

Discharges From Breweries and Similar Industries To Your WWTF

Date: April 7, 2017

Time: 9:00am-12:15pm

Location: Montpelier Public Works Garage, 783 Dog River Road, Montpelier, VT (please park across the street in the recreation field parking lot)

Credit: 3 TCH



Non-member cost: \$30

Member cost: \$24

Instructor: Randy Bean (RAB Consulting)

Proctor: Wayne Graham (VRWA)

The discharge of high strength wastewater from breweries and similar industries can have significant impacts on a municipal WWTF. This class discusses the pollutants associated with these discharges, potential impacts on your WWTF, ways to reduce the discharge of pollutants, and what a municipality can do to oversee and protect itself from the impacts of these discharges. This is a great class from a former long time staff member of VT ANR's Wastewater Management Program and will provide you the knowledge to assess and limit the impact of these industries before problems occur at your WWTF.

Small Systems Class 2 Water Operator Certification Course

Dates & Locations (choose one):

- April 12, 13, 19 & 20, 9:00am-2:00pm, Montpelier Public Works Garage, 783 Dog River Road, Montpelier, VT (please park across the street in the recreation field parking lot)
- April 12, 13, 19 & 20, 9:00am-2:00pm, Putney Fire Department, 21 Carl Snyder Drive, Putney, VT



Credit: 18 TCH

Non-member cost: \$180 (plus \$30 for textbook)

Member cost: \$144 (plus \$30 for textbook)

Instructors: Matt Guerino (Montpelier), Paul Sestito (Putney)

This course is designed for those who will be taking the VT Class 2 Water Operator Certification Exam. The eighteen hour class provides a survey of aspects of operating a small public water system using groundwater as a source. The Safe Drinking Water Act (SDWA) requirements, sampling water sources, well construction, source protection, storage, distribution, hydraulics, cross-connections, safety, disinfection, treatment, and water math will be covered. This class is not designed for the operators of Transient Systems (TNCs) ***BRING A LUNCH***

Lead and Copper Rule Overview

Dates & Locations (choose one):

- April 14, 9:00am-12:30pm, Montpelier Public Works Garage, 783 Dog River Road, Montpelier, VT (please park across the street in the recreation field parking lot)
- June 7, 9:00am-12:30pm, Emory Hebbard State Office Building—State Conference Room, 100 Main Street, Newport, VT
- June 22, 9:00am-12:30pm, Putney Fire Department, 21 Carl Snyder Drive, Putney, VT

Credit: 3 TCH



Non-member cost: \$30

Member cost: \$24

Instructors: Ben Montross & Amy Galford (DWGWP)

Proctor: Matt Guerino (VRWA)

This course is designed for operators and water system administrators who want to understand the basics of the Lead and Copper Rule and how it applies to their systems. Topics to be covered include sources of lead and copper; monitoring schedules; sampling plans and sampling procedures; how results are used in compliance determinations, including calculating the 90th percentile result; sending results to testing participants; public education requirements; timelines under the rule including installation of treatment; and a general overview of corrosion control requirements.

Wastewater Phosphorus Removal Options

Date: April 14, 2017

Time: 8:30am-3:30pm

Location: Burlington Main WWTF, 53 Lavalley Lane, Burlington, VT

Credit: 6 TCH

Non-member cost: \$60



Member cost: \$48

Instructors: Bryan Tanner (Holland Company), Wayne Elliot (Aldrich and Elliot), Eamon Twohig (Vermont DEC) and Paul Olander

Proctor: Wayne Graham (VRWA)

This in depth seminar will cover the Lake Champlain TMDL and potential future limit changes. Chemical phosphorus removal and optimization will be covered in detail as well as advanced removal options.

Basic Water and Wastewater Math Review

Dates & Locations (choose one):

- April 21, 9:00am-12:30pm, Putney Fire Department, 21 Carl Snyder Drive, Putney, VT
- April 26, 9:00am-12:30pm, VRWA Office, 20 Susie Wilson Road, Essex Jct, VT

Credit: 3 TCH



Non-member cost: \$30



Member cost: \$24

Instructor: Matthew Guerino (VRWA)

This course focuses on practical math skills for operators. Math topics covered will include fractions, decimals, percents, equations, and unit conversions. In addition formulas for area, volume, pressure, flow, velocity, chemical dosage, and other waterworks topics will be covered. This training is applicable for new or existing operators and for those planning on taking certification exams.

