

Contact : JOLYON PRIDDING  
4RECYCLING LTD  
CONTROL HOUSE  
A1 BUSINESS PARK  
KNOTTINGLEY ROAD  
KNOTTINGLEY WF11 0BU  
Tel. : 01132 322400

**V537**

Please quote the above code for all enquiries

Client : BODWINA

Sample Matrix : Agricultural Soil

Laboratory Reference

Card Number 03353/25

Date Received 05-Mar-25

Date Reported 13-Mar-25

## SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details			Index			mg/l (Available)		
	No.	Name or O.S. Reference with Cropping Details	Soil pH	P	K	Mg	P	K	Mg
15160/25	1	<b>BODWINA 1</b> <i>No cropping details given</i>	6.1	1	2-	3	11.6	166	110
15161/25	2	<b>BODWINA 2</b> <i>No cropping details given</i>	6.0	2	2-	3	16.0	168	102
15162/25	3	<b>BODWINA 3</b> <i>No cropping details given</i>	6.1	1	2-	3	15.4	151	133
15163/25	4	<b>BODWINA 4</b> <i>No cropping details given</i>	6.1	2	2-	3	17.2	171	121
15164/25	5	<b>BODWINA 5</b> <i>No cropping details given</i>	6.0	1	2+	3	12.2	222	106

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 Sandy Cameron On behalf of NRM Date 13/03/25

Independently Analysed by **NRM**, part of the **Cawood Group**, Coopers Bridge, Braziers Lane, Bracknell, Berkshire RG42 6NS

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DATE 13th March 2025  
 SAMPLES FROM BODWINA

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Report reference 03353/25

### 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 (VSS), 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.

Field Name / Ref / Soil Type	Last Crop / Next Crop	P2O5	K2O	MgO	Lime (Arable)	(Grass)	
<b>BODWINA 1</b> 015160 /	<b>Not Given / Not Given</b>	Units/Acre			T/Ac	<b>1.7</b>	<b>0</b>
		Kg/Ha			Te/Ha	<b>4.2</b>	<b>0</b>
<b>BODWINA 2</b> 015161 /	<b>Not Given / Not Given</b>	Units/Acre			T/Ac	<b>2.0</b>	<b>0</b>
		Kg/Ha			Te/Ha	<b>4.9</b>	<b>0</b>
<b>BODWINA 3</b> 015162 /	<b>Not Given / Not Given</b>	Units/Acre			T/Ac	<b>1.7</b>	<b>0</b>
		Kg/Ha			Te/Ha	<b>4.2</b>	<b>0</b>
<b>BODWINA 4</b> 015163 /	<b>Not Given / Not Given</b>	Units/Acre			T/Ac	<b>1.7</b>	<b>0</b>
		Kg/Ha			Te/Ha	<b>4.2</b>	<b>0</b>
<b>BODWINA 5</b> 015164 /	<b>Not Given / Not Given</b>	Units/Acre			T/Ac	<b>2.0</b>	<b>0</b>
		Kg/Ha			Te/Ha	<b>4.9</b>	<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.....

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Client : BODWINA

Sample Matrix : Agricultural Soil

Laboratory Reference

Card Number 03354/25

Date Received 05-Mar-25

Date Reported 14-Mar-25

## SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details			Index			mg/l (Available)		
	No.	Name or O.S. Reference with Cropping Details	Soil pH	P	K	Mg	P	K	Mg
15166/25	1	<b>BODWINA 7</b> <i>No cropping details given</i>	<b>6.0</b>	<b>1</b>	<b>3</b>	<b>2</b>	<b>13.0</b>	<b>272</b>	<b>100</b>
15167/25	2	<b>BODWINA 8</b> <i>No cropping details given</i>	<b>6.3</b>	<b>1</b>	<b>2+</b>	<b>3</b>	<b>11.8</b>	<b>216</b>	<b>104</b>
15168/25	3	<b>BODWINA 9/10</b> <i>No cropping details given</i>	<b>6.1</b>	<b>1</b>	<b>2-</b>	<b>2</b>	<b>9.6</b>	<b>165</b>	<b>100</b>
15169/25	4	<b>BODWINA 11</b> <i>No cropping details given</i>	<b>6.1</b>	<b>1</b>	<b>2+</b>	<b>3</b>	<b>13.8</b>	<b>186</b>	<b>117</b>
15170/25	5	<b>BODWINA 12</b> <i>No cropping details given</i>	<b>6.2</b>	<b>1</b>	<b>2+</b>	<b>3</b>	<b>12.2</b>	<b>198</b>	<b>118</b>
15171/25	6	<b>BODWINA 13</b> <i>No cropping details given</i>	<b>6.3</b>	<b>2</b>	<b>3</b>	<b>3</b>	<b>15.8</b>	<b>286</b>	<b>115</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 .....*Joe Cherrie*..... On behalf of NRM Date *14/03/25*.....

