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**J143**

Please quote the above code for all enquiries

Client : BANKS GROUP  
SHEPLEY  
TOPSOIL 0-20CM  
18-08-2025

Sample Matrix : Agricultural Soil

Laboratory Reference

Card Number 72310/25

Date Received 26-Aug-25

Date Reported 01-Sep-25

## SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details		Soil pH	Index			mg/l (Available)		
	No.	Name or O.S. Reference with Cropping Details		P	K	Mg	P	K	Mg
384179/25	1	<b>FLD 1 TS 0-20CM</b> <i>Into Other Crop</i>	<b>6.3</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>37.0</b>	<b>299</b>	<b>158</b>
384180/25	2	<b>FLD 2 TS 0-20CM</b> <i>Into Other Crop</i>	<b>6.8</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>34.0</b>	<b>376</b>	<b>143</b>
384181/25	3	<b>FLD 3 TS 0-20CM</b> <i>Into Other Crop</i>	<b>6.8</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>36.5</b>	<b>296</b>	<b>127</b>
384182/25	4	<b>FLD 4 TS 0-20CM</b> <i>Into Other Crop</i>	<b>6.7</b>	<b>3</b>	<b>3</b>	<b>3</b>	<b>29.5</b>	<b>330</b>	<b>166</b>
384183/25	5	<b>FLD 4 DISTURBED</b> <i>Into Other Crop</i>	<b>6.8</b>	<b>3</b>	<b>3</b>	<b>4</b>	<b>26.8</b>	<b>362</b>	<b>204</b>

If general fertiliser and lime recommendations have been requested, these are given on the following sheets.

The analytical methods used are as described in DEFRA Reference Book 427

The index values are determined from the AHDB Fertiliser Recommendations RB209 9th Edition.

Released by ... **Redacted**

... On behalf of NRM

Date 01/09/25

DATE **1st September 2025**  
 SAMPLES FROM **BANKS GROUP, SHEPLEY,  
 TOPSOIL 0-20CM, 18-08-2025**

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Report Reference: 72310/25

Lab Ref.	Field Details		Soil Organic Matter [LOI%] Result
	No.	Field Name or Reference	
384179	1	FLD 1 TS 0-20CM	8.8
384180	2	FLD 2 TS 0-20CM	8.5
384181	3	FLD 3 TS 0-20CM	8.0
384182	4	FLD 4 TS 0-20CM	8.4
384183	5	FLD 4 DISTURBED	8.0

## Your Organic Matter Results Interpretation

Land use	Rainfall	Soil type	Very Low	Low	Target	High
Arable	Low <650mm	Light	<=1.0	1.1-2.1	2.2-3.2	>=3.3
		Medium	<=1.7	1.8-3.3	3.4-5.0	>=5.1
		Heavy	<=2.2	2.3-4.4	4.5-6.5	>=6.6
	Moderate 650-800mm	Light	<=1.0	1.1-3.0	3.1-4.5	>=4.6
		Medium	<=1.9	2.0-4.0	4.1-6.0	>=6.1
		Heavy	<= 2.7	2.8-5.2	5.3-7.6	>=7.7
	High 800-1100mm	Light	<=1.3	1.4-3.7	3.8-6.1	>=6.2
		Medium	<=2.5	2.6-5.0	5.1-7.5	>=7.6
		Heavy	<=3.6	3.7-6.2	6.3-8.8	>=8.9
Grassland (Lowland)	All	Light	<=2.1	2.2-4.9	5.0-7.9	8.0-14.9
		Medium	<=3.4	3.5-6.4	6.5-9.3	9.3-19.9
		Heavy	<=4.6	4.7-7.6	7.7-10.5	10.6-19.9

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## Explanatory Note: Cropping

High	Above average and associated with crop residues returns and regular OM inputs, including ley-arable rotations. Organic and conservation agricultural systems would appear in this group.	On target --- <b>Continue Rotational Monitoring</b>
Typical	Typical levels and is associated with crop residue returns and regular OM inputs, such as cover crops, compost or FYM.	
Low	Lower than average associated with intensive cropping & few organic matter inputs. Plan to add OM inputs and retain crop residues in the field. <b>Be aware: changes in SOM as a result of a change in practice can take a long time.</b>	Lower than average --- <b>Review</b>
Very Low	Very low associated with very intensive cropping and very few organic matter returns. Plan to regularly add OM inputs and retain crop residues in the field. <b>Be aware: changes in SOM as a result of a change in practice can take a long time.</b>	Very Low --- <b>Investigate</b>

