SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - FIELD 1

RICHARD EVANS
4 RECYCLING LTD
CONTROL HOUSE
A1 BUSINESS PARK
KNOTTINGLEY ROAD
KNOTTINGLEY WF11 0BU

V724

Please quote above code for all enquiries

HOWARD MORGAN
PENCELLI COURT
PENCELLI
BRECON
Block 1
SOIL

Date Received	31-OCT-2022
Date Reported	09-NOV-2022

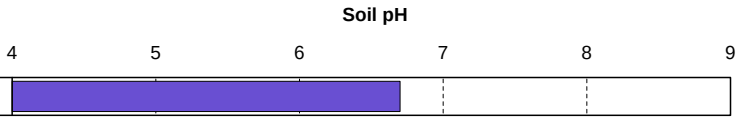
Laboratory References

Report Number	42424
Sample Number	588652

ANALYTICAL RESULTS *on 'dry matter' basis.*

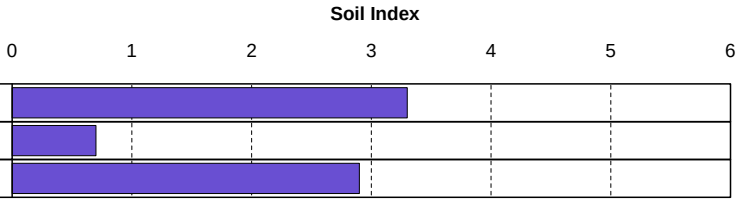
pH (1)

Determinand	Result
Soil pH	6.7



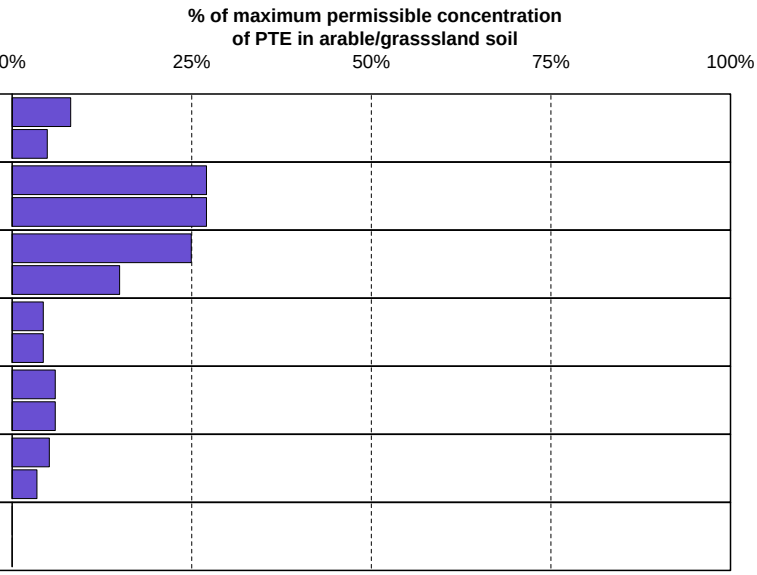
Soil Nutrients (1)

Determinand	Result mg/litre	Soil Index
Available Phosphorus	31.6	3
Available Potassium	48.0	0
Available Magnesium	98.4	2



Potentially Toxic Elements (2)

Determinand	Result mg/kg		Maximum mg/kg
Total Copper	11.0	Arable	135
		Grassland	225
Total Zinc	54.1	Arable	200
		Grassland	200
Total Nickel	18.7	Arable	75
		Grassland	125
Total Cadmium	0.13	Arable	3
		Grassland	3
Total Lead	18.0	Arable	300
		Grassland	300
Total Chromium	20.7	Arable	400
		Grassland	600
Total Mercury	<0.2	Arable	1
		Grassland	1.5



(1) Recommendations for liming and fertiliser should be obtained from Defra's Fertiliser Manual (RB209). The analytical methods used are as described in Defra's RB427.

(2) Concentration of Potentially Toxic Elements (PTE, commonly referred to as 'heavy metals') are in mg/kg dry soil. The maximum and the percentage of this maximum permissible concentration of PTE in soil are derived from the values in Defra's Code of Practice for Agricultural Use of Sewage Sludge (England & Wales) 1996. If applying organic manures to this soil it is important to ensure the soil is managed with a pH no less than 5.0, and that the PTE maximum values are not exceeded following the application. For soil where the pH value is less than 5.2, a FACTS Qualified Adviser should be consulted. Further details are provided in the Sludge Code.

Released by *Myles Nicholson* Date *09/11/22*

Independently Analysed by **NRM,** part of the **Cawood Group**, Coopers Bridge, Braziers Lane, Bracknell, Berkshire RG42 6NS
Tel +44 (0) 1344 886338 **Fax**: +44 (0) 1344 890972 **Email**: enquiries@nrm.uk.com **www**.nrm.uk.com

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SOIL

Date Received	31-OCT-2022
Date Reported	09-NOV-2022

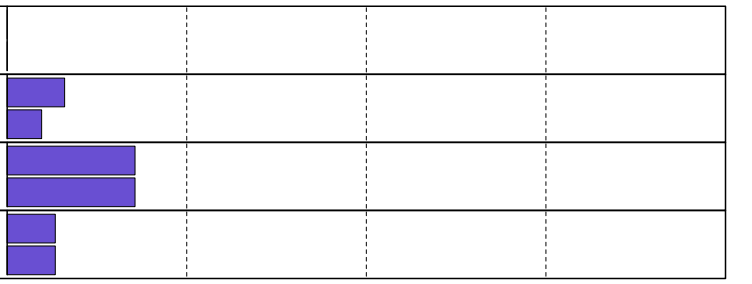
Laboratory References

Report Number	42424
Sample Number	588652

ANALYTICAL RESULTS *on 'dry matter' basis.*

Potentially Toxic Elements (2)