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 SAMPLES FROM BODWINA

SAMPLED BY

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### 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.

Field Name / Ref / Soil Type	Last Crop / Next Crop	P2O5	K2O	MgO	Lime (Arable)	(Grass)
<b>BODWINA 7</b>	<b>Not Given / Not Given</b>				<b>2.0</b>	<b>0</b>
<b>015166 /</b>		Units/Acre			T/Ac	
		Kg/Ha			Te/Ha	
<b>BODWINA 8</b>	<b>Not Given / Not Given</b>				<b>1.1</b>	<b>0</b>
<b>015167 /</b>		Units/Acre			T/Ac	
		Kg/Ha			Te/Ha	
<b>BODWINA 9/10</b>	<b>Not Given / Not Given</b>				<b>1.7</b>	<b>0</b>
<b>015168 /</b>		Units/Acre			T/Ac	
		Kg/Ha			Te/Ha	
<b>BODWINA 11</b>	<b>Not Given / Not Given</b>				<b>1.7</b>	<b>0</b>
<b>015169 /</b>		Units/Acre			T/Ac	
		Kg/Ha			Te/Ha	
<b>BODWINA 12</b>	<b>Not Given / Not Given</b>				<b>1.4</b>	<b>0</b>
<b>015170 /</b>		Units/Acre			T/Ac	
		Kg/Ha			Te/Ha	

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Report continued.....



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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 (Arable) (Grass)</i>		
<b>BODWINA 13</b>	<b>Not Given / Not Given</b>	<i>Units/Acre</i>			<i>T/Ac</i>	<b>1.1</b>	<b>0</b>
<b>015171 /</b>		<i>Kg/Ha</i>			<i>Te/Ha</i>	<b>2.8</b>	<b>0</b>

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Client : BODWINA

Sample Matrix : Agricultural Soil

Laboratory Reference

Card Number 03352/25

Date Received 05-Mar-25

Date Reported 13-Mar-25

## SOIL ANALYSIS REPORT

Laboratory Sample Reference	Field Details			Index			mg/l (Available)		
	No.	Name or O.S. Reference with Cropping Details	Soil pH	P	K	Mg	P	K	Mg
15155/25	1	<b>BODWINA 14</b> <i>No cropping details given</i>	<b>6.6</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>12.6</b>	<b>75</b>	<b>58</b>
15156/25	2	<b>BODWINA 15</b> <i>No cropping details given</i>	<b>6.3</b>	<b>1</b>	<b>2-</b>	<b>2</b>	<b>11.2</b>	<b>135</b>	<b>72</b>
15157/25	3	<b>BODWINA 16</b> <i>No cropping details given</i>	<b>6.2</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>12.4</b>	<b>104</b>	<b>74</b>
15158/25	4	<b>BODWINA 17</b> <i>No cropping details given</i>	<b>6.2</b>	<b>1</b>	<b>1</b>	<b>3</b>	<b>15.4</b>	<b>83</b>	<b>124</b>
15159/25	5	<b>BODWINA 18</b> <i>No cropping details given</i>	<b>6.2</b>	<b>1</b>	<b>0</b>	<b>3</b>	<b>13.8</b>	<b>55</b>	<b>149</b>

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Released by Sandy Cameron On behalf of NRM Date 13/03/25

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(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)

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Field Name / Ref / Soil Type	Last Crop / Next Crop	P2O5	K2O	MgO	Lime (Arable)	(Grass)
<b>BODWINA 14</b>	<b>Not Given / Not Given</b>					
015155 /		Units/Acre			T/Ac	0
		Kg/Ha			Te/Ha	0
<b>BODWINA 15</b>	<b>Not Given / Not Given</b>					
015156 /		Units/Acre			T/Ac	1.1
		Kg/Ha			Te/Ha	2.8
<b>BODWINA 16</b>	<b>Not Given / Not Given</b>					
015157 /		Units/Acre			T/Ac	1.4
		Kg/Ha			Te/Ha	3.5
<b>BODWINA 17</b>	<b>Not Given / Not Given</b>					
015158 /		Units/Acre			T/Ac	1.4
		Kg/Ha			Te/Ha	3.5
<b>BODWINA 18</b>	<b>Not Given / Not Given</b>					
015159 /		Units/Acre			T/Ac	1.4
		Kg/Ha			Te/Ha	3.5

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