## Explanatory Note: Grassland Fields [Lowland]

High	Above average for the climate and soil type. Well drained, near neutral pH, well managed returns through grazing and inputs. Be aware that high levels could suggest an accumulation of undecomposed SOM near the soil surface due to a deteriorating pH and drainage, for example due to compaction.	On target --- <b>Continue Rotational Monitoring</b>
Typical	Typical for the climate and soil type. Associated with well drained near neutral pH, well managed returns through grazing and inputs.	
Low	Lower than average for the climate and soil type, intensively managed or recently reseeded and/or low OM inputs. If the soil is compacted and regularly poached by livestock, then OM soil incorporation by biological activity will have been reduced.	Lower than average --- <b>Review</b>
Very Low	Very low for climate/soil type. Intensively managed or recently reseeded and/or very low OM inputs. If the soil is compact and regularly poached by livestock, then OM incorporation by biological activity will have been reduced. Add more OM inputs to build SOM levels.	Very Low --- <b>Investigate</b>

**Traffic light system:** These advisory categories only apply to mineral soils. The benchmarks **are not appropriate for peats/ organic soils, i.e. soils with >20% organic matter to 40cm depth.**

**In grassland situations only:** SOM results  $\geq 15\%$  on light &  $\geq 20\%$  on med/heavy soil types suggest accumulation at the soil surface often indicating poor biological activity due to soil acidity or wetness on mineral soils.

**Cropping & grassland:** There is no defined **critical SOM value to aim for**, feeding the soil with organic inputs is more important than reaching an absolute target value.

**Please note: A different set of benchmarks would also be required for upland grass and semi-natural systems.**

**OM** = Organic Matter, **SOM** = Soil Organic Matter

**Reference:** ADHB-BBRO Soil Biology & Soil Health Partnership protocol and benchmarking document July 2022. Rainfall categories for the SOM benchmarks in AHDB report:91140002 final report 02.pdf (windows.net) see pages 7-11, based on work originally in Defra project SP0310

## MICRO NUTRIENT REPORT

DATE **1st September 2025**  
 SAMPLES FROM **BANKS GROUP, SHEPLEY,  
 TOPSOIL 0-20CM, 18-08-2025**

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Reference: <b>72310/384179/25</b>	Field Name: <b>FLD 1 TS 0-20CM</b>	Result	(*)
Sand (2.00 - 0.063mm) %		23	
Silt (0.063 - 0.002mm) %		44	
Clay (< 0.002mm) %		33	
Textural Classification		Clay Loam	1

Reference: <b>72310/384180/25</b>	Field Name: <b>FLD 2 TS 0-20CM</b>	Result	(*)
Sand (2.00 - 0.063mm) %		27	
Silt (0.063 - 0.002mm) %		37	
Clay (< 0.002mm) %		36	
Textural Classification		Clay	1

Reference: <b>72310/384181/25</b>	Field Name: <b>FLD 3 TS 0-20CM</b>	Result	(*)
Sand (2.00 - 0.063mm) %		27	
Silt (0.063 - 0.002mm) %		36	
Clay (< 0.002mm) %		37	
Textural Classification		Clay	1

Reference: <b>72310/384182/25</b>	Field Name: <b>FLD 4 TS 0-20CM</b>	Result	(*)
Sand (2.00 - 0.063mm) %		18	
Silt (0.063 - 0.002mm) %		43	
Clay (< 0.002mm) %		39	
Textural Classification		Clay	1

Reference: <b>72310/384183/25</b>	Field Name: <b>FLD 4 DISTURBED</b>	Result	(*)
Sand (2.00 - 0.063mm) %		22	
Silt (0.063 - 0.002mm) %		41	
Clay (< 0.002mm) %		37	
Textural Classification		Clay	1

### Notes (\*)

- (1) In calcareous soils the sand, silt and clay sized fractions are likely to contain particles of carbonate which may result in the incorrect classification of soil type.

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Report reference 72310/25

## Fertiliser Recommendations

The phosphate and potash recommendations shown below, are those required to replace the offtake and maintain target soil indices. The larger recommended applications for soils below target index will allow the soil to build up to this target index over a number of years. Not applying fertiliser to soils which are above target index will allow the soil to run down over a number of years to the target index.

The recommendation should be increased or decreased where yields are substantially more or less than that specified. The amount to apply can be calculated using the expected yield and values for the offtake of phosphate and potash per tonne of yield given in the RB209 9th edition.

All recommendations are given for the mid-point of each Index.

Where a soil analysis value (as given by the laboratory) is close to the range of an adjacent Index, the recommendation may be reduced or increased slightly taking account of the recommendation given for the adjacent Index. Small adjustments of less than 10 kg/ha are generally not justified.

Efficient use of P and K is most likely to be achieved on soils that are well structured and enable good rooting.

For visual evaluation of soil structure (VESS), a score on 1 or 2 would be considered adequate.

Don't forget to deduct nutrients applied as organic manures.