Determinand	Result mg/kg		Maximum mg/kg
Total Molybdenum	<1	Arable	4
		Grassland	4
Total Selenium	0.24	Arable	3
		Grassland	5
Total Arsenic	8.9	Arable	50
		Grassland	50
Fluoride	33.5	Arable	500
		Grassland	500



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SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - FIELD 2

RICHARD EVANS
4 RECYCLING LTD
CONTROL HOUSE
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KNOTTINGLEY ROAD
KNOTTINGLEY WF11 0BU

V724

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HOWARD MORGAN
PENCELLI COURT
PENCELLI
BRECON
Block 1
SOIL

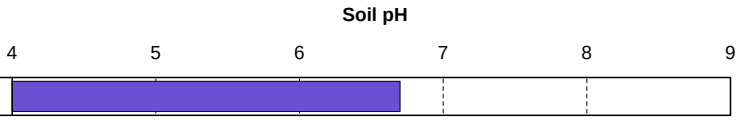
Date Received	31-OCT-2022
Date Reported	09-NOV-2022

Laboratory References

Report Number	42424
Sample Number	588653

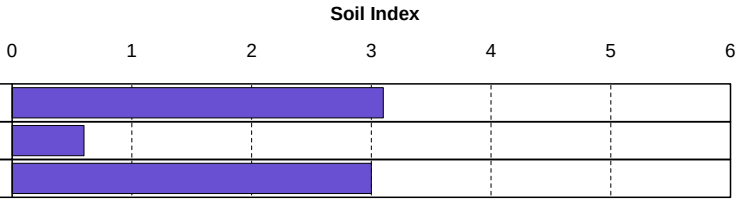
ANALYTICAL RESULTS *on 'dry matter' basis.*

pH (1)



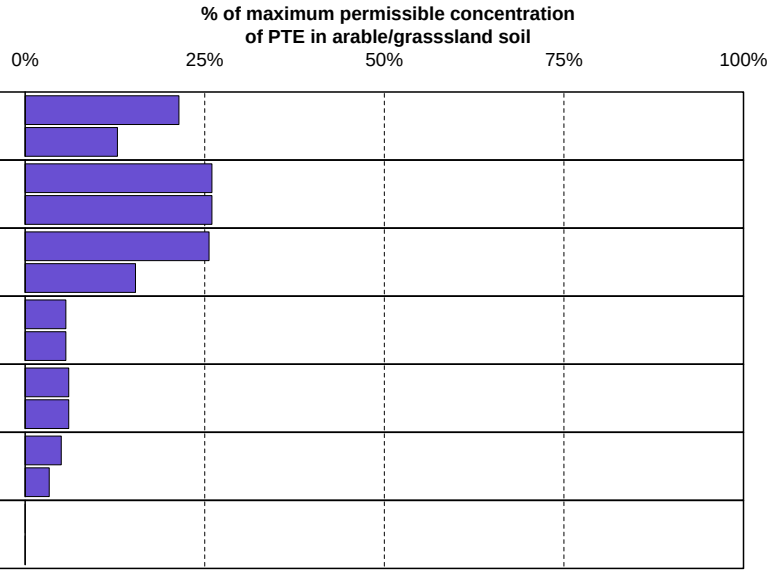
Determinand	Result
Soil pH	6.7

Soil Nutrients (1)



Determinand	Result mg/litre	Soil Index
Available Phosphorus	28.6	3
Available Potassium	42.3	0
Available Magnesium	104	3

Potentially Toxic Elements (2)



Determinand	Result mg/kg		Maximum mg/kg
Total Copper	28.9	Arable	135
		Grassland	225
Total Zinc	52.0	Arable	200
		Grassland	200
Total Nickel	19.2	Arable	75
		Grassland	125
Total Cadmium	0.17	Arable	3
		Grassland	3
Total Lead	18.2	Arable	300
		Grassland	300
Total Chromium	20.1	Arable	400
		Grassland	600
Total Mercury	<0.2	Arable	1
		Grassland	1.5

(1) Recommendations for liming and fertiliser should be obtained from Defra's Fertiliser Manual (RB209). The analytical methods used are as described in Defra's RB427.

(2) Concentration of Potentially Toxic Elements (PTE, commonly referred to as 'heavy metals') are in mg/kg dry soil. The maximum and the percentage of this maximum permissible concentration of PTE in soil are derived from the values in Defra's Code of Practice for Agricultural Use of Sewage Sludge (England & Wales) 1996. If applying organic manures to this soil it is important to ensure the soil is managed with a pH no less than 5.0, and that the PTE maximum values are not exceeded following the application. For soil where the pH value is less than 5.2, a FACTS Qualified Adviser should be consulted. Further details are provided in the Sludge Code.

