

# CEMA 216 Soil Health Testing

UVM Soil Health Research  
and Extension Center

Soil health monitoring provides producers, managers, and planners with information to refine their practices and improve economic, social, and environmental outcomes across all land uses. By routinely assessing soil conditions and linking them to key performance indicators, soil health becomes an integrated part of any management system.

The Environmental Quality Incentives Program (EQIP) and the new Regenerative Pilot Program (RPP) are USDA NRCS initiatives providing financial and technical assistance to participants to enhance soil health. The RPP requires that participants complete quantitative soil health testing as part of their enrollment, and the Conservation Evaluation and Monitoring Activity (CEMA 216) defines that requirement. CEMA 216 calls for measurement of five core soil health indicators to evaluate overall soil ecosystem health—soil aggregation, soil carbon cycling, microbial activity, carbon food source, and nitrogen food source—as well as soil pH and texture. SHREC fulfills the CEMA 216 testing requirements through the below package.



## SHREC II Package: CEMA 216

### 5 Required Soil Health Indicators

- Wet Aggregate Stability
- Soil Organic Carbon (dry combustion)
- Soil Respiration (4-day respiration with base trap)
- Active Carbon (permanganate oxidizable carbon POXC)
- Bioavailable Nitrogen (ACE protein)

### Interpretive Characteristics

- Soil pH (1:1 water to soil)
- Soil Texture (pipette method)

**Price: \$150**

**Before collecting your sample, please read:** “How to Use the SHREC Lab” ([go.uvm.edu/useshrec](http://go.uvm.edu/useshrec)) and “Soil Health Sampling Guide” ([go.uvm.edu/sample](http://go.uvm.edu/sample)).

**To submit your soil sample:** use the “SHREC Submission Form” ([go.uvm.edu/shrecform](http://go.uvm.edu/shrecform)).

**Turnaround Time:** 8 weeks

**Payment:** When results are ready, we will send you a link to pay online. We prefer credit card payments, but the link also provides instructions for paying by check. We also accept internal UVM payments (chartstrings).

**Information & Forms:** [go.uvm.edu/shrec](http://go.uvm.edu/shrec)

**Questions?** Contact SHREC Lab Manager Marie English at [marie.english@uvm.edu](mailto:marie.english@uvm.edu).



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