



Layered Landscapes: Soils, Waters, and Wastewater Regulation

Location: Lewis Creek, Cota Field, Starksboro, Vermont

Corner of "State's Prison Hollow Road" and VT Route 116

Date: 8:30 am - 12:30 pm, Thurs., Sep 4, 2025

Fee: \$100 YOWA members
\$200 all others (includes YOWA membership)

Vermont
4 LD Soils
Credits

4 TCHs
SE/SI-MA
pending

Join us for an in-depth field workshop focused on soils, wastewater regulations, and jurisdictional impacts in the Lewis Creek watershed.

Why Attend?

This hands-on workshop brings together local experts and practitioners to explore how soil characteristics and regulatory frameworks intersect to affect wastewater planning and land development in sensitive environmental areas.

Agenda (Event starts at 8:30 am):

Site Overview & Soils Introduction (15 min)

- Overview of Lewis Creek area soils and site history

Wastewater Oversight & Jurisdiction (45 min)

- Bruce Douglas: Onsite wastewater soil evaluations and regulatory considerations
- Zapata Courage: Wetlands (soils, hydrology & vegetation) jurisdiction & design impacts
- Kyle Medash: Floodplain & river corridor deposition & erosion and rules for siting systems

Test Pit Review & Group Discussion (3 hours)

- Six diverse test pits (uplands, buffers, floodplains) reviewed and logged with expert guidance
- Collaborative review of soils, regulatory overlaps, and hypothetical design implications
- Explore design strategies based on soil conditions for replacement vs. new systems at each test pit site

**Vermont designers
will be given
priority placement.
Spots are limited.**

Who Should Attend?

- ✓ Licensed Site Evaluators
- ✓ Soil Scientists
- ✓ Wastewater Designers
- ✓ Environmental Consultants
- ✓ Regulators and Planners

 Bring your boots, notebook, and questions—this field session is designed to enhance your practical understanding of complex site conditions.

Feel free to bring your own lunch or snack to eat during the discussion at the conclusion of the workshop.

**REGISTRATION &
MORE INFO**



Speaker List

Zapata Courage | District Wetlands Ecologist Vermont Wetlands Program

Zapata works with landowners and consultants reviewing wetland delineations and providing technical assistance. She manages permitting, regulatory, and compliance issues related to wetlands in her region.

Bruce Douglas | Wastewater Engineering Manager Vermont Wastewater Program

Bruce is a soil scientist, hydrogeologist and professional engineer, and is currently responsible for statewide technical reviews of Wastewater Systems and Potable Water Supplies which are implemented through five regional offices.

Kyle Medash | River and Floodplain Manager Vermont Rivers Program

Kyle works with municipal officials, landowners, and consultants reviewing development proposals in FEMA mapped Floodplains and State mapped River Corridors for compliance with municipal/state regulations and incorporating flood resilient designs.

Equipment List

1. Sun block and hat
2. Insect repellent and lint roller (for ticks); tape for pants legs (for tick exclusion!)
3. Soil Color book ([Munsell Soil Color Book #M50215B](#) or [GLOBE #GEO801](#))
4. Tape measure
5. Trowel, knife, or small garden shovel
6. Soil sample tray (a plastic plate or muffin tin is acceptable)
7. Spray water bottle
8. Small towel to wipe hands
9. Clipboard
10. Proper field clothing including rain gear, work boots, etc.
11. Rubber boots suitable for crossing shallow water.
12. 5-Gallon bucket with cover – you can store your supplies in the bucket and use it for seating in the field.
13. Camp chair or seat (optional) for breaks

If you prefer to bring a lunch or snack, you are welcome to do so. No lunch is provided, although coffee and donuts are provided in the morning.