

WALLACE LABORATORIES, LLC

365 Coral Circle
El Segundo, CA 90245
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July 5, 2010

wendy@herbalroom.com

Wendy Wu

ECCM

5910 Monterey Road

Los Angeles, CA 90024

RE: Future Soil for Side Yard

Dear Wendy,

The soil is alkaline with a pH of 7.46. The salinity is elevated at 2.14 millimho/cm. Nutrients are well supplied except for nitrogen which is low. Chloride is high. Magnesium is high.

Recommendations

General soil preparation for turf, ground cover and shrub areas. Broadcast the following materials uniformly. The rates are per 1,000 square feet. Incorporate them homogeneously 6 inches deep:

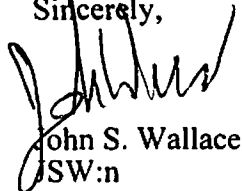
Ammonium sulfate (21-0-0) – 5 pounds
agricultural gypsum - 15 pounds

For the preparation of backfill mix for container plants and boxed trees, homogeneously blend the following materials into excavated soil. Rates are expressed per cubic yard:

Ammonium sulfate (21-0-0) – 1/4 pound
agricultural gypsum – 1 pound

For site maintenance, apply ammonium sulfate (21-0-0) at 5 pounds per 1,000 square feet about once per quarter. Monitor the site with periodic soil testing.

Sincerely,



John S. Wallace
JSW:n

WALLACE LABS
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MEDIA REPORT

Print Date July 5, 2010

Receive Date 7/2/10

Location Future Soil for Vegetable Garden

Requester Wendy Yu, ECCM

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

ammonium bicarbonate/DTPA

**** high, ***** very high

extractable - mg/kg soil

Sample ID Number

10-186-06

Interpretation of data

Sample Description

Side Yard

low medium high

elements

graphic

0 - 12 16 - 28 32 - 44

phosphorus

269.91 *****

0-240 240-500 500-700

potassium

4,033.48 *****

0- 12 12- 20 over 20

iron

16.55 ***

0 - 2 3 - 4 over 5

manganese

23.99 ****

0 - 4 4 - 6 over 6

zinc

38.96 ****

0- 0.5 0.6 - 1 over 1

copper

2.52 ****

0 - 1 1 - 2 over 2

boron

1.27 ***

ratio of calcium to magnesium

calcium

2,721.50 *****

needs to be more than 2 or 3

magnesium

813.16 *****

should be less than potassium

sodium

768.18 ***

sulfur

219.12 **

molybdenum

nd *

nickel

nd *

The following trace elements may be toxic

aluminum

nd *

The degree of toxicity

arsenic

nd *

depends upon the pH of

barium

2.82 *

the soil, soil texture,

cadmium

0.13 *

organic matter, and the

chromium

nd *

concentrations of the

cobalt

0.28 *

individual elements as well

lead

3.60 *

as to their interactions.

lithium

1.58 *

mercury

nd *

selenium

nd *

The pH optimum depends

silver

0.12 *

upon soil organic

strontium

20.06 **

matter and soil content-

tin

nd *

under 5 may be too acidic

vanadium

0.15 *

6 to 7 may be good

Saturation Extract

over 8.0 is too alkaline

pH value

7.46 ***

The ECe is a measure of

ECe (milli-

2.14 ****

the media salinity:

mho/cm)

millieq/l

good at 200 ppm

calcium

68.0 3.4

good at 25 ppm

magnesium

21.8 1.8

good at 25 ppm

sodium

116.8 5.1

good at 150 ppm

ammonium as N

1.4 0.1

good at 150 ppm

potassium

476.2 12.2

cation sum

22.6

problems over 150 ppm

chloride

372 10.5

good at 100 ppm

nitrate as N

2 0.2

good at 40 ppm

phosphorus as P

16.8 0.5

toxic over 800

sulfate as S

68.0 4.3

anion sum

15.4

toxic over 1 for many plants

boron as B

0.21 **

increasing problems start at 3

SAR

3.2 ***

est. gypsum requirement-lbs./cubic yard

16

relative infiltrate rate

fair/slow

lime (calcium carbonate)

no

organic matter

good

moisture content of media

133.8%

half saturation percentage

223.6%

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.