Exam Preparation Course (Class 3/4/D)

Date: April 27, 2017

Time: 9:00am-1:30pm

Location: Montpelier Public Works Garage, 783 Dog River Road, Montpelier, VT (please park across the street in the recreation field parking lot)

Credit: 4 TCH



Non-member cost: \$40

Member cost: \$32

Instructor: Matt Guerino (VRWA)

This course is designed as a short review for water operators prior to the Exam. The course will review Class 3, 4 and D water system operations. We will review testing theory, math questions, exam questions, and general water system operator questions. There will be a group exam taken during the course.

Small Systems Exam Preparation Course

Date: April 28, 2017

Time: 9:00am-1:30pm

Location: Hartford Municipal Building, 171 Bridge Street, White River Jct, VT

Credit: 4 TCH



Non-member cost: \$40

Member cost: \$32

Instructor: Paul Sestito (VRWA)

This course is designed as a short review for water operators prior to the Exam. The course will review Class 2 water system operations. We will review testing theory, math questions, exam questions, and general water system operator questions. There will be a group exam taken during the course.

Management of Onsite/Decentralized Wastewater Treatment Systems

Date: May 16, 2017

Time: 9:00am-3:30pm

Location: Sleeper Room, Gatehouse Lodge, Sugarbush Resort, Lincoln Peak Base Area, 102 Forest Drive, Warren, VT

Credit: 6 TCH

Non-member cost: \$60



Member cost: \$48

Instructors: Wayne Graham & Paul Sestito (VRWA), Kevin Camara (Green Mountain Engineering), Chris Rottler (State of VT) and Gene Martin (Sugarbush)

This course will provide an overview of onsite/decentralized wastewater treatment systems including a presentation on the Sugarbush Resort wastewater treatment system, an overview and tour of the Warren, VT School and Brooks Field wastewater treatment systems, a discussion of asset management tools, tips, and techniques for wastewater treatment systems, and funding opportunities available. The course is designed to include material applicable to licensed designers, wastewater operators, owners and managers of wastewater systems.

COURSE NOTES:

- Afternoon portion of class (tour of ww systems) will be held outdoors, please dress appropriately.
- Please try to carpool when travelling to/from classroom to on-site tour.
- Bring a lunch!

Understanding Your Motor Control Panels

Dates & Locations (choose one):

- May 18, 9:00am-3:00pm, Putney Fire Department, 21 Carl Snyder Drive, Putney, VT
- June 8, 9:00am-3:00pm, Burlington Main WWTF, 53 Lavalley Lane, Burlington, VT

Credit: 5 TCH



Non-member cost: \$50



Member cost: \$40

Instructor: John Benham (Pump Systems, Inc.)

Proctor: Wayne Graham (VRWA)

Water and wastewater operators, while not electricians, need to understand these critical components and possess the skills to troubleshoot problems. Also a great review class for exams as electrical theory, formulas and safety will be covered in detail. This is a hands on class, work stations with actual control panels will be used. Please bring your voltage/amp meter if you have one.

TNC Operations

Dates & Locations (choose one):

- May 31, 9:00am-12:30pm, Emory Hebbard State Office Building—State Conference Room, 100 Main Street, Newport, VT
- June 2, 9:00am-12:30pm, West Rutland Municipal Building, 35 Marble Street, West Rutland, VT

Credit: 3 TCH



Non-member cost: \$30

Member cost: \$24

Instructors: Meredith Simard & Bridget Phillips (DWGWP) and Matt Guerino (VRWA)

This course is designed for Transient Non-Community (TNC) Water System Operators. No matter what your experience as a water system operator, this course will help you better manage your water system. For Class 1B operators, this course will fulfill the requirement to obtain 3 continuing education credits prior to renewal of your certification. The course will review the following topics: disinfecting your water system (UV and chlorine); sampling procedure and sampling schedules; sanitary survey review; common water system deficiencies; rules and regulations (current and upcoming rules); discussion of seasonal operations; basic site investigations.