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SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - FIELD 2

RICHARD EVANS
4 RECYCLING LTD
CONTROL HOUSE
A1 BUSINESS PARK
KNOTTINGLEY ROAD
KNOTTINGLEY WF11 0BU

V724

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HOWARD MORGAN
PENCELLI COURT
PENCELLI
BRECON
Block 1
SOIL

Date Received	31-OCT-2022
Date Reported	09-NOV-2022

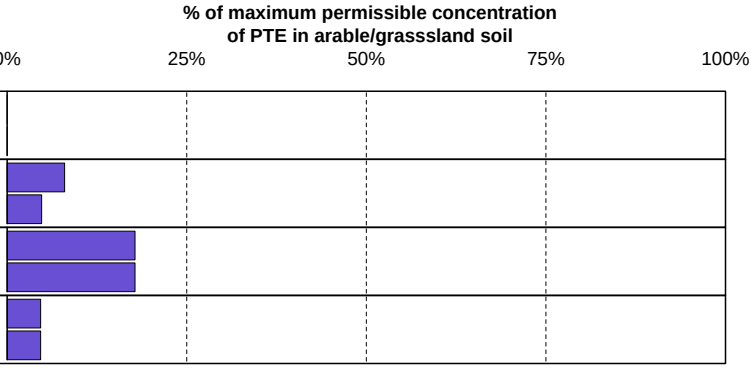
Laboratory References

Report Number	42424
Sample Number	588653

ANALYTICAL RESULTS *on 'dry matter' basis.*

Potentially Toxic Elements (2)

Determinand	Result mg/kg		Maximum mg/kg
Total Molybdenum	<1	Arable	4
		Grassland	4
Total Selenium	0.24	Arable	3
		Grassland	5
Total Arsenic	8.9	Arable	50
		Grassland	50
Fluoride	23.3	Arable	500
		Grassland	500



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(2) Concentration of Potentially Toxic Elements (PTE, commonly referred to as 'heavy metals') are in mg/kg dry soil. The maximum and the percentage of this maximum permissible concentration of PTE in soil are derived from the values in Defra's Code of Practice for Agricultural Use of Sewage Sludge (England & Wales) 1996. If applying organic manures to this soil it is important to ensure the soil is managed with a pH no less than 5.0, and that the PTE maximum values are not exceeded following the application. For soil where the pH value is less than 5.2, a FACTS Qualified Adviser should be consulted. Further details are provided in the Sludge Code.

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SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - FIELD 3

RICHARD EVANS
4 RECYCLING LTD
CONTROL HOUSE
A1 BUSINESS PARK
KNOTTINGLEY ROAD
KNOTTINGLEY WF11 0BU

V724

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HOWARD MORGAN
PENCELLI COURT
PENCELLI
BRECON
Block 1
SOIL

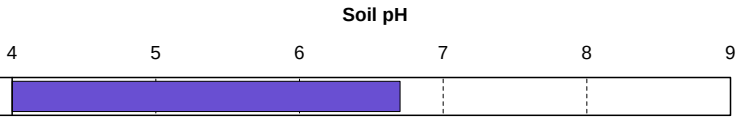
Date Received	31-OCT-2022
Date Reported	09-NOV-2022

Laboratory References

Report Number	42424
Sample Number	588654

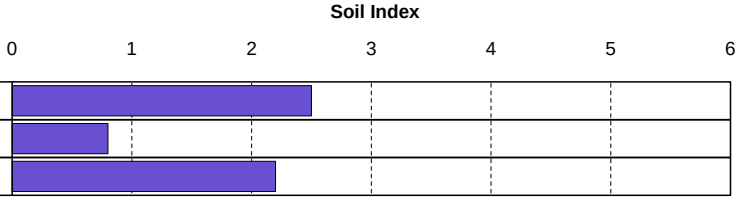
ANALYTICAL RESULTS *on 'dry matter' basis.*

pH (1)



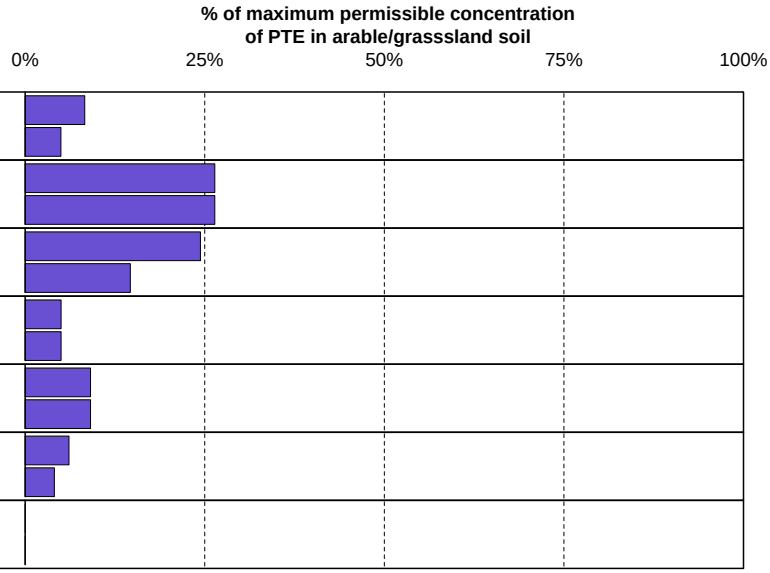
Determinand	Result
Soil pH	6.7

Soil Nutrients (1)



