**Permit 2021-004:**

Name:
Lamalani Suarez

Department or Organization:
Integrated Bioscience

Email Address:
ls129@uakron.edu

Are you requesting renewal of a previously approved permit applicaton?
No

Type of activities at The University of Akron Field Station and Bath Nature Preserve
Research

Title of project or class name and course number:
VIS-VIR spectroscopy validation for soil carbon measurements

Date/Dates requested:
4/1/2021-4/15/2021

Number of people in group:
4

I am requesting permission to use a Research Area.
Yes

I am requesting permission to use a Sensitive Area.
No

I am requesting permission to use areas outside of the designated Research or Sensitive Areas.
No

I would like to use the Martin Center for Field Studies and Environmental Education for this prop...
No

Will the activity involve destructive sampling/collecting?
No

Which Research Areas?
Grandview Alley

Provide a brief description of (1) your proposed activities, (2) goals, and (3) impacts of your u...
This research will test the viability of VIS-NIR spectroscopy to detect carbon in soil and how many sampling points are necessary to adequately measure carbon variability across the selected area. The spectroscopic probe will be inserted into the soil to 1m in depth along a sampling grid in Grandview Alley. Some conventional soil core samples to 30 cm in depth will be taken alongside the probe points to calibrate the instrument. The spectroscopic probe will have no impact on Bath Nature Preserve besides normal walking upon land and carting of the instrument. The conventional soil sampling will have minimal impact to Bath Nature Preserve as a narrow soil core will be removed for laboratory analysis.

By checking this box, I agree to the above terms and state that all of the above information is c...
I agree