

This Training Session Will increase your knowledge on identifying leaks on water mains or force mains for sewer. You will learn the theory of leak detection, how to identify a leak, and how to utilize available equipment for locating lines and leaks.

By attending, you will also learn how to conduct a water audit of your system. The audit will assist you in determining water loss, cost of water production, cross connections, and employing water conservation methods.

We will touch on some of the general aspects of conventional water rate setting methods and give you guidance on where to find more detailed information.

NOTE:

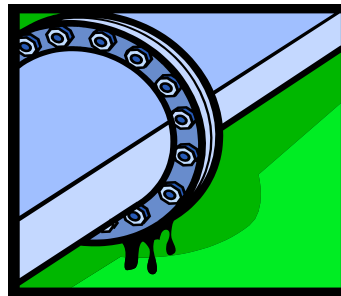
Please bring a high visibility vest if you have one available, as we will be conducting part of the class out in the distribution system and we may have to be in the streets at times.



Pre-Registration

Please e-mail MRWS “ASAP”
at: MRWS@Bresnan.net
w/Your Name & System You are
Attending from.

Session is FREE of Charge!



This training session is designed for “Awareness Training” and is not intended to be your only source for information!

Montana Rural Water Systems

Presents

2018 Leak Detection, Water Audits, And Water Loss Management Workshop

Speakers Include:

Tanner Marsh
American Leak Detection

Nick Clos
MRWS Circuit Rider

Julie Allen
MRWS Water Training Specialist

CEC's: 0.600 Dual

No Registration Fee !!

Date & Location:

Hamilton, MT
Wednesday
April 4th, 2018

@

Hamilton City Hall
Community Room (2nd Floor)
223 South 2nd Street
Hamilton, MT



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For additional information contact:
Julie Allen at (406) 438-2070



Morning Session

8:30 AM Registration

9:00 AM - Water Loss Management

- ⇒ Controlling Water Loss
- ⇒ Water Conservation
- ⇒ Reducing Water Costs

10:00 AM - Water Audits

- ⇒ Water Audits—Why, How, Where

⇒ Reducing Water Loss/Costs

⇒ Setting Water Rates—Why, How

11:00 AM - Cross Connection/Backflow

- ⇒ Identifying Cross Connections
- ⇒ Types of Devices



(12:00 - 1:00 PM - Lunch on Your Own)

Afternoon Session (1:00—4:00 pm)

Introduction and questions:

- ◆ What experience does your Utility have in conservation audits & utility locating
- ◆ Structured plan/approach to surface and repair

General discussion about leak behavior

- ◆ Not all leaks surface
- ◆ Various challenges with different soils and surfaces

New technology in utility locating:

- ◆ **Importance of Maps**
 - ◆ GPS
 - ◆ Acoustic microphones
 - ◆ Ground penetrating radar machines and handheld tools
- ◆ **Correlators**
 - ◆ The good and the bad
 - ◆ Transmitters and receivers

Hands-on training with utility locating instruments, acoustic microphones, Digital Correlator, and infrared cameras Trace as a tool.

⇒ **Training Ends @ 4:00 pm**

About Our Speakers:

Tanner Marsh joined the ALD Team in 2016 when the company added technicians, equipment and trucks to better serve our territory in addition to acquiring the state of Montana franchise. Tanner graduated from the University of Montana with his Bachelor's Degree in Archaeology.

The Inland Northwest and Montana office provides leak detection services for municipal, commercial and residential applications. We have been here since 1993 with our most senior employees on board since 2003. The franchise was acquired by the current owner in 2015.

Nick Clos has been a Circuit Rider with Montana Rural Water Systems (MRWS) since 1993 and has been in the water/wastewater industry since 1980. He has worked with hundreds of communities providing technical assistance. Nick has vast experience with chlorination systems, leak detection, water audits, and rate structures, and VA/ERP's, just to name a few.

NOTE: Due to the field portion of the training, morning & afternoon sessions may be swapped depending on weather conditions.

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