SOIL TRANSFORMATIONS

Soil Biology Report Performed By:

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Client:

Sample Client
Address
Boulder, CO, 80304, United States
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Date Observed: May 12, 2022

Assessment Name: Field A
Plant Present/Desired: Vegetables

Sample Type: Soil
Plant Succession: Vegetables, Early Successional Grasses

Beneficial Microorganisms

	Recommended Range		Sample	
Fungi (µg/g)	68	225	0	None Detected: Please contact your Soil Biology Consultant.
Standard Deviation			0	-
Bacteria (µg/g)	135	450	1,335.16	The bacterial biomass is significantly greater than the maximum recommended level. Please contact your Soil Biology Consultant.
Standard Deviation			181.11	Distribution of the target organisms in the sample was uniform; variation was small.
Actinobacteria (µg/g)	10	16	1.19	Low: The actinobacterial biomass is below the expected range. This is not a problem.
Standard Deviation			0.95	Few target organism were present and variability was very high. Precision is very low.
F:B Ratio	0.4	0.6	0	The F:B ratio is low. Increase fungal biomass or reduce bacterial biomass, and check predators to assess balance. Please contact your Soil Biology Consultant.
	Minimum Value			
Protozoa **(Total)**	> 10,000		222,527.47	Good: The number of beneficial protozoa is above the minimum requirement.
Standard Deviation			221,149.58	Few target organism were present and variability was very high. Precision is very low.
Flagellate (#/g)	(See Total)		222,527.47	
Standard Deviation			221,149.58	
Amoebae (#/g)	(See Total)		0	
Standard Deviation			0	
Nematodes				
Bacterial-feeding (#/g)	200		100	Low: Bacterial-feeding nematodes help keep bacterial populations in balance and enhance nutrient cycling.

Fungal-feeding (#/g)	0	0	None detected: Fungal-feeding nematodes help to release nutrients from fungal hyphae to the plants.
Predatory (#/g)	0	0	None detected: Predatory nematodes help reduce root-feeding nematode numbers.

Detrimental Microorganisms

Disease-Causing Fungi	Maximum Value	Sample	
Oomycetes (µg/g)	0	0	None detected: No disease-causing fungi were observed in the sample. Great!
Standard Deviation		0	Distribution of the target organisms in the sample was uniform; variation was small.
Anaerobic Protozoa			
Ciliate (#/g)	0	0	None detected: No ciliates were observed in the sample. Aerobic conditions prevail. Great!
Standard Deviation		0	Distribution of the target organisms in the sample was uniform; variation was small.
Nematode			
Root-feeding (#/g)	0	0	None detected: No root-feeding nematodes were observed. Great!