Sustainable Technologies
EVALUATION PROGRAM

Turbidity Control on Construction Sites

Date: November 11, 2020
Location: Aquatech Dewatering Company, 331 Rodinea Rd, Maple, ON L6A 4P5
Cost: $115.00 plus Tax **| Registration:** www.sustainabletechnologies.ca/events/

Instructor: Rich McLaughlin, Professor, Urban Soil & Water Management, North Carolina State University

Course Description:

When it rains on an active construction site, the runoff inevitably will be very muddy looking, or turbid, even after it passes through sediment control measures. Treating this runoff with small amounts of chemicals that coagulate or flocculate the suspended sediment can be a relatively simple and inexpensive practice. In this class we'll review turbidity sources, soil properties, and available chemicals and their associated properties to understand how to approach the problem. Furthermore, we'll review a wide variety of systems that can be deployed to reduce discharged turbidity by 10-100X.

Learning Objectives – Upon completion of this course participants will be able to:

- Understand the nature of the turbidity problem relative to conventional erosion and sediment control practices.
- Become knowledgeable about the options for turbidity control on construction sites.
- Be able to assess the relative risks and benefits of chemical treatments for turbidity control.
- Estimate the costs involved in turbidity control.

Agenda

Time	Task
7:00 – 8:00 am	**Arrival and Registration**
8:00 – 8:15 am	**Welcome, Introductions & Announcements**
8:15 – 9:00 am	**Erosion and Sediment Control Best Practices**
9:00 – 9:30 am	**Polymers: Relevant Chemistry and Applications for Water Quality**
9:30 – 10:00 am	**Erosion Control Enhancement with PAM**
10:00 - 10:30 am	**NETWORKING BREAK**
10:30 – 12:00 pm	**Passive Dosing Approaches for PAM**
12:00 – 1:00 pm	**NETWORKING LUNCH**
1:00 – 1:30 pm	**Toxicology 101: Determining Risks and Benefits of Turbidity Controls**
1:30 – 2:00 pm	**Active Dosing Systems**
2:00 – 2:30 pm	**Screening Exercise with Soils and Flocculants**
2:30 – 3:30 pm	**Example Calculations for Cost Estimation**
3:30 – 4:30 pm	**Design Considerations: Discussion**

For more information, please visit www.sustainabletechnologies.ca/events

The Sustainable Technologies Evaluation Program (STEP) is a conservation authority initiative. Current partners are:

Credit Valley Conservation inspired by nature
Lake Simcoe Region conservation authority
Toronto and Region Conservation Authority