Determinand	Result mg/litre	Soil Index
Available Phosphorus	20.6	2
Available Potassium	52.3	0
Available Magnesium	63.0	2

Potentially Toxic Elements (2)



Determinand	Result mg/kg		Maximum mg/kg
Total Copper	11.2	Arable	135
		Grassland	225
Total Zinc	52.8	Arable	200
		Grassland	200
Total Nickel	18.3	Arable	75
		Grassland	125
Total Cadmium	0.15	Arable	3
		Grassland	3
Total Lead	27.3	Arable	300
		Grassland	300
Total Chromium	24.4	Arable	400
		Grassland	600
Total Mercury	<0.2	Arable	1
		Grassland	1.5

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SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - FIELD 3

RICHARD EVANS
4 RECYCLING LTD
CONTROL HOUSE
A1 BUSINESS PARK
KNOTTINGLEY ROAD
KNOTTINGLEY WF11 0BU

V724

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HOWARD MORGAN
PENCELLI COURT
PENCELLI
BRECON
Block 1
SOIL

Date Received	31-OCT-2022
Date Reported	09-NOV-2022

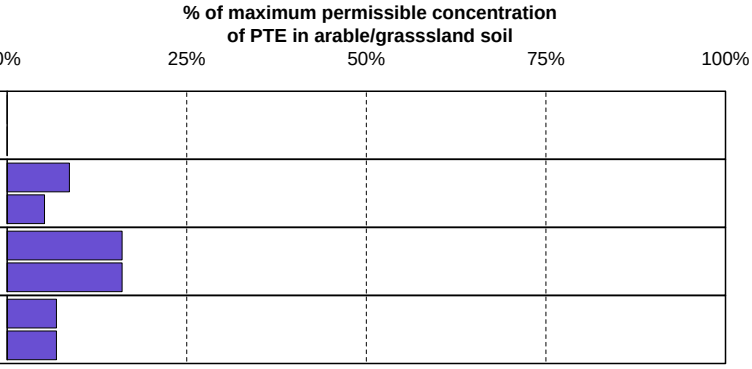
Laboratory References

Report Number	42424
Sample Number	588654

ANALYTICAL RESULTS *on 'dry matter' basis.*

Potentially Toxic Elements (2)

Determinand	Result mg/kg		Maximum mg/kg
Total Molybdenum	<1	Arable	4
		Grassland	4
Total Selenium	0.26	Arable	3
		Grassland	5
Total Arsenic	8.0	Arable	50
		Grassland	50
Fluoride	34.3	Arable	500
		Grassland	500



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SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - FIELD 4

RICHARD EVANS
4 RECYCLING LTD
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KNOTTINGLEY ROAD
KNOTTINGLEY WF11 0BU

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HOWARD MORGAN
PENCELLI COURT
PENCELLI
BRECON
Block 1
SOIL

Date Received	31-OCT-2022
Date Reported	09-NOV-2022

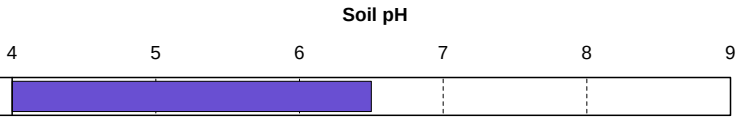
Laboratory References

Report Number	42424
Sample Number	588655

ANALYTICAL RESULTS *on 'dry matter' basis.*

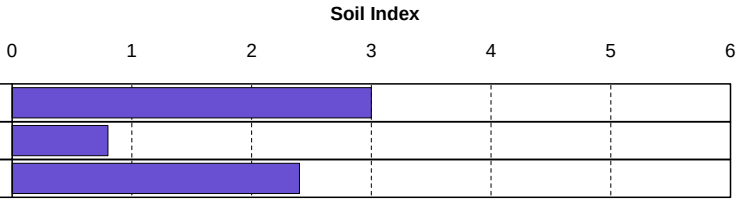
pH (1)

Determinand	Result
Soil pH	6.5



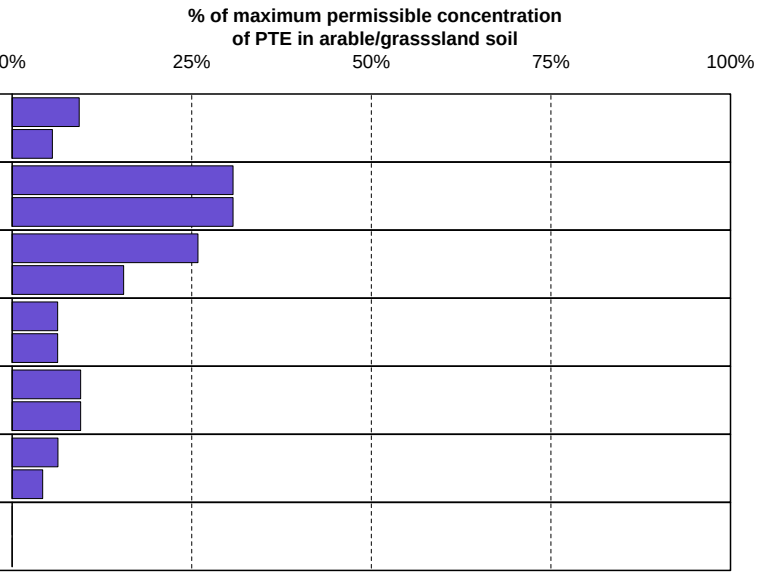
Soil Nutrients (1)

