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### Client

Name \_\_\_\_\_

Address \_\_\_\_\_

Postcode \_\_\_\_\_

Email \_\_\_\_\_

Phone \_\_\_\_\_ Fax \_\_\_\_\_

Client Reference \_\_\_\_\_

Additional Client Ref \_\_\_\_\_

Quote No \_\_\_\_\_ Order No \_\_\_\_\_

Date Sampled \_\_\_\_\_

**Charge To**  Client  Submitter (Company)  Other

### Primary Contact

Submitter (if different) \_\_\_\_\_

Company \_\_\_\_\_

Address \_\_\_\_\_

Email \_\_\_\_\_

### Results To

Reports will be emailed to Primary Contact by default. Additional Reports will be sent as specified below.

- Email Primary Contact  Email Client  Email Submitter  
 Email Other  Other

### SOIL SAMPLE DETAILS

Recommended Profiles are outlined below, and on the reverse of this sheet.

Please indicate your requested tests with a

Sample Identification	Sample Depth (mm)	Dairy (D), Drystock (DS) OR Crop Type (Specify)	Soil Code*	Rec. Profile	Basic Soil	Sulphur Profile	Anion Exchange Capacity	Total Sulphur	Resin P	Organic Soil Profile	Organic Matter	Pot Avail Nitrogen	Boron	Trace Metals	Melich 3	Soil Health Profile	See Over Page	Lab#
					BS	S	ASC	tS	RP	OrgSP	OM	AN	B	EDTA	M3	SHealthP	Other	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

\*Soil Code: Ash (A), Pumice (Pu), Peat (Pt), Sedimentary (Sed) – applies for pasture only, Glasshouse (GH)

Recommended Soil Profiles: (see Crop Guides)

Pasture (Basic Soil + S Profile), Arable Crops (Basic Soil + S Profile + Potentially Available N), Vegetables (Basic Soil + S Profile + Pot Available N), Avocado (Basic Soil + M3), Kiwifruit (Basic Soil + Pot Available N)

### PLANT SAMPLE DETAILS

Recommended Profiles are outlined below, and on the reverse of this sheet.

Please indicate your requested tests with a

Sample Identification	Dairy (D), Drystock (DS) OR Crop Type/Variety (Specify)	Crop Plant Part / Growth Stage	Rec. Profile	Basic Plant	Molybdenum	Cobalt	Selenium	Iodine	Chloride	Nitrate	Mixed Plant Profile	Complete Pasture Profile	Combined Pasture Profile	Combined Potato Profile	See Over Page	Lab#
				BP	MO	CO	SE	I	CL	NO3	MPast	CPP	CGP	CPotP	Other	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Recommended Plant Profiles: (see Crop Guides)

Clover Only (Basic Plant + Molybdenum), Kiwifruit (Basic Plant + Cl), Avocado (Basic Plant + Cl), Brassica (Basic Plant + Molybdenum), Lucerne (Basic Plant + Molybdenum), Mixed Pasture (Basic Plant + Mo, Co, Se + Cl + Crude Protein + ME), Complete Pasture (Mixed Pasture + Clover Only Profiles)

### FEED SAMPLE DETAILS

Recommended Profiles are outlined below.

Please indicate your requested tests with a

Sample Identification	Crop Grown	Sample Source e.g. paddock, trucks, stack, bales	Weeks in stack/bales (silage/baleage only)	Dry Matter	Dry Matter, CP, ME	Feed	Extended Feed	Silage	Extended Silage	Compound Feed CpdFeed	Other e.g. VFA, NO3-N	Lab#
				DM	DMME	Feed	ExtFed	Silage	ExtSil	NIR	Wet Chem	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	

Recommended Feed Profiles:

