

Report generated for:
Arbor True

21456 W Knox
Porter, TX 77365

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<http://soiltesting.tamu.edu>

Date Processed: 5/4/2018
Sample(s) from Harris County

Section 1: Based on analysis of oven dried sample(s)

Laboratory #	Customer Sample Identification	Total Nitrogen %	Total Phosphorus %	Total Potassium %	Total Calcium %	Total Magnesium %	Total Sodium %	Total Zinc ppm	Total Iron ppm
45017417	S 3	0.3494	0.0549	0.2634	1.1218	0.1349	0.0445	298.81	12942.40
45017418	S 2	0.3315	0.0751	0.2175	1.0642	0.1334	0.0491	580.05	18923.90
45017419	S 1	0.9982	0.1287	0.4994	1.7214	0.1822	0.0361	68.02	5138.49
45017420		1.0305	0.1989	0.4853	2.0915	1.0110	0.3305	79.82	11758.00

Laboratory #	Total Copper ppm	Total Manganese ppm	Total Sulfur ppm	Total Boron ppm	% Dry Matter	pH	Cond. Umho/cm
45017417	175.65	193.46	754.97	4.25	64.6	7.5	1069
45017418	329.28	179.79	892.87	11.99	62.6	7.4	779
45017419	28.37	172.64	1140.43	10.23	55.4	7.3	1270
45017420	32.09	497.26	1652.48	23.84	53.2	7.6	1033

Section 2: Pounds of nutrient per ton on an as received basis

Laboratory #	Customer Sample Identification	Nitrogen lbs/wet ton	P ₂ O ₅ lbs/wet ton	K ₂ O lbs/wet ton	Calcium lbs/wet ton	Magnesium lbs/wet ton	Sodium lbs/wet ton	Zinc lbs/wet ton	Iron lbs/wet ton
45017417	S 3	4.52	1.63	4.09	14.50	1.74	0.57	0.388	16.730
45017418	S 2	4.15	2.15	3.27	13.32	1.67	0.62	0.726	23.694
45017419	S 1	11.05	3.26	6.64	19.06	2.02	0.40	0.075	5.690
45017420		10.96	4.85	6.20	22.25	10.76	3.52	0.085	12.510

Laboratory #	Copper lbs/wet ton	Manganese lbs/wet ton	Sulfur lbs/wet ton	Boron lbs/wet ton
45017417	0.227	0.250	0.976	0.005
45017418	0.412	0.225	1.118	0.015
45017419	0.031	0.191	1.263	0.011
45017420	0.034	0.529	1.758	0.025

Cheap compost is often made with toxic materials like treated pallets and railroad ties. Toxic levels of heavy metal will result.



Client:
AT Field Tests

PCR Pathogen Panel
ArborTrue Labs
21456 W. Knox Drive
Porter, TX 77365
ArborTrue.com

Processed: 5-1-2018

	Ganoderma	Phytophthora	Inonotus	Armillaria
Sample 1	NEG	NEG	NEG	NEG
Sample 2	NEG	POS	POS	POS
Sample 3	POS	POS	POS	POS
Sample 4	POS	POS	POS	POS

Properly aged compost will have time to "cook" out the pathogens

All but one compost yard tested positive for common disease causing pathogens



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13193 Oroville Quincy Highway
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Soil Foodweb Report
Arbor True Environmental Services
Brad Phillips
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Porter, TX 77365
(832)803-8950
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April 13, 2018

"Dedicated to promote peace, harmony, and dignity amongst all living things."

Sample Name: **Sample 1**
Sample Type: **Compost**

	Minimum Requirements	Sample Results	Sample Type: Compost Plants Present/Desired: Turf
<u>Beneficial Microorganisms</u>			
			= Standard Deviation
Bacteria (um/g)	300	4,304 583	High: The bacterial biomass is above the recommended range. Needs to be reduced.
Actinobacteria (um/g)	1-4	0.5 0.3	Low: The actinobacteria is lower than what is normally found in healthy soils with similar plants.
Fungi (um/g)	300	77 114	Low: The beneficial fungal biomass does not meet the minimum recommendations. Need to replenish and enhance.
F:B Ratio	0.8:1 – 1:1	0.02	Low: The bacterial biomass needs to be reduced and the fungal biomass needs to be replenished. Once this is achieved, then the F:B ratio will be closer to the desired range for your types of plants.
<u>Protozoa (Total)</u>			
	>50000		Good: The beneficial protozoa numbers observed met the minimum requirements for your types of plants.
Flagellate (#/g)	(See Total)	16,304 36,457	
Amoebae (#/g)	(See Total)	65,216 36,457	
<u>Nematodes</u>			
Bacterial-feeding (#/g)	200	0	None detected: Bacteria-feeding nematodes help keep bacteria populations in balance. Need to replenish.
Fungal-feeding (#/g)	20	0	None detected: Fungal-feeding nematodes help to release nutrients from fungal hyphae to the plants. Need to replenish.
Predatory (#/g)	2	0	None detected: Need to replenish.
<u>Detrimental Microorganisms</u>			
<u>Disease-Causing Fungal</u>			
Oomycetes (um/g)	0	0 0	None detected. No disease-causing fungi were observed in the sample. Great!
<u>Anaerobic Protozoa</u>			
Ciliate (#/g)	0	0 0	None detected: No ciliates were observed in the sample. Great!
<u>Nematode</u>			
Root-feeding (#/g)	0	0	None detected. No root-feeding nematodes were detected. Great!
Were any anaerobic indicating bacteria observed in the sample?			
No			
Were any pathogenic bacteria observed in the sample?			
No			