Your Brewery—Understanding & Managing Its Process Wastewater Discharge

Date: June 7, 2017

Time: 9:00am-12:15pm

Location: Montpelier Public Works Garage, 783 Dog River Road, Montpelier, VT

Credit: 3 TCH

Non-member cost: \$30



Member cost: \$24

Instructor: Randy Bean (RAB Consulting)

Proctor: Wayne Graham (VRWA)

This class is specifically designed for brewery operators, managers, and owners. The pollutants associated with the discharges from breweries will be covered along with impacts on wastewater treatment facilities and sub-surface disposal systems. Methods to reduce and control the environmental impacts of these discharges will be covered in detail. This is a great class from a former long time staff member of VT ANR's Wastewater Management Program and will provide you with the knowledge to successfully operate your brewery.

Maintaining Wastewater Capacity and Operations by Controlling High Strength Loadings on a Management Level

Date: June 13, 2017

Time: 9:00am-12:15pm

Location: Burlington Main WWTF, 53 Lavalley Lane, Burlington, VT

Credit: 3 TCH

Non-member cost: \$30



Member cost: \$24

Instructor: Randy Bean (RAB Consulting)

Proctor: Wayne Graham (VRWA)

This class for municipal managers concentrates on maintaining sustainability of your wastewater treatment facility by teaching you how to control loadings of high strength wastes. Discharges from high strength waste industries to your WWTF can have significant impacts on its ability to properly treat wastewater, control operational costs, and limit the ability for your community to grow. This class discusses the pollutants associated with these discharges, their impacts on your WWTF, how to work with these industries to reduce their discharges, and steps a municipality can take to protect itself. This class is from a former long time staff member of VT ANR's Wastewater Management Program.

Water and Wastewater Infrastructure Blueprint Reading

Dates & Locations (choose one):

- June 14, 8:30am-3:30pm, Lyndonville Public Safety Building, 316 Main Street, Lyndonville, VT
- June 15, 8:30am-3:30pm, Montpelier Public Works Garage, 783 Dog River Road, Montpelier, VT

Credit: 6 TCH



Non-member cost: \$80



Member cost: \$64

Instructor: Jim Hager (Blueprint Reading Seminars)

Proctor: Wayne Graham (VRWA)

This class is designed to help participants develop an understanding of how working drawings are organized, and how to utilize the information contained within them. Participants will receive instruction on reading and reviewing Record Issue drawings used to construct water and wastewater infrastructure systems. Attendees will become familiar with the design and construction of civil, mechanical and some electrical systems through the use of graphics. Each attendee will receive a reference booklet that works hand in hand with seven (7) blueprints that will be supplied.

Hands-On Mechanical Seals and their Application

Dates & Locations (choose one):

- June 22, 9:00am-1:30pm, West Rutland Municipal Building, 35 Marble Street, West Rutland, VT
- June 23, 9:00am-1:30pm, Vermont Rural Water Association, 20 Susie Wilson Road, Essex Jct, VT

Credit: 4 TCH



Non-member cost: \$40

Member cost: \$32



Instructor: Ed Czeremcha (A.W. Chesterton)

Proctor: Matt Guerino (VRWA)

This class will cover the following topics: · How pump reliability affects Mechanical Seal performance · The importance of Mechanical Seals · Basic Principles of Mechanical Seals and how they operate in rotating equipment · The purpose and function of Mechanical Seals · Mechanical Seal parts, types, configurations, and materials of construction · The importance of Environmental Controls and how they directly relate to seal performance · Troubleshooting Mechanical Seal failures · Installation/"Hands-on"

Informational Network For Local Operators (INFLO) Phosphorus Roundtable

Date: June 20, 2017

Time: 9:00am-12:15pm

Location: Burlington Main WWTF, 53

Lavalley Lane, Burlington, VT

Credit: 3 TCH



Non-member cost: \$30

Member cost: \$24

Instructors: Vermont Wastewater Specialists and Managers

Proctor: Wayne Graham (VRWA)

This INFLO meeting will be an open forum roundtable discussion on phosphorus removal success stories and failures. Who better to learn from than the wastewater specialists and managers in the field. All types of wastewater treatment process will be represented as we discuss in detail phosphorus removal options. We will also be touring the Burlington Main Facility.