Determinand	Result mg/litre	Soil Index
Available Phosphorus	27.2	3
Available Potassium	50.3	0
Available Magnesium	71.8	2



Potentially Toxic Elements (2)

Determinand	Result mg/kg		Maximum mg/kg
Total Copper	12.6	Arable	135
		Grassland	225
Total Zinc	61.5	Arable	200
		Grassland	200
Total Nickel	19.4	Arable	75
		Grassland	125
Total Cadmium	0.19	Arable	3
		Grassland	3
Total Lead	28.6	Arable	300
		Grassland	300
Total Chromium	25.5	Arable	400
		Grassland	600
Total Mercury	<0.2	Arable	1
		Grassland	1.5



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SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - FIELD 4

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4 RECYCLING LTD
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KNOTTINGLEY WF11 0BU

V724

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HOWARD MORGAN
PENCELLI COURT
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BRECON
Block 1
SOIL

Date Received	31-OCT-2022
Date Reported	09-NOV-2022

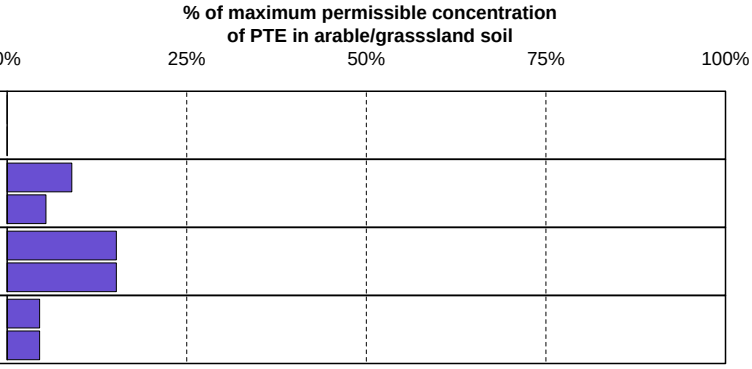
Laboratory References

Report Number	42424
Sample Number	588655

ANALYTICAL RESULTS *on 'dry matter' basis.*

Potentially Toxic Elements (2)

Determinand	Result mg/kg		Maximum mg/kg
Total Molybdenum	<1	Arable	4
		Grassland	4
Total Selenium	0.27	Arable	3
		Grassland	5
Total Arsenic	7.6	Arable	50
		Grassland	50
Fluoride	22.6	Arable	500
		Grassland	500



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SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - 1

MATTHEW CONOLLY
4R GROUP
12C NEWENT BUS PARK
GLOUCESTER STREET
NEWENT
GLOUCESTERSHIRE GL18 1DZ

V293

Please quote above code for all enquiries

HOWARD MORGAN
PENCELLI COURT 2
Block 2

SOIL

Date Received	29-NOV-2024
Date Reported	05-DEC-2024

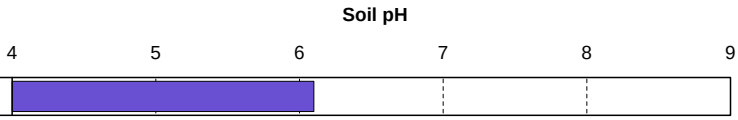
Laboratory References

Report Number	67754
Sample Number	726782

ANALYTICAL RESULTS *on 'dry matter' basis.*

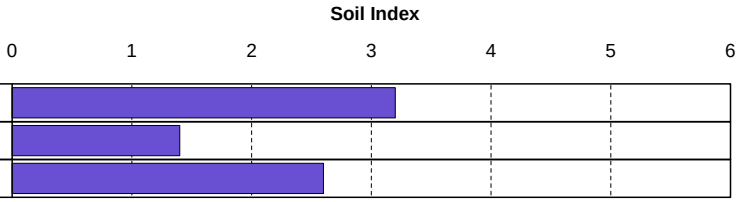
pH (1)

Determinand	Result
Soil pH	6.1



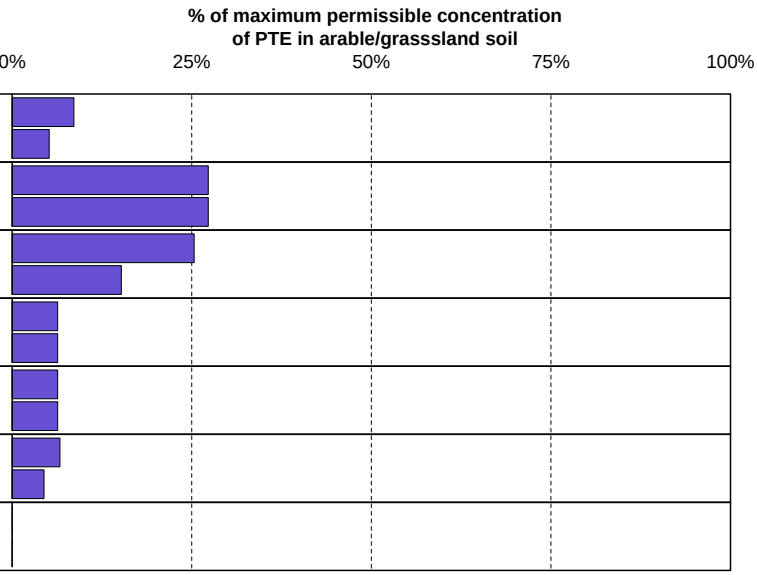
Soil Nutrients (1)