**Feedstuff** DM (Dry matter only), DMME (Dry Matter, Crude Protein, Digestibility, Metabolisable Energy), Feed (Dry Matter, Crude Protein, Crude Fat, Ash, Soluble Sugars, Starch, ADF, NDF, Lignin, Metabolisable Energy, Digestibility), ExtFed (Feed profile plus major & trace elements incl Cl), CpdFeed (Dry Matter, Crude Protein, Crude Fat, Ash, Soluble Sugars, Starch, ADF, NDF, Metabolisable Energy, Digestibility) - select between NIR analysis OR Wet Chemistry only (Price Impact).  
**Silage/Baleage** Silage (pH, Dry Matter, Crude Protein, Crude Fat, Ash, Soluble Sugars, Starch, ADF, NDF, Lignin, Metabolisable Energy, Digestibility, Lactic Acid, Ammonium N/Total N), ExtSil (Silage profile plus major & trace elements incl Cl)

### ADDITIONAL INSTRUCTIONS

NB. Please advise laboratory if hazardous substances possibly present in samples.

Total Number of Samples Sent **NOTE:** If more than one courier bag being sent for one farm, please indicate eg. 1 of 2, 2 of 2 etc on outside of courier bag so that all samples are reported in one job.

Please supply more of: (specify quantities required)

- Qty:  Request Forms KB 2009  Plant/Feed Bags (indiv)  
Qty:  Soil & Plant DIY sampling kits  Soil Bags (indiv)  
Qty:  Courier Bags:  NZ Courier  Courier Post  
Qty:  Other \_\_\_\_\_

Hill Laboratories terms of trade can be viewed on our website. Submission of samples on this analysis request form implies acceptance of those terms.

**PLEASE SIGN** Signature \_\_\_\_\_

Date \_\_\_\_\_

## SAMPLING INSTRUCTIONS

Interpretation of test data depends on the sample being taken (sampled) in the recommended manner. These notes will help to ensure that this is done. More detailed guides for specific crops are available on our website under **Crop Guides**. Please advise laboratory if hazardous substances might possibly be present in/on samples

### Soil:

- to determine the nutrient status of soils
- Take samples from sites representative of the greater part of the area.  
Avoid sampling unusual areas such as around hedges, fences, troughs, gates etc.
  - Sample to the correct depth: Pasture 7.5cm, Arable land and orchards 15cm, Turf 7.5cm.
  - Sample on a grid or zig-zag pattern, taking at least 20 cores.  
**Note: only 500cc (0.5 kg) is required for analysis**
  - Avoid contamination of samples, e.g. fertiliser. Use clean equipment and plastic sample bags.
  - Clearly label sample bags with a permanent marker or ballpoint pen.
  - Soils from horticultural, intensive cropping sites and turf areas should be analysed annually, at the same time of year. Arable and pasture paddocks also warrant sampling every year, especially if withholding or reducing fertiliser inputs when more regular data on nutrient depletion is essential.
  - Carefully check you have filled in the request form.
  - Send sample to laboratory as soon after collection as possible.

### Plant:

- for diagnosis of nutrient imbalance
- Collect the sample from plants that are representative of the crop. Avoid sampling from plants adjacent to shelter, headlands or other unusual areas.
  - Take approximately **100grams (25-30 leaves for larger plants)**.
  - Take care to avoid contamination of samples, particularly with soil, fertilisers and chemicals.
  - Identify the sample bags with permanent marker pen or ballpoint pen.
  - For diagnosis of nutritional disorders, sample plants showing signs of abnormality.
  - Carefully check that you have filled in the request form, then promptly despatch to the laboratory, or keep chilled overnight if necessary.

### Feed:

- Collect forage or silage sample representative of the feed source.
- Take approximately **500g-1kg** and place in sample bag, seal and identify clearly with permanent marker pen or ballpoint pen.
- Carefully check that you have filled in the request form, then promptly despatch to the laboratory. Send samples to laboratory as soon as possible after collection, or keep chilled overnight if necessary. Feed quality tests will be analysed using NIRS technology with automatic test notation if statistical prediction outliers exist. Reference method (wet chemistry) tests are available upon request.

## RECOMMENDED TEST SELECTIONS

See Crop Guides on website  
[www.hill-laboratories.com](http://www.hill-laboratories.com)

Hill Laboratories offers a wide range of tests for soil and plant testing. To assist you with selecting the tests to suit your particular needs, we have supplied the guide below. This shows which tests are strongly recommended, recommended, or applicable for special investigations only.  
Soil tests marked with \* will be analysed using NIRS with codeswap to wet chemistry if statistical prediction outliers exist.