Basics of Motors, Drives and Energy Efficiency

Dates & Locations (choose one):

- June 20, 9:00am-1:30pm, Vermont Rural Water Association, 20 Susie Wilson Road, Essex Jct, VT
- June 21, 9:00am-1:30pm, Rutland Recreation & Parks Department, 16 North Street Extension, Rutland, VT

Credit: 4 TCH

Non-member cost: \$40



Member cost: \$32



Instructor: Paul Russell (Russell Resources)

Proctor: Matt Guerino (VRWA)

This course covers the basic operational parameters of electric motors and variable frequency drives (VFDs). Emphasis will be placed on the benefits of energy-efficient motors and VFDs. Basic motor concepts and characteristics will be presented. In addition, attendees will perform simple calculations and take part in basic VFD programming exercises. This seminar is designed for both water and wastewater operators.

Reminder To Operators From Training Specialist Matt Guerino

Remember, Class 2 and Class 4 renew this year. DWGWP would like applications and completed TCHs into the Division by May 31 (per the VT Water Supply Rule). All Class 2 & 4 certifications end date is June 30, 2017! See you all in classes.

April 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat
						1
2	3	4	5	6	7 Discharges From Breweries	8
9	10	11	12 Small System Class 2	13 Small System Class 2	14 Lead & Copper / Phosphorus Removal	15
16	17	18	19 Small System Class 2	20 Small System Class 2	21 Basic Math	22
23	24	25	26 Basic Math	27 Exam Prep (3/4/D)	28 Exam Prep (2)	29
30						

May 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat
	1	2	3	4 VRWA Conference Training—earn up to 3.5	5	6
7	8	9	10	11	12	13
14	15	16 Mgmt of Onsite/ Decentralized WWTF	17	18 Understanding Motor Control Panels	19	20
21	22	23	24	25	26	27
28	29	30	31 TNC Opera- tions			

June 2017

Sun	Mon	Tue	Wed	Thu	Fri	Sat
				1	2 TNC Opera- tions	3
4	5	6	7 Lead and Copper Rule / Brewery Process	8 Understanding Motor Control Panels	9	10
11	12	13 Maintaining WW Capacity, High Strength	14 Blueprint Reading	15 Blueprint Reading	16	17
18	19	20 INFLO Phosphorus Roundtable / Motors	21 Motors, Drives and Efficiency	22 Lead & Copper Rule/Mechanical Seals	23 Mechanical Seals	24
25	26	27	28 Pipe Location and Leak Detection	29 Pipe Location and Leak Detection	30	

Pipe Location and Leak Detection—with hands-on experience at Milton/Montpelier Water Systems

Dates & Locations (choose one):

- June 28, 9:00am-1:30pm, Montpelier Public Works Garage, 783 Dog River Road, Montpelier, VT
- June 29, 9:00am-1:30pm, Swanton Village Office, 120 First Street, Swanton, VT

Credit: 4 TCH

Non-member cost: \$40

Member cost: \$32

Instructor: Warren Verga (360 Utility Solutions)

Proctor: Matt Guerino (VRWA)

This course is designed to help operators use equipment for leak detection and pipe location. From identifying appropriate tools to how the tools work, this course will educate Water Systems Operators on different methods of identifying water system leaks and pipe location. Also, new technologies in equipment that allow integrating asset management, mapping, and GIS information with leak detection programs will be discussed. In addition to in-class time, this course will also go out and review leak detection processes and pipe location in the water system.



Registration Information

Deadline: Two business days before course date. Registrations received less than two days before a session are subject to a \$20 late fee. **No walk-ins allowed. Sign-in begins 15 minutes before the start of the course.**

Register on the web:

www.vtruralwater.org

Register by mail: Complete the form below and send it with a check or money order for the full amount to:

VRWA
20 Susie Wilson Road, Suite B
Essex Jct., VT 05452

Register by fax: You may complete the form below and fax it to **866-378-7213**.

Seating is limited, so register early. Your cancelled check confirms your registration; you will only be notified if the course is cancelled.

Fees

Due to government support secured by VRWA, we are able to offer courses at a reduced rate. The actual training is free of charge, but all courses have a materials fee.

Cancellations / Refunds

If you will be unable to attend a class, you must contact our office at least 24 hours in advance to receive a refund.

Member rate

VRWA member systems receive a 20% discount. To join VRWA, call 802-660-4988 or visit www.vtruralwater.org.