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Sample Name: **Sample 2**
Sample Type: **Compost**

	Minimum Requirements	Sample Results	Plants Present/Desired: "Just
<u>Beneficial Microorganisms</u>			= Standard Deviation
Bacteria (um/g)	300	1,663 213	Okay: The results were within range but very high compared to beneficial fungi biomass. Reducing bacteria is recommended.
Actinobacteria (um/g)	1-4	0.6 0.4	Low: The actinobacteria is lower than what is normally found in healthy soils with similar plants.
Fungi (um/g)	300	27 40	Low: The beneficial fungal biomass does not meet the minimum recommendations. Need to replenish and enhance.
F:B Ratio	0.8:1 – 1:1	0.02	Low: The bacterial biomass needs to be reduced and the fungal biomass needs to be replenished. Once this is achieved, then the F:B ratio will be closer to the desired range for your types of plants.
<u>Protozoa (Total)</u>			
Flagellate (#/g)	(See Total)	0 0	Low: Bacteria is the main source of food for protozoa. Protozoa help to keep the bacterial biomass in range and release nutrients into plant available form by consuming the bacteria. Need to replenish.
Amoebae (#/g)	(See Total)	8,152 18,228	
<u>Nematodes</u>			
Bacterial-feeding (#/g)	200	0	None detected: Bacteria-feeding nematodes help keep bacteria populations in balance. Need to replenish.
Fungal-feeding (#/g)	20	0	None detected: Fungal-feeding nematodes help to release nutrients from fungal hyphae to the plants. Need to replenish.
Predatory (#/g)	2	0	None detected: Need to replenish.
<u>Detrimental Microorganisms</u>			
<u>Disease-Causing Fungi</u>			
Oomycetes (um/g)	0	0 0	None detected. No disease-causing fungi were observed in the sample. Great!
<u>Anaerobic Protozoa</u>			
Ciliate (#/g)	0	0 0	None detected: No ciliates were observed in the sample. Great!
<u>Nematode</u>			
Root-feeding (#/g)	0	0	None detected. No root-feeding nematodes were detected. Great!
Were any anaerobic indicating bacteria observed in the sample?			Yes
Were any pathogenic bacteria observed in the sample?			No



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Sample Name: Sample 3
Sample Type: Compost

Beneficial Microorganisms	Minimum Requirements	Sample Results		Plants Present/Desired: Turf
			= Standard Deviation	
Bacteria (um/g)	300	1,500 136		Okay: The results were within range but very high compared to beneficial fungi biomass. Reducing bacteria is recommended.
Actinobacteria (um/g)	1-4	0.7 0.5		Low: The actinobacteria is lower than what is normally found in healthy soils with similar plants.
Fungi (um/g)	300	37 58		Low: The beneficial fungal biomass does not meet the minimum recommendations. Need to replenish and enhance.
F:B Ratio	0.8:1 - 1:1	0.02		Low: The bacterial biomass needs to be reduced and the fungal biomass needs to be replenished. Once this is achieved, then the F:B ratio will be closer to the desired range for your types of plants.
Protozoa (Total)				
	>50000			None detected: Bacteria is the main source of food for protozoa.
Flagellate (#/g)	(See Total)	0		Protozoa help to keep the bacterial biomass in range and release nutrients into plant available form by consuming the bacteria. Need to replenish.
Amoebae (#/g)	(See Total)	0		
		0		
Nematodes				
Bacterial-feeding (#/g)	200	0		None detected: Bacteria-feeding nematodes help keep bacteria populations in balance. Need to replenish.
Fungal-feeding (#/g)	20	0		None detected: Fungal-feeding nematodes help to release nutrients from fungal hyphae to the plants. Need to replenish.
Predatory (#/g)	2	0		None detected: Need to replenish.
Detrimental Microorganisms				
Disease-Causing Fungi				
Oomycetes (um/g)	0	0		None detected. No disease-causing fungi were observed in the sample. Great!
		0		
Anaerobic Protozoa				
Ciliate (#/g)	0	0		None detected: No ciliates were observed in the sample. Great!
		0		
Nematode				
Root-feeding (#/g)	0	0		None detected. No root-feeding nematodes were detected. Great!

Were any anaerobic indicating bacteria observed in the sample?
Were any pathogenic bacteria observed in the sample?

No
No