Determinand	Result mg/litre	Soil Index
Available Phosphorus	31.4	3
Available Potassium	89.4	1
Available Magnesium	81.2	2



Potentially Toxic Elements (2)

Determinand	Result mg/kg		Maximum mg/kg
Total Copper	11.6	Arable	135
		Grassland	225
Total Zinc	54.6	Arable	200
		Grassland	200
Total Nickel	19.0	Arable	75
		Grassland	125
Total Cadmium	0.19	Arable	3
		Grassland	3
Total Lead	19.0	Arable	300
		Grassland	300
Total Chromium	26.6	Arable	400
		Grassland	600
Total Mercury	<0.2	Arable	1
		Grassland	1.5



(1) Recommendations for liming and fertiliser should be obtained from Defra's Fertiliser Manual (RB209). The analytical methods used are as described in Defra's RB427.

(2) Concentration of Potentially Toxic Elements (PTE, commonly referred to as 'heavy metals') are in mg/kg dry soil. The maximum and the percentage of this maximum permissible concentration of PTE in soil are derived from the values in Defra's Code of Practice for Agricultural Use of Sewage Sludge (England & Wales) 1996. If applying organic manures to this soil it is important to ensure the soil is managed with a pH no less than 5.0, and that the PTE maximum values are not exceeded following the application. For soil where the pH value is less than 5.2, a FACTS Qualified Adviser should be consulted. Further details are provided in the Sludge Code.

Released by *Teresa Clyne* Date *05/12/24*

Independently Analysed by **NRM,** part of the **Cawood Group**, Coopers Bridge, Braziers Lane, Bracknell, Berkshire RG42 6NS
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SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - 2

MATTHEW CONOLLY
4R GROUP
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GLOUCESTER STREET
NEWENT
GLOUCESTERSHIRE GL18 1DZ

V293

Please quote above code for all enquiries

HOWARD MORGAN
PENCELLI COURT 2
Block 2

SOIL

Date Received	29-NOV-2024
Date Reported	05-DEC-2024

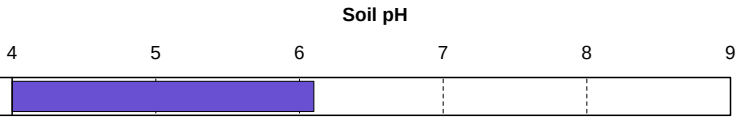
Laboratory References

Report Number	67754
Sample Number	726783

ANALYTICAL RESULTS *on 'dry matter' basis.*

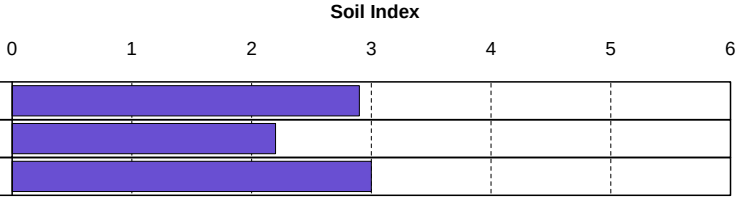
pH (1)

Determinand	Result
Soil pH	6.1



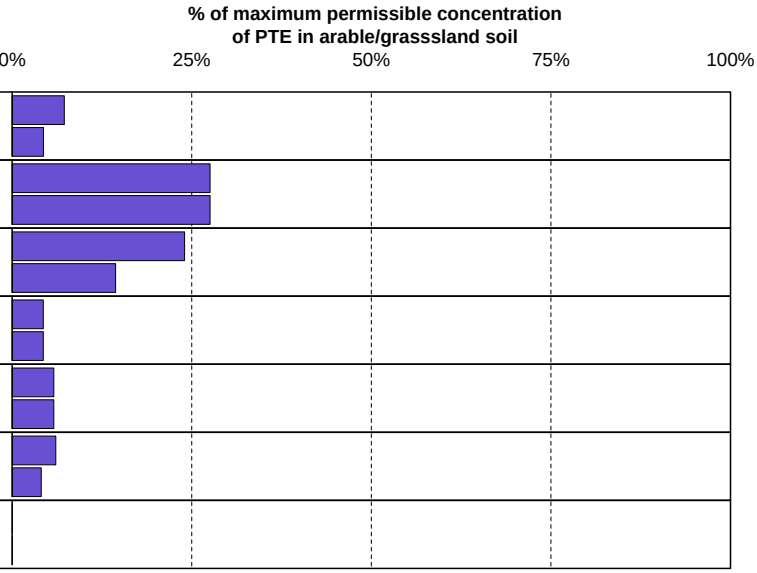
Soil Nutrients (1)

Determinand	Result mg/litre	Soil Index
Available Phosphorus	25.2	2
Available Potassium	145	2-
Available Magnesium	103	3



Potentially Toxic Elements (2)

Determinand	Result mg/kg		Maximum mg/kg
Total Copper	9.8	Arable	135
		Grassland	225
Total Zinc	55.1	Arable	200
		Grassland	200
Total Nickel	18.0	Arable	75
		Grassland	125
Total Cadmium	0.13	Arable	3
		Grassland	3
Total Lead	17.4	Arable	300
		Grassland	300
Total Chromium	24.3	Arable	400
		Grassland	600
Total Mercury	<0.2	Arable	1
		Grassland	1.5



(1) Recommendations for liming and fertiliser should be obtained from Defra's Fertiliser Manual (RB209). The analytical methods used are as described in Defra's RB427.

