

Investigation in Biogenic Volatile Organic Compounds as Indicators of Carbon Sequestering Soils

Sandia PI:

Philip R Miller (8634)

Technical Staff Member

University PI:

Professor Jorge Mazza Rodrigues

Land, Air, and Water Resources

Student Supporting Project:

Joseph Student

Graduate Student

Land, Air, and Water Resources

Project Summary:

- Chemical analysis of soils can predict soil carbon sequestration¹
- Rapid analysis tools would improve soil characterization ability
- BioVOCs are naturally emitting compounds associated with biological species and processes, and will be explored as indicators of soil carbon sequestration
- Portable bioVOC analysis systems are under development by our group



Portable bioVOC System

