



Analytical Research Laboratories Ltd

# Soil Sampling Guide

## Non-transect based soil sampling

- For the following crops, soil samples should be taken from systematic sampling points throughout the block in question. These points should be marked for future sampling. When sampling from a rooting zone (the area where the majority of fine feeding roots exist) or a drip zone (the area beneath the tree canopy) ensure the sampling distance from the plant base is kept constant each year.
- It is recommended that each sample be a composite of 15-20 cores

|          |            |           |               |
|----------|------------|-----------|---------------|
| Almonds  | Citrus     | Mandarin  | Peach         |
| Apple    | Feijoa     | Nashi     | Pear          |
| Apricot  | Grapefruit | Nectarine | Persimmon     |
| Avocado  | Lemon      | Olive     | Pinus Radiata |
| Cherry   | Macadamia  | Orange    | Plum          |
| Chestnut |            |           |               |

Sampling time: prior to crop establishment and annually from autumn to winter  
 Core depth: **15cm**  
 Area to sample from: **Drip zone**

|              |               |               |                     |
|--------------|---------------|---------------|---------------------|
| Alstroemeria | Carnation     | Lisianthus    | Rose (glasshouse)   |
| Blackberry   | Chrysanthemum | Oriental Lily | Sandersonia         |
| Blackcurrant | Gooseberry    | Passionfruit  | Strawberry          |
| Blueberry    | Grape         | Protea        | Tamarillo           |
| Boysenberry  | Gypsophila    | Raspberry     | Tomato (glasshouse) |
| Calla Lily   | Kiwifruit     |               |                     |

Sampling time: prior to crop establishment and annually from autumn to winter  
 Core depth: **15cm**  
 Area to sample from: **Root zone**

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| <b>Asparagus</b> |
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Sampling time: prior to crop establishment and annually from autumn to winter  
 Core depth: **15cm**  
 Area to sample from: **Throughout the asparagus beds**

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| <b>Cymbidium</b> |
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Sampling time: prior to crop establishment  
 Core depth: **2-20cm (0.5-1 litre of potting material)**

## Transect-based Soil sampling

- The following crops should be sampled across a line transect. Transect should be set up with markers, painting posts, or GPS coordinates to enable soil cores to be sampled from the same transect line in the future.
- It is recommended that each sample be a composite of 15-20 cores

|                |                       |                |
|----------------|-----------------------|----------------|
| Barley         | Cereal                | Onion          |
| Bean           | Choumoellier          | Parsnip        |
| Beetroot       | Courgette             | Pea            |
| Brassica       | Cucumber (glasshouse) | Potato         |
| Broccoli       | Egg Plant             | Pumpkin/Squash |
| Brussel Sprout | Garlic                | Radish         |
| Cabbage        | Kale                  | Silverbeet     |
| Capsicum       | Kumara                | Spinach        |
| Carrot         | Lettuce               | Turnip         |
| Cauliflower    | Maize                 | Wheat          |
| Celery         | Oats                  |                |

Sampling time: prior to crop establishment with subsequent annual or biennial sampling for permanent or semi permanent crops.  
Core depth: 15cm

| Mixed Pasture   | Ryegrass | White Clover |
|---|----------|--------------|
| Sampling time: annually to biennially<br>Core depth: 7.5 cm |          |              |

| Lucerne  |
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| Sampling time: annually from autumn to winter<br>Core depth: 15 cm |

| Mixed Pasture (DDT )  |
|---|
| Sampling time: prior to crop establishment<br>Core depth: 3.75 cm   |
| Dairy conversions and established dairy farms require confirmation of their organo-chlorine (DDT) residue status for compliance with the milk supply requirements of dairy factories. For regulatory purposes samples must be submitted by an accredited sampler, however for preliminary sampling this is not a requirement. |