Special needs

Please contact us at 802-660-4988 prior to your class if you have any special needs.

Credit

Training Contact Hours (TCHs) are awarded for all training courses. These are applicable for operator certification in Vermont. You must attend 100% of the course in order to receive TCHs. Course objectives determine whether credits are applicable to a water operator or a wastewater operator's certification; some courses apply to both types of certification. **All attendees will receive a record of TCHs earned after completing a course.** Reprints of lost TCH certificates are available for a fee.

Registration Form

Duplicate this form to sign up for more than one course.

Course Name _____

Date & Location _____

Attendee Name(s) _____

Facility/Business _____ **WSID# or WW#** _____

Address _____

City, State, Zip _____

Phone _____ Emergency Phone (for cancellations due to weather): _____

Email _____

Total Payment Enclosed _____

Questions? Call 802-660-4988.



20 Susie Wilson Rd., Ste. B
Essex Jct., VT 05452-2827
www.vtruralwater.org

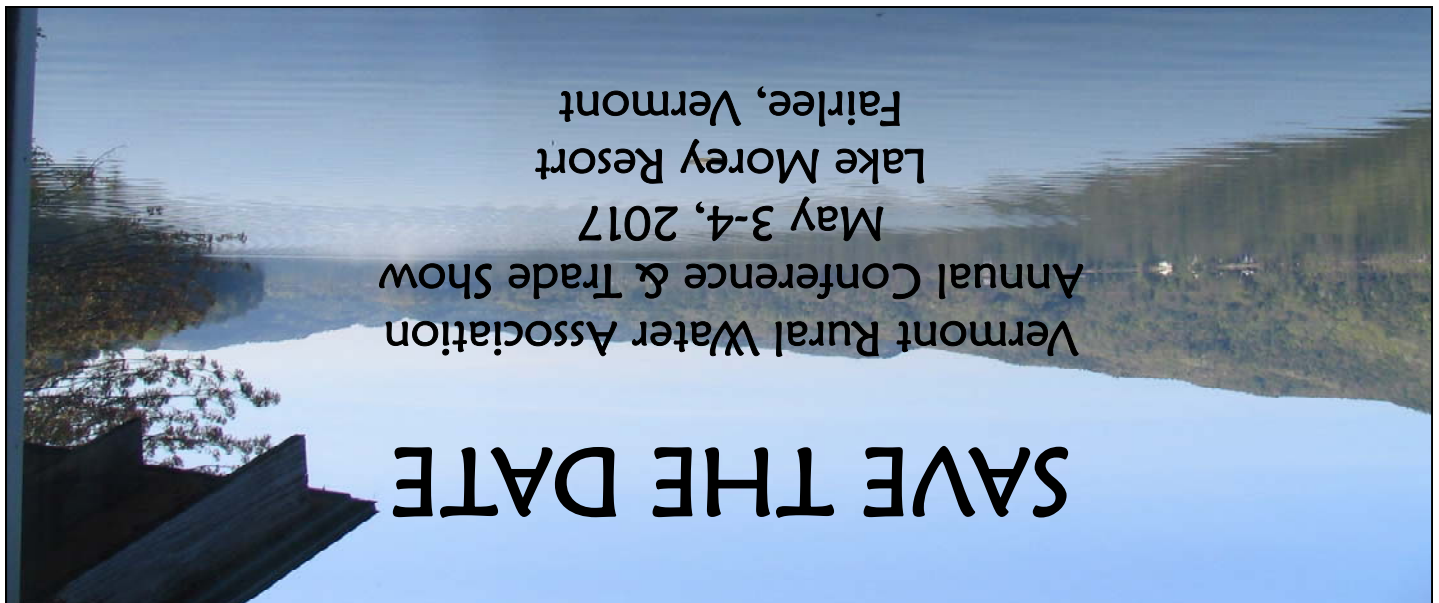
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CURRENT RESIDENT OR

To view the most current training schedule, visit www.vtruralwater.org

Do not discard until June 30, 2017.

**IMPORTANT WATER & WASTEWATER OPERATOR
TRAINING ANNOUNCEMENT ENCLOSED**



SAVE THE DATE
Vermont Rural Water Association
Annual Conference & Trade Show
May 3-4, 2017
Lake Morey Resort
Fairlee, Vermont