### Recommendation Legend:

- Strongly recommended
- Recommended
- For special investigations

**Note:** Soil and Plant testing will incur a sample preparation fee if the basic test is not requested.

### Soils

Crop Grown	BS	S	*ASC	RP	*OrgSP	*OM	*AN	SS	HWEON/PMN	B	SHealthP
Pasture	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>						<input type="checkbox"/>
Arable Crop	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>		<input type="checkbox"/>
Forestry	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	
Sports Turf	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>		<input type="checkbox"/>			
Hort. Tree Crops	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>			<input type="checkbox"/>			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Hort. Field Crops	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>
Hort. Protected/Glasshouse	<input checked="" type="checkbox"/>		<input type="checkbox"/>			<input type="checkbox"/>		<input checked="" type="checkbox"/>			

**Basic Soil Profile:** volume weight, pH, Olsen phosphorus, potassium, calcium, magnesium, sodium, C.E.C., base saturation  
**\*Organic Soil Profile:** Organic matter, Total N, Potentially Available N  
**Soil Health Profile:** Basic Soil, Sulphur Profile, \*Anion Storage Capacity, \*Organic Soil Profile, \*Hot Water Extractable Carbon  
**Other soil tests available:**  
**S** – sulphate sulphur, \*organic sulphur \*ASC – Anion Storage Capacity  
**RP** – resin phosphorus \*OM – organic matter  
**\*AN/AMN** – potentially available nitrogen (anaerobic mineralisable N)  
**SS** – soluble salts **rMg** – reserve magnesium **B** – boron  
**pH** – pH only **AL** – aluminium  
**TMo** – Total Molybdenum **TSe** – Total Selenium  
**TBK** – reserve potassium \*TN – total nitrogen \*CN – C:N ratio  
**EDTA** – EDTA manganese, zinc, copper, cobalt, iron  
**TP** – total phosphorus \*TS – total sulphur **TCd** – total Cadmium  
**M3**(mehlich 3) – (P, Ca, Mg, K, Na, Mn, Zn, Cu, Co, Fe, Al, B)  
**\*HWE** – Hot Water Extractable Carbon  
**HWEON & PMN** – Hot Water Extractable Organic Nitrogen for Potentially Mineralisable N  
**MinN** – NO3-N, NH4-N (soils to be chilled before sending)  
**SoilTexture** - %sand, %silt, %clay

### Plants

Crop Grown	BP	MO	CO	SE	I	CL	SO4	AL	NO3	Other
Pasture	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Fruit Crop	<input checked="" type="checkbox"/>					<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Vegetable Crop	<input checked="" type="checkbox"/>	<input type="checkbox"/>				<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Kiwifruit	<input checked="" type="checkbox"/>					<input checked="" type="checkbox"/>				
Arable Crop	<input checked="" type="checkbox"/>						<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	
Flowers/Ornamental Crops	<input checked="" type="checkbox"/>									

**Basic Plant Profile:** \*nitrogen, phosphorus, potassium, sulphur, calcium, magnesium, sodium, iron, manganese, zinc, copper, boron  
**Complete Pasture Profile (CPP):** The herbage samples is divided in half and the clover is separated out. These are then tested as two samples  
**Mixed Pasture Profile (MPast):** Basic Plant, Mo, Co, Se + Cl + Crude Protein + ME  
**Combined Grape Profile (CGP):** Tests are carried out on the Petiole (NO3-N, P, K, Mg, S) and the Blade (N, P, K, S, Mg, Ca, Na, Mn, Zn, Cu, Fe, B) of the same leaf sample.  
**Combined Potato Profile (CPotP):** Tests are carried out on the Petiole (NO3-N, P, K, Mg) and the Blade (N, P, K, S, Mg, Ca, Na, Mn, Zn, Cu, Fe, B) of the same leaf sample.  
**Special plant tests:**  
**MO** – molybdenum **CO** – cobalt **SE** – selenium **I** – iodine **CL** – chloride  
**SO4** – sulphate-S **AL** – aluminium **NO3** – nitrate-N **NI** – nutrient indices