For Nitrogen recommendations please refer to the RB209 9th edition or seek advice from an FACTS qualified adviser.

Target Indices:

Arable, Forage, Grassland and Potato Crops: P Index 2, K Index 2-

(In rotations where most crops are Autumn-sown, soils are in good condition and P is applied annually, high index 1 can be an adequate target.)

Vegetables and Bulbs: P Index 3, K Index 2+

(If vegetables are only grown occasionally as part of an arable rotation, it would be most economic to target index 2 for arable and forage crops.)

Fruit Vines and Hops: P Index 2, K Index 2, Mg Index 2

(Note: Cider apples respond to K Index 3, Mg Index 3)

A lime recommendation is usually for a 20cm depth of cultivated soil or a 15cm depth of grassland soil. Where soil is acid below 20 cm and soils are ploughed for arable crops, a proportionately larger quantity of lime should be applied. However, if more than 10 t/ha is needed, half should be deeply cultivated into the soil and ploughed down, with the remainder applied to the surface and worked in.

For established grassland or other situations where there is no, or only minimal soil cultivation, no more than 7.5 t/ha of lime should be applied in one application.

In these situations, applications of lime change the pH below the surface very slowly. Consequently, the underlying soil should not be allowed to become too acidic because this will affect the root growth and thus limit nutrient and water uptake, which will adversely affect yield.

For Vegetables and Bulbs:

There are instances where small amounts of phosphate fertiliser placed beneath seedlings or transplants can improve establishment, early growth and subsequent use of nutrients. The use of these techniques is encouraged but the amount in any starter close applied should be deducted from the total application required.

Some vegetable crops are susceptible to magnesium deficiency and may show yield responses to magnesium fertiliser on soils at Mg Index 0 and 1. Magnesium recommendations for all field vegetable crops are for 150kg MgO/ha at Index 0 and 100kg MgO/ha at Index 1.

There is evidence that Brassica crops respond to Sulphur. Where sulphur deficiency has been recognised or is expected in vegetable Brassicas, apply 50-75 kg/ha SO<sub>3</sub>. For other vegetable crops there have been no UK trials, but because of the decline in atmospheric sulphur emissions a yield response is possible. Where sulphur deficiency has been recognised or is expected in other vegetable crops, apply 25 kg/ha SO<sub>3</sub>. Sulphur should be applied as a sulphate-containing fertiliser at or soon after planting. Crops are most at risk of sulphur deficiency where they are grown on light sandy soils, soils with a low organic matter content, and in high rainfall areas.

Field Name / Ref / Soil Type	Last Crop / Next Crop	P2O5	K2O	MgO	Lime
<b>FLD 1 TS 0-20CM</b>	<b>Not Given / Other Crop</b>				<b>1.1</b>
<b>384179 / Medium</b>		Units/Acre			T/Ac
		Kg/Ha			Te/Ha
					<b>2.8</b>
<b>FLD 2 TS 0-20CM</b>	<b>Not Given / Other Crop</b>				<b>0</b>
<b>384180 / Heavy</b>		Units/Acre			T/Ac
		Kg/Ha			Te/Ha
					<b>0</b>
<b>FLD 3 TS 0-20CM</b>	<b>Not Given / Other Crop</b>				<b>0</b>
<b>384181 / Heavy</b>		Units/Acre			T/Ac
		Kg/Ha			Te/Ha
					<b>0</b>
<b>FLD 4 TS 0-20CM</b>	<b>Not Given / Other Crop</b>				<b>0</b>
<b>384182 / Heavy</b>		Units/Acre			T/Ac
		Kg/Ha			Te/Ha
					<b>0</b>

Fertiliser recommendations are based on **AHDB RB209 (Ninth Edition)**. If a nutrient is deficient and no recommendation is given, either no recommendation is given in RB209 or we have insufficient data to give a recommendation. Apply Lime to the nearest half Ton / Tonne. NRM is a UKAS accredited laboratory to ISO/IEC 17025

*Report continued.....*

DATE 1st September 2025  
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TOPSOIL 0-20CM, 18-08-2025

SAMPLED BY

Report reference 72310/25

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## Fertiliser Recommendations

<i>Field Name / Ref / Soil Type</i>	<i>Last Crop / Next Crop</i>	<i>P2O5</i>	<i>K2O</i>	<i>MgO</i>	<i>Lime</i>
<b>FLD 4 DISTURBED</b>	<b>Not Given / Other Crop</b>	<i>Units/Acre</i>			<i>T/Ac</i> <b>0</b>
<b>384183 / Heavy</b>		<i>Kg/Ha</i>			<i>Te/Ha</i> <b>0</b>