(2) Concentration of Potentially Toxic Elements (PTE, commonly referred to as 'heavy metals') are in mg/kg dry soil. The maximum and the percentage of this maximum permissible concentration of PTE in soil are derived from the values in Defra's Code of Practice for Agricultural Use of Sewage Sludge (England & Wales) 1996. If applying organic manures to this soil it is important to ensure the soil is managed with a pH no less than 5.0, and that the PTE maximum values are not exceeded following the application. For soil where the pH value is less than 5.2, a FACTS Qualified Adviser should be consulted. Further details are provided in the Sludge Code.

Released by *Teresa Clyne* Date *05/12/24*

Independently Analysed by **NRM,** part of the **Cawood Group**, Coopers Bridge, Braziers Lane, Bracknell, Berkshire RG42 6NS
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SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - 7216 B

MATTHEW CONOLLY
4R GROUP
12C NEWENT BUS PARK
GLOUCESTER STREET
NEWENT
GLOUCESTERSHIRE GL18 1DZ

V293

Please quote above code for all enquiries

HUW MORGAN
PWLL Y HWYAID
LD3 7YS

SOIL

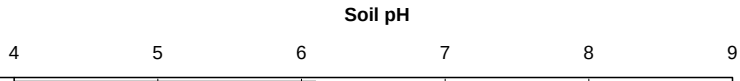
Date Received	29-NOV-2024
Date Reported	06-DEC-2024

Laboratory References

Report Number	67753
Sample Number	726779

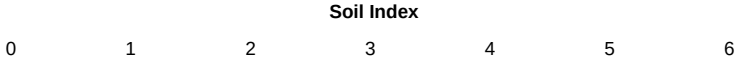
ANALYTICAL RESULTS *on 'dry matter' basis.*

pH (1)



Determinand	Result
Soil pH	6.1

Soil Nutrients (1)



Determinand	Result mg/litre	Soil Index
Available Phosphorus	19.8	2
Available Potassium	87.8	1
Available Magnesium	69.7	2

Potentially Toxic Elements (2)

Determinand	Result mg/kg		Maximum mg/kg
Total Copper	8.8	Arable	135
		Grassland	225
Total Zinc	54.8	Arable	200
		Grassland	200
Total Nickel	11.4	Arable	75
		Grassland	125
Total Cadmium	0.27	Arable	3
		Grassland	3
Total Lead	22.4	Arable	300
		Grassland	300
Total Chromium	16.6	Arable	400
		Grassland	600
Total Mercury	<0.2	Arable	1
		Grassland	1.5

(1) Recommendations for liming and fertiliser should be obtained from Defra's Fertiliser Manual (RB209). The analytical methods used are as described in Defra's RB427.

(2) Concentration of Potentially Toxic Elements (PTE, commonly referred to as 'heavy metals') are in mg/kg dry soil. The maximum and the percentage of this maximum permissible concentration of PTE in soil are derived from the values in Defra's Code of Practice for Agricultural Use of Sewage Sludge (England & Wales) 1996. If applying organic manures to this soil it is important to ensure the soil is managed with a pH no less than 5.0, and that the PTE maximum values are not exceeded following the application. For soil where the pH value is less than 5.2, a FACTS Qualified Adviser should be consulted. Further details are provided in the Sludge Code.

Released by *Teresa Clyne* Date *06/12/24*

Independently Analysed by **NRM,** part of the **Cawood Group**, Coopers Bridge, Braziers Lane, Bracknell, Berkshire RG42 6NS
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SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - CAE GWAR

MATTHEW CONOLLY
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12C NEWENT BUS PARK
GLOUCESTER STREET
NEWENT
GLOUCESTERSHIRE GL18 1DZ

V293

Please quote above code for all enquiries

HUW MORGAN
PWLL Y HWYAID
LD3 7YS

SOIL

Date Received	29-NOV-2024
Date Reported	06-DEC-2024

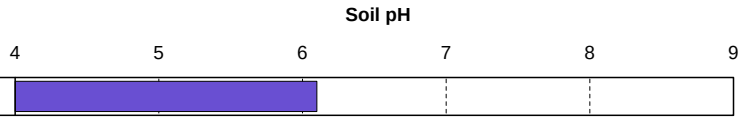
Laboratory References

Report Number	67753
Sample Number	726780

ANALYTICAL RESULTS *on 'dry matter' basis.*

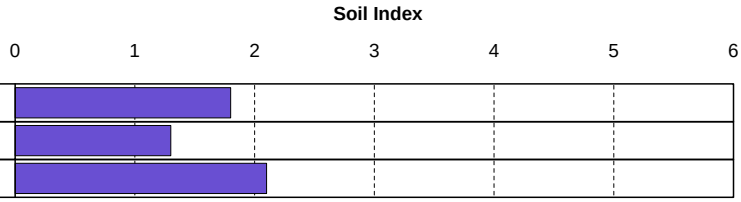
pH (1)

