

## **Simplified Test Methods for Biological Nutrient Removal Processes**

### **Who Should Attend?**

This workshop will benefit anyone responsible for developing or complying with effluent nitrogen requirements, including municipal and industrial wastewater operators and managers, state regulators, environmental consultants and laboratory personnel.

**Cost:** \$50.00 for CT licensed wastewater operators. \$75.00 for all others. Lunch will be provided. There will be a \$15.00 late fee if registration is not received by November 20, 2006.

**Credits:** 6 Training Contact Hours

**Attendance:** Seven days notice is required in writing (mailed or faxed) for you to cancel at no cost. Cancellations received after this time will be charged \$15.00. Registrants who do not cancel and fail to show are responsible for full payment.

**Date:** **Tuesday, November 28, 2006**  
**Hartford MDC Training Center**  
**Hartford, CT**  
**8:30 a.m. to 3:30 p.m.**  
**(sign-in at 8:00 a.m.)**  
**Course Code: ETC0742**

**Directions will be mailed with confirmations.**

**Questions?:** Contact NEIWPCCC at 978-323-7929 or [training@neiwppcc.org](mailto:training@neiwppcc.org).



**NEIWPCCC**  
Boott Mills South  
116 John Street  
Lowell, MA 01852-1124

[www.neiwppcc.org](http://www.neiwppcc.org)



New England Interstate Water Pollution Control Commission

and Connecticut

Department of

Environmental Protection



## **Simplified Test Methods for Biological Nutrient Removal Processes**

**with Robert Geary, Hach Company**  
**and**

**Charles Conway, NEIWPCCC**

**November 28, 2006**  
**Hartford MDC**  
**Training Center**  
**Hartford, Connecticut**

## **Simplified Test Methods for Biological Nutrient Removal Processes with Robert Geary, Hach Company and Charles Conway, NEIWPCC**

Removing nutrients (nitrogen and phosphorus) from wastewater treatment plants has been effective in controlling nuisance aquatic plant growth. However, localized water quality requirements can be expected to lead to even lower limits on effluent nutrient levels.

In order to be successful in biological nutrient removal, operators need accurate data on these constituents in a timely manner. Quick, accurate, user-friendly test methods allow operators to remain in control of their facility and in compliance.

This workshop will introduce participants to biological nutrient removal process control procedures for POTWs, and the latest methods used to monitor and control the removal of nutrients (nitrogen and phosphorus) in biological wastewater treatment systems.

Hach Company will be on-site with their test equipment, which will allow participants to engage in hands-on colorimetric analysis of various forms of nitrogen including nitrate and nitrite, total and ammonia nitrogen, and various forms of phosphorus including orthophosphate and total phosphorus.

### **Specific topics include:**

- Developing a process control program for BNR.
- Hands on laboratory analysis of:
  - Total nitrogen and ammonia nitrogen
  - Nitrite and nitrate
  - Total phosphorus and orthophosphate
  - Alkalinity

This course will benefit anyone responsible for developing or complying with effluent nutrient requirements, including municipal wastewater operators and managers, state regulators, and environmental consultants.

Please complete this form and return with payment **by November 20, 2006**. Please use one form per attendee.

**Registration Fee:** \$50.00 for CT licensed wastewater operators. \$75.00 for all others. Fee includes lunch and course materials. (Registration costs partially subsidized for Connecticut Licensed Wastewater Operators by Connecticut DEP).

### **Mail registration form and fee to:**

NEIWPCC  
Attn: Hach Workshop  
116 John St.  
Lowell, MA 01852-1124

### **Registration**

**Name** \_\_\_\_\_

**Amount Enclosed \$** \_\_\_\_\_ **Check No.** \_\_\_\_\_

### **Or Use Your Credit Card**

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(indicate Visa, MC or Discover) (located on back of card)

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**Telephone** \_\_\_\_\_ **Fax** \_\_\_\_\_

**E-mail** \_\_\_\_\_

**CT WW License #** \_\_\_\_\_

**Credits: 6 Training Contact Hours**

