WALLACE LABORATORIES, LLC
365 Coral Circle
El Segundo, CA 90245
phone (310) 615-0116 fax (310) 640-6863

June 24, 2022

Conor Davis, conor@CaliforniaSoils.com
California Soils, Inc.
PO Box 345
Westley, CA 95387

RE: Sample received June 23, 2022
West Valley Compost, Our ID No. 22-175-09

Dear Conor,

The pH is moderately alkaline at 7.72.

Salinity is 6.75 millimho/cm. Chloride is 837 parts per million in the saturation extract. Soluble sulfur is high.

Nitrogen is low, about 50% of the soluble mineral nitrogen is nitrate nitrogen. Phosphorus, potassium, iron, manganese, zinc, copper, boron and magnesium are high. Sodium is modestly high. SAR (sodium adsorption ratio) is 3.0. The concentrations of common non-essential heavy metals are low.

Soil organic matter is 39.3% on a dry weight basis. The carbon:nitrogen ratio is 20.0.

The apparent cation exchange capacity is 60.2 milliequivalents per 100 grams. Exchangeable potassium is high. Exchangeable magnesium is good. Exchangeable calcium is good. Exchangeable sodium is moderate. Exchangeable hydrogen is low.

Sincerely,

Garn A. Wallace

Garn A. Wallace, Ph. D.
GAW:n

Paid $595.00, check No. 5148

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MEDIA REPORT

Print Date Jun. 24, 2022 Receive Date 6/23/22

Location California Soils, Inc.
Requester Conor Davis

graphic interpretation: * very low, ** low, *** moderate
* * * * high, * * * * * very high

ammonium bicarbonate/DTPA

extractable - mg/kg soil

Sample ID Number 22-175-09
Sample Description West Valley Compost

Interpretation of data low	medium	high	elements		graphic
0 - 12	16 - 28	32 - 44	**phosphorus**	440.08	*****
0-240	240-500	500-700	**potassium**	5,131.35	*****
0- 12	12- 20	over 20	**iron**	172.64	*****
0 - 2	3 - 4	over 5	**manganese**	134.41	*****
0 - 4	4 - 6	over 6	**zinc**	62.78	*****
0- 0.5	0.6 - 1	over 1	**copper**	23.70	*****
0 - 1	1 - 2	over 2	**boron**	6.80	*****
			calcium	2,219.37	****
			magnesium	857.86	*****
			sodium	968.32	****
			sulfur	2,381.28	****
			molybdenum	0.38	***
			nickel	2.10	*
The following trace elements may be toxic The degree of toxicity depends upon the pH of the soil, soil texture, organic matter, and the concentrations of the individual elements as well as to their interactions			**aluminum**	n d	*
			arsenic	1.03	*
			barium	3.09	*
			cadmium	0.19	*
			chromium	0.31	*
			cobalt	1.27	*
			lead	10.26	**
			lithium	1.30	*
			mercury	n d	*
			selenium	n d	*
			silver	n d	*
			strontium	7.96	*
			tin	n d	*
			vanadium	2.77	*

The pH optimum depends upon soil organic matter and soil content-
under 5 may be too acidic
6 to 7 may be good
over 8.0 is too alkaline

Saturation Extract			
pH value	7.72	****	
ECe (milli-mho/cm)	6.72	*****	
			millieq/l
calcium	489.3		24.5
magnesium	163.3		13.5
sodium	300.7		13.1
ammonium as N	8.7		0.6
potassium	1125.6		28.8
cation sum			80.4
chloride	837		23.6
nitrate as N	21.1		1.5
phosphorus as P	2.9		0.1
sulfate as S	777.0		48.6
anion sum			73.7
boron as B	0.69	***	
SAR	3.0	***	
est. gypsum requirement-lbs./cubic yard	18.3		

The ECe is a measure of the media salinity:
good at 200 ppm
good at 25 ppm
good at 25 ppm
good at 150 ppm
problems over 150 ppm
good at 100 ppm
good at 40 ppm
toxic over 800
toxic over 1 for many plants
increasing problems start at 3

Total Nitrogen, dry weight basis	0.98%	
Total Carbon, dry weight basis	19.64%	
Carbon:Nitrogen Ratio	20.0	
lime (calcium carbonate)	no	
organic matter, dry weight basis	39.28%	
moisture content of media	61.0%	
half saturation percentage	112.4%	

ideal percentages of cations				% saturation
abt 5 %	potassium	millieq K	7.61	13%
< 3%	sodium	millieq Na	1.61	3%
abt 70%	calcium	millieq Ca	41.37	69%
10 - 15%	magnesium	millieq Mg	9.43	16%
5-10%	hydrogen	millieq H	0.16	0%
		total millieq/100 grams	60.18	

Elements are expressed as mg/kg dry soil or mg/l for saturation extract.
pH and ECe are measured in a saturation paste extract. nd means not detected.