, 2025 | 1:00 to 4:15 pm Pacific Time

**Registration Link:** <https://unm.zoom.us/meeting/register/-Hc93QM8TrqMBldZjKekQ>

### **Description:**

With limited revenues, aging infrastructure, and regulatory obligations to meet, a comprehensive approach to managing your wastewater system is vital. What information will be useful to you? How should you track your system assets? How does your aging infrastructure impact your service and expenses? Which asset(s) should you replace given limited funds and how should you prioritize replacement? How do you know how much money you might need? Asset management provides a framework to help you solve these problems, and more.

This training begins by covering Asset Management's core components and the overall Asset Management thought-process, before focusing more specifically on the practical application of asset management concepts for data informed decision making using real-world examples.

### **Training Objectives:**

- Understanding how the practical implementation of asset management core components benefits wastewater systems dealing with aging infrastructure
- Understand how data can be used to define and track a utility's mission and goals
- Discuss techniques, tools, and examples for developing asset inventories and what information should be included in them for robust decision making
- Know how to develop condition assessment scales and calculate asset criticality
- Understand how to effectively manage assets by tracking associated costs and activities

### **Timed Agenda:**

1:00pm – 1:15pm	Setting the Stage, Utility Challenges, Aging Infrastructure
1:15pm – 1:30pm	Asset Management Overview: From Core Concepts to Expanding the Use of Asset Management for Asking and Answering Questions

1:30pm – 2:00pm	Level of Service - Using Data to Define, Track, and Change Utility Missions & Goals
2:00pm – 2:30pm	Level of Service – Goal Prioritization Workshop
2:30pm – 2:45pm	<i>Break</i>
2:45pm – 3:15pm	The Current State of Your Assets – Inventory & Data Collection
3:15pm – 3:45pm	Criticality - Prioritizing Actions Using Probability and Consequence of Failure
3:45pm – 4:00pm	Life Cycle Costing – Effectively Managing Your Assets
4:00pm – 4:15pm	Putting it all together – Thoughts to Action, Overview of Available Resources, Q&A

**Instructor:**

**James Markham, J.D., M.S.C.E.**, has been with the Southwest Environmental Finance Center (SWEFC) since 2015. He holds degrees in Political Science (B.A.), Law (J.D.), and Environmental Engineering (M.S.C.E.), with research focused on water loss in distribution systems.

A member of the California Bar since 1996, James transitioned from business operations to engineering and now leads curriculum design at SWEFC. He specializes in asset management—particularly asset inventories and risk analysis—and water loss auditing using AWWA’s Water Audit Software and M36 Manual.

James provides in-person training and technical assistance to water systems of all sizes, focusing on water auditing, data collection, GIS analysis, and the use of break data to inform water loss control efforts. He has supported small systems under EPA WaterCARE and Small Systems programs, as well as through contracts with the New Mexico Environment Department. He also developed a tool to help utilities determine data validity grades for water audits and assists with financial, operational, and GIS-based system management.

**Method of Attendance Tracking:** Attendance is monitored through a Zoom attendance report and live participation through poll responses.