

Small Water System Operations

February 7, 2012

Course Instructors:

Joe Meek, DEQ

Joe Meek graduated from the University of Montana (Missoula) with a Bachelor's in biology w/Honors. He became a Registered Sanitarian in 1985 and worked in Glacier County and Park County Montana. He began working specifically on water issues as an enforcement specialist for the Montana Department of Environmental Quality (DEQ) in 1992 and joined DEQ's ground water program in 1994. Joe continues to work for DEQ on wellhead and source water protection. He developed a special interest in the relationship between ground water quality, wells, and septic systems while working as a Registered Sanitarian and has continued to develop that interest through his work at DEQ. He has completed numerous short-courses relating to ground water flow, ground water modeling, and contaminant transport and implemented several ground water investigations in Montana.



Montana Environmental Training Center
MSU-Northern
P.O. Box 7751
Havre, MT 59501

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The Montana Environmental
Training Center

Presents

Small Water System Operations February 7, 2012 Helena



Attention: Class 3, 4, and 5 Water Operators, Well Drillers and Realtors. This class is designed specifically for you.



Small Water System Operations

Helena

February 7, 2012

WHERE: UM - Helena College of Technology
1115 North Roberts.

COURSE FEE: \$50 **CECs:** 0.450

WHAT: An evening training session designed for small system operators certified as class 3, 4, or 5 water operators and transient system owners. This 4 hour evening session will emphasize source water protection, well construction, potential issues with septic systems, sampling, monitoring and reporting. Realtors and well drillers will also find this information useful.

AGENDA: Tuesday Evening, February 7, 2012

5:00 - 5:15 Registration

5:15 - 6:45 Well Systems - Construction, Operation & Maintenance
- Aquifers, Groundwater Flow, Water Levels, Site Selection,
- Public Water System Plan/Spec Review, Drilling Methods & Techniques,
- Well Construction, Water System - design, construction and layout, Pumps,
- Well Logs, Water Chemistry, Water Treatment, Water Rights and
- Well Maintenance

6:45 - 8:15 Septic Systems - Construction, Operation & Maintenance
- History of Sewage Disposal,
- Public On-site Wastewater System Plan/Spec Review,
- Site Selection, Separation between wells and septic systems,
- Septic Systems as Groundwater Recharge,
- Septic System Functional Elements,
- Maintenance - pumping frequency, component inspection,
- System layout & design,
- Types of Septic Systems - pros & cons of each,
- Septic Tanks - pumping vs not pumping, tank additives & hydrological overload

8:15 - 9:45 Sampling and Monitoring
- Bacti Samples
- Lead & Copper
- Nitrates/Nitrites
- And other pertinent information

(One 15 Minute Break)

REGISTRATION FORM

REGISTRATION: Registration is **necessary!**
Please complete this form and return it with your payment of **\$50.00**.

A cancelled registration after **February 1, 2012** will be refunded at 50%. You may call Barb Coffman at 265-3763 (office) or 781-2298 (cell phone) for more information.

Send Payment to:
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P. O. Box 7751
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