Fertiliser recommendations are based on **AHDB RB209 (Ninth Edition)**. If a nutrient is deficient and no recommendation is given, either no recommendation is given in RB209 or we have insufficient data to give a recommendation. Apply Lime to the nearest half Ton / Tonne.  
NRM is a UKAS accredited laboratory to ISO/IEC 17025

**ANALYTICAL REPORT**

<b>Report Number</b>	15652-25	J143	LDCL LTD
<b>Date Received</b>	26-AUG-2025		COWSLIP OFFICE
<b>Date Reported</b>	27-AUG-2025		FIMBER
<b>Project</b>	BANKS GROUP		DRIFFIELD
<b>Reference</b>	SHEPLEY		EAST YORKSHIRE
<b>Order Number</b>			YO25 9LY

Laboratory Reference		SOIL762777	SOIL762778							
Sample Reference		FIELD 2 STONES TS	FIELD 3 STONES TS							
Determinand	Unit	SOIL	SOIL							
Stones >50mm	% w/w	38.2	31.2							
Stones 20-50mm	% w/w	9.4	10.5							
Stones 2-20mm	% w/w	2.9	1.5							

**Notes**

Analysis Notes      The sample submitted was of adequate size to complete all analysis requested.  
                                  The results as reported relate only to the item(s) submitted for testing.  
                                  The results are presented on a dry matter basis unless otherwise stipulated.

Document Control      **This test report shall not be reproduced, except in full, without the written approval of the laboratory.**

Reported by      **Redacted**

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**ANALYTICAL REPORT**

<b>Report Number</b>	<b>15654-25</b>	<b>J143</b>	<b>LDCL LTD</b>
<b>Date Received</b>	<b>26-AUG-2025</b>		<b>COWSLIP OFFICE</b>
<b>Date Reported</b>	<b>01-SEP-2025</b>		<b>FIMBER</b>
<b>Project</b>	<b>BANKS GROUP</b>		<b>DRIFFIELD</b>
<b>Reference</b>	<b>SHEPLEY</b>		<b>EAST YORKSHIRE</b>
<b>Order Number</b>			<b>YO25 9LY</b>

Laboratory Reference		SOIL762782	SOIL762783							
Sample Reference		TP1 TS 0-28CM	TP2 TS 0-29CM							
Determinand	Unit	SOIL	SOIL							
Sand 2.00-0.063mm	% w/w	27	37							
Silt 0.063-0.002mm	% w/w	46	35							
Clay <0.002mm	% w/w	27	28							
Stones >50mm	% w/w	0.0	0.0							
Stones 20-50mm	% w/w	0.7	14.8							
Stones 2-20mm	% w/w	1.7	4.8							
Textural Class **		HCL	HCL							

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\*\* Please see the attached document for the definition of textural classes.

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## ADAS (UK) Textural Class Abbreviations

The texture classes are denoted by the following abbreviations:

<b>Class</b>	<b>Code</b>
Sand	S
Loamy sand	LS
Sandy loam	SL
Sandy Silt loam	SZL
Silt loam	ZL
Sandy clay loam	SCL
Clay loam	CL
Silt clay loam	ZCL
Clay	C
Silty clay	ZC
Sandy clay	SC

For the *sand*, *loamy sand*, *sandy loam* and *sandy silt loam* classes the predominant size of sand fraction may be indicated by the use of prefixes, thus:

- vf Very Fine (more than 2/3's of sand less than 0.106 mm)
- f Fine (more than 2/3's of sand less than 0.212 mm)
- c Coarse (more than 1/3 of sand greater than 0.6 mm)
- m Medium (less than 2/3's fine sand and less than 1/3 coarse sand).

The subdivisions of *clay loam* and *silty clay loam* classes according to clay content are indicated as follows:

- M medium (less than 27% clay)
- H heavy (27-35% clay)

Organic soils i.e. those with an organic matter greater than 10% will be preceded with a letter O.

Peaty soils i.e. those with an organic matter greater than 20% will be preceded with a letter P.

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<b>Date Reported</b>	<b>01-SEP-2025</b>		<b>FIMBER</b>
<b>Project</b>	<b>BANKS GROUP</b>		<b>DRIFFIELD</b>
<b>Reference</b>	<b>SHEPLEY</b>		<b>EAST YORKSHIRE</b>
<b>Order Number</b>			<b>YO25 9LY</b>

Laboratory Reference		SOIL762779	SOIL762780	SOIL762781						
Sample Reference		TP1 USS 28-50CM	TP1 LSS 50-120CM	TP2 USS 29-50CM						
Determinand	Unit	SOIL	SOIL	SOIL						
Sand 2.00-0.063mm	% w/w	23	18	55						
Silt 0.063-0.002mm	% w/w	55	56	28						
Clay <0.002mm	% w/w	22	26	17						
Textural Class **		MCL	MZCL	SL						

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