Analysis Results (SOIL)

Customer
A FARMER
THE FARM
ABC 123

Distributor
PRAG LTD
MOUNTAIN FARM
BROADWAY
HAVERFORDWEST
PEMBROKESHIRE
SA62 3HU

Sample Ref EXAMPLE S1 PLUS SA14

Date Received 01/05/2017 (Date Issued: 01/05/2017)

Sample No EXAMPLE S1 PLUS SA14

Crop POTATOES

Analysis	Result	Guideline	Interpretation	Comments
pH	6.1	6.5	Slightly Low	Slightly low. An acidic environment will reduce soil nutrient availability and the efficiency of any applied fertilisers or organic materials. A sub optimum pH will also impact on soil microbial populations and rates of activity. Refer to lime requirement.
Phosphorus (ppm)	20	16	Normal	**(Index 2.4)** 170 kg/ha P2O5 (136 units/acre).
Potassium (ppm)	98	121	Low	**(Index 1.6)** 330 kg/ha K2O (264 units/acre).
Magnesium (ppm)	457	51	Very High	**(Index 6.4)** Possible interference with the availability of Potassium.

Additional Comments

Soil applied P and K recommendations are taken from AHDB Nutrient management Guide (RB209) for Maincrop yielding 50 t/ha. The potash recommendations at target or lower indices can be can be adjusted when yield is likely to be larger or smaller than 50 t/ha by multiplying the difference in expected yield by the potash content per tonne yield (see 8th edition RB209 for more detail). Ensure the potash offtake is balanced by application of potash fertiliser on Index 2 soils, and check that the soil is maintained at Index 2 for both phosphate and potash by soil sampling every 3-5 years. The amounts of phosphate and potash shown at Index 2 are those recommended to achieve a total yield of 50 t/ha. The phosphate recommendations are intended to achieve optimum yield and should not be adjusted even if larger or smaller yields than 50 t/ha are expected.

INTERPRETATION & DECISION RULES
pH and macro-nutrient guidelines, index values and any fertiliser & lime recommendations are taken from AHDB publication 'Nutrient Management Guide (RB209)'. The laboratory exercises a Simple Acceptance decision rule as per ILAC G8:09.
Lime requirements assume a medium textured soil.

Additional technical bulletins are available at www.lancrop.com

Please Note

This report has been generated by Yara's Megalab™ software.

Released by Chris Lindley.....Laboratory Manager on behalf of Lancrop Laboratories

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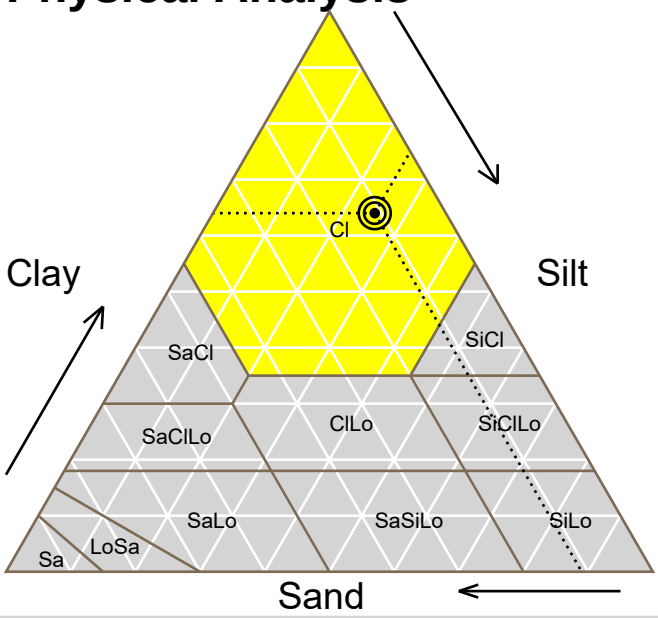
Physical Analysis



Analysis	Result (%)
Sand	11.00
Silt	25.00
Clay	64.00
Soil Type	Cl Clay

Property	Assessment
Available Water	Medium to Low
Drainage Rate	Slow (unless cracked)
Inherent Fertility	High
Potential C.E.C.	High
Leaching Risk	Low (unless cracked)
Warming Rate	Slow

Biological Analysis

SOLVITA®

Analysis	Result	Ideal
Solvita Burst CO2-C (ppm)	N/A	>70
Organic Carbon (%)	N/A	
Total Nitrogen (%)	N/A	
C:N Ratio	N/A	10-12

Calculated Parameters	Result
Microbial Biomass (mg/kg)	N/A
Solvita Potentially Mineralizable Nitrogen (kg N/ha)	N/A
Soil Assessment Score	N/A/100

pH impact on soil biology

Increasing Acidity
Fungi thrive
Bacterial activity declines
Nutrient cycling drops

Neutral
Desirable fungal and bacterial activity
Good earthworm activity
Nutrient cycling thrives

Increasing Alkalinity
Fungal activiy declines
Bacteria thrive
Nutrient cycling drops

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Date Printed : 29/02/2024