WALLACE LABORATORIES, LLC

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

July 17, 2023

Adam Rulifson, adam@PacificLandscapeSupply.com Pacific Landscape Supply PO Box 15809 San Luis Obispo, CA 93406

RE: Eco Topsoil Received July 13, 2023, Our ID No. 23-195-36

Dear Adam.

The pH is neutral at 7.03. Salinity is modestly elevated at 2.75 millimho/cm. Chloride is 275 parts per million in the saturation extract. Salt-sensitive plants need chloride below about 150 parts per million.

Nitrate nitrogen and sulfur are modest. Phosphorus, potassium, magnesium, iron, manganese, zinc, copper, sulfur and magnesium are high.

Sodium is moderate. SAR (sodium adsorption ratio) is 1.3. The concentrations of common non-essential heavy metals are low.

The soil texture is sandy loam. Based on the non-gravel fraction, it contains 75.1% sand, 16.4% silt and 8.6% clay. The gravel fraction is 18.4%.

Recommendations

Irrigate deeply initially. Reduce chloride to less than 150 parts per million in the saturation extract for salt-sensitive plants. Afterwards, apply calcium ammonium nitrate (27-0-0) at 4 pounds per 1,000 square feet.

For site maintenance, apply calcium ammonium nitrate (27-0-0) at 4 pounds per 1,000 square feet about once per quarter.

Monitor the plantings with periodic soil and leaf tissue testing. Adjust the maintenance program as needed.

Sincerely,

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

14, 2023 Receive Date 7/13/23

WALLACE LABS	SOILS REPORT	Γ	Print Date	Jul. 14, 2023	
365 Coral Circle	Location		Pacific Landscape Supply		
El Segundo, CA 90245	Requester		Adam Rulifson		
(310) 615-0116	graphic interpretation: * very low, *** low, *** moderate				
ammonium bicarbonata/DTP	A				

(310) 615-0116	graphic interpretation: * very low, ** low	w, *** moderate	
ammonium bicarbonate/DT	PA	* * * * high, * * * * * ver	ry high
extractable - mg/kg soil	Sample ID Number	23-195-36	, ,
Interpretation of data	Sample Description	Eco Topsoil	
low medium high	elements	•	graphic
0 - 7 8-15 over 15	phosphorus	17.29	
0-60 60 -120 121-180	potassium	750.00	
0 - 4 4 - 10 over 10	iron	29.84	****
0- 0.5 0.6- 1 over 1	manganese	32.41	****
0 - 1 1 - 1.5 over 1.5	zinc	7.63	****
0- 0.2 0.3- 0.5 over 0.5	copper	3.20	****
0- 0.2 0.2- 0.5 over 1	boron	0.56	****
	calcium	376.37	***
	magnesium	162.07	****
	sodium	100.97	***
	sulfur	38.85	**
	molybdenum	0.09	***
	nickel	1.18	**
The following trace	aluminum	n d	*
elements may be toxic	arsenic	0.12	*
The degree of toxicity	barium	0.93	*
depends upon the pH of	cadmium	0.07	
the soil, soil texture,	chromium	n d	*
organic matter, and the	cobalt	0.40	*
concentrations of the	lead	2.73	**
individual elements as	lithium	0.03	*
well as to their interactions.	mercury	n d	*
The pH optimum depends	selenium silver	n d	*
upon soil organic	strontium	n d	*
matter and clay content-	tin	1.71	*
for clay and loam soils:	vanadium	n d 0.22	
under 5.2 is too acidic	vanaulum	0.22	
6.5 to 7 is ideal	Saturation Extract		
	pH value	7.02	***
over 9 is too alkaline The ECe is a measure of	-	7.03 2.75	
	ECe (milli- mho/cm)	2.73	
the soil salinity:		207.2	millieq/l
1-2 affects a few plants	calcium	287.2 79.3	14.4
2-4 affects some plants, > 4 affects many plants.	magnesium sodium	79.3 98.0	6.5
> 4 affects many plants.	potassium	274.4	7.0
	cation sum	274.4	32.2
problems over 150 ppm	chloride	275	7.8
problems over 150 ppm	nitrate as N	9	0.6
	phosphorus as P	3.8	0.1
toxic over 800	sulfate as S	273.3	17.1
	anion sum		25.6
toxic over 1 for many plants	boron as B	0.25	**
increasing problems start at 3	SAR	1.3	*
est. gypsum requirement-lbs./per	r 1,000 square feet	17	
infiltration rate inches/hour		fair	
soil textu	sandy loam	gravel > 2 mm	
sand		75.1%	18.4%
silt		16.4%	gravel > 1/4 inch
clay		8.6%	0.0%
lime (calcium carbonate)		no gravel > 1/2 inch	
organic n	fair/good	0.0%	
moisture	3.8%		
half satur	ration percentage	25.8%	

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. Analytical data determined on soil fraction passing a 2 mm sieve.