

## How To Submit Soil Sample(s):

### Select an Area to Sample

The area needs to be uniform in color, texture, depth, and drainage with the same fertilizing program and type of use. Lawns, trees, flowerbeds, cut and fill areas should be tested individually. An area containing multiple trees and shrubs can be grouped into one area if the plant appearance is the same. Plants with unusual symptoms need to be tested separately. Very large areas should have multiple analyses.

Multiple samplings should be taken from any one area, combined and then sub sampled for a submittal. Avoid sampling unusual areas such as burned spots or extra lush growth unless they are being sampled to determine the cause of their differences. Surface litter is normally removed. If one plant is being sampled, sample at least two or three spots. If multiple plants are being sampled, sampling one spot per plant is sufficient. For lawns, flowerbeds, vegetable gardens sample at least five sites, ten sites will be more representative, however.

### Depth of Soil Sampling

For new planting, sample from the surface extending as deep as the soil will be amended, generally 6 inches for groundcover, 24 inches for small boxed trees and 3 to 4 feet for large boxed trees.

For existing turf, sample 2 to 6 inches or the depth of the rooting zone, whichever is shallower.

For flower beds and vegetable gardens, sample generally from surface to 6 or 8 inches.

For trees and shrubs, sample from the surface to the active rooting depth which may extend to 12 or 18 inches. For best data, sample distinctive soil profiles individually.

### How to Sample

Use a soil probe or soil auger to remove a core sample. Otherwise, use a shovel to dig a hole to the desired depth. Sample the soil from the side of the hole by scraping it with a trowel. The tools need to be clean and not rusty. Avoid sampling when the soil is too wet.

### How to Combine Samples from Multiple Holes

Place the soil from the various holes taken from each sampled area into a clean plastic bucket. Mix the soil together homogeneously. Place two to three cups of the composite subsample (gravely, rocky soils need several cups more) into a zip lock plastic bag (about half full).

### How to Ship

Remove the excess air from the bag, zip lock it, fold it a few times, secure it with a rubber band and place it in a suitable mailer. Send the sample by mail, UPS or overnight carrier along with a brief description of the sample and future use of the area. For more than one sample, assign it a number and label the bag. Record the details in your files. Provide your name, phone number, address, email address and fax number if you wish to have the data faxed back.

Use this form to submit soil sample(s) - online users, please fill in the info below by clicking in the different sections then print the form to send in with sample.

Contact Name: \_\_\_\_\_ Company: \_\_\_\_\_

Day time number: \_\_\_\_\_ Cell/Evening number: \_\_\_\_\_

Fax number: \_\_\_\_\_ eMail address: \_\_\_\_\_

Address: \_\_\_\_\_ City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_

### Test(s) to be completed:

total # description / cost

- 1) **Standard Agricultural Soil Suitability Analysis:** *\*for only 1 sample place 1 the first box; for more than 1 sample type in the total number of samples in the second box to calculate 'Amount' below*  
 \$85.00 for one sample  
 \$80.00 each for 2 or more samples submitted at the same time for the same job  
 Soil analysis includes pH, salinity, concentrations of soluble salts, fertility (all 15 essential nutrients), sodium, and concentrations of 15 non-essential trace metals including aluminum, arsenic, cadmium, lead; SAR, moisture and more.  
 The soil report includes a narrative report of the major soil properties and recommendations.  
 ++ Describe whether the testing is for new landscape installation, site maintenance, gardening, new farm land, current farming, etc.
- 2) **Media Suitability Analysis:** ..... \$90.00 per sample  
 Includes same test items as item 1 in addition to ammoniacal nitrogen. Test to be done on organic soils, potting soils, lightweight soils, etc
- 3) **Comprehensive written soil report with more extensive evaluations and recommendations - Use form found on page 2** ..... \$50.00  
 Must be done in addition to Option 1, 2 or 6
- 4) **Soil Organic matter quality evaluation: total organic carbon and total nitrogen:** ..... \$55.00 per sample
- 5) **Total Analysis of Heavy Metals (epa 3051A)** ..... \$120.00 per sample
- 6) **Complete Compost Test:** ..... \$250.00 per sample  
 Including acidity, salinity, soluble salts, nutrient content both available and total concentrations, bulk density, organic matter, carbon:nitrogen ratio, bulk density, moisture, and more.
- 7) **Growth Study for toxicity: requires 1 Gallon of soil** ..... \$120.00 per sample  
 Percent germination and relative growth is measured with and without activated charcoal. Activated charcoal sequesters herbicides, pesticides and organic toxins.
- 8) **Soil Management Report:** *\*for only 1 sample place 1 the first box; for more than 1 sample type in the total number of samples in the second box to calculate 'Amount' below*  
 \$175.00 for one sample  
 \$170.00 each for 2 or more samples submitted at the same time for the same job  
 (Required by State of California AB 1881 for building permits)  
 Includes Standard Agricultural Soil Suitability, soil texture, soil organic matter and calculated rate of water percolation
- 9) **Other** (\*Please check the box then put the appropriate number for the test you would like to order in addition to your original soil test to calculate 'Amount' below)  
 texture (\$35.00)    water percolation rate (\$35.00)    CEC (cation exchange capacity), base saturation and percentages of exchangeable cations (\$45.00)

Payment | Payable by Money Order or Checks Only - Please make payable to Wallace Laboratories

Amount of money order or check: \_\_\_\_\_ check number: \_\_\_\_\_

### Standard Agricultural Soil Suitability Form:

Job Site / Client Name: \_\_\_\_\_ Sample Number: \_\_\_\_\_ of \_\_\_\_\_

++Description of what soil will be tested for: \_\_\_\_\_

Location on site: \_\_\_\_\_ Depth of sample: \_\_\_\_\_

additional information: \_\_\_\_\_

**please use if submitting more than one sample:**

Job Site / Client Name: \_\_\_\_\_ Sample Number: \_\_\_\_\_ of \_\_\_\_\_

++Description of what soil will be tested for: \_\_\_\_\_

Location on site: \_\_\_\_\_ Depth of sample: \_\_\_\_\_

additional information: \_\_\_\_\_

Job Site / Client Name: \_\_\_\_\_ Sample Number: \_\_\_\_\_ of \_\_\_\_\_

++Description of what soil will be tested for: \_\_\_\_\_

Location on site: \_\_\_\_\_ Depth of sample: \_\_\_\_\_

additional information: \_\_\_\_\_

Job Site / Client Name: \_\_\_\_\_ Sample Number: \_\_\_\_\_ of \_\_\_\_\_

++Description of what soil will be tested for: \_\_\_\_\_

Location on site: \_\_\_\_\_ Depth of sample: \_\_\_\_\_

additional information: \_\_\_\_\_

**Comprehensive Soil Report Form**

\_\_\_\_\_ **New installations\*** \_\_\_\_\_ **For site maintenance\*\***

\*Provide a plant palette list, type of irrigation, describe former use of the site and current use of the site, amount of mass grading, degree of soil compaction, subsurface conditions, type of irrigation water and any other pertinent information. If soil organic matter and soil texture are measures, the estimated rate of water percolation based on the USDA model will be provided at no additional fee. *(please use space below for answer)*

\*\*Include the information listed above and provide what information is available for the following considerations.

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**for site maintenance\*\***

Plant Diagnosis \_\_\_\_\_

plant species \_\_\_\_\_

Mechanical damage \_\_\_\_\_

degree of soil compaction \_\_\_\_\_

Is the soil crusted? \_\_\_\_\_

depth of soil amending \_\_\_\_\_

depth of topsoil \_\_\_\_\_

type of topsoil \_\_\_\_\_

type of subsoil \_\_\_\_\_

depth of soil moisture \_\_\_\_\_

water logging or water deficit \_\_\_\_\_

Plant Characteristics \_\_\_\_\_

proliferation, suckering, non flowering \_\_\_\_\_

Chlorosis, necrosis or discoloration \_\_\_\_\_

Wilting or malformation \_\_\_\_\_

Stunted or lodging \_\_\_\_\_

Discoloration of internal tissue \_\_\_\_\_

Leaf Characteristics \_\_\_\_\_

Leaf appearance and recent changes \_\_\_\_\_

Leaf spots, holes or shredding \_\_\_\_\_

Root proliferation \_\_\_\_\_

Are roots limited to rootball? \_\_\_\_\_

Amount of new root growth in backfill soil \_\_\_\_\_

root damage \_\_\_\_\_

coloration of roots \_\_\_\_\_

Nutrient deficiencies or excesses \_\_\_\_\_

Irrigation type \_\_\_\_\_

irregular pattern \_\_\_\_\_

Irrigation coverage and frequency \_\_\_\_\_

length and frequency \_\_\_\_\_

weather extremes \_\_\_\_\_

seasonal (frost/high temp) \_\_\_\_\_

insect injury \_\_\_\_\_

chemical damage \_\_\_\_\_

Presence of Diseases \_\_\_\_\_