Determinand	Result
Soil pH	6.1



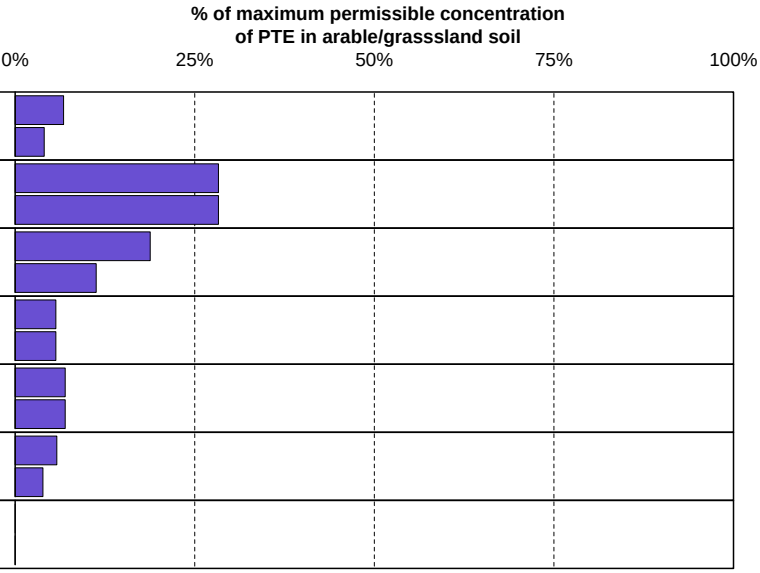
Soil Nutrients (1)

Determinand	Result mg/litre	Soil Index
Available Phosphorus	15.0	1
Available Potassium	78.9	1
Available Magnesium	57.3	2



Potentially Toxic Elements (2)

Determinand	Result mg/kg		Maximum mg/kg
Total Copper	9.1	Arable	135
		Grassland	225
Total Zinc	56.6	Arable	200
		Grassland	200
Total Nickel	14.1	Arable	75
		Grassland	125
Total Cadmium	0.17	Arable	3
		Grassland	3
Total Lead	20.9	Arable	300
		Grassland	300
Total Chromium	23.2	Arable	400
		Grassland	600
Total Mercury	<0.2	Arable	1
		Grassland	1.5



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Released by *Teresa Clyne* Date *06/12/24*

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SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - CAE DERWIN

MATTHEW CONOLLY
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NEWENT
GLOUCESTERSHIRE GL18 1DZ

V293

Please quote above code for all enquiries

HUW MORGAN
PWLL Y HWYAID
LD3 7YS

SOIL

Date Received	29-NOV-2024
Date Reported	06-DEC-2024

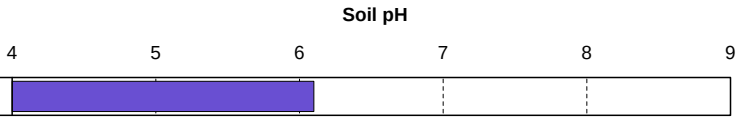
Laboratory References

Report Number	67753
Sample Number	726781

ANALYTICAL RESULTS *on 'dry matter' basis.*

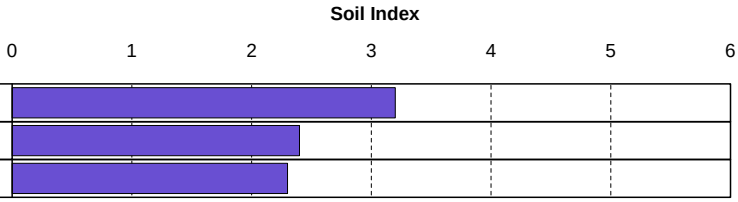
pH (1)

Determinand	Result
Soil pH	6.1



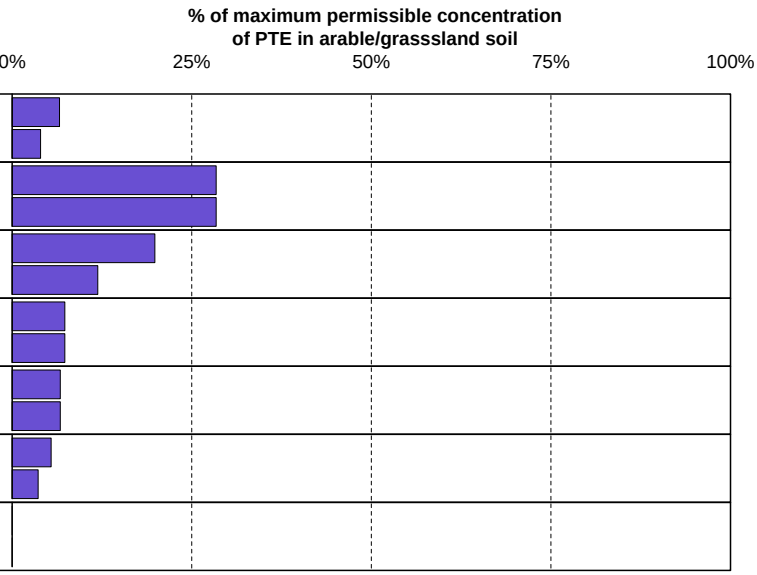
Soil Nutrients (1)

Determinand	Result mg/litre	Soil Index
Available Phosphorus	30.0	3
Available Potassium	174	2-
Available Magnesium	70.1	2



Potentially Toxic Elements (2)

Determinand	Result mg/kg		Maximum mg/kg
Total Copper	8.9	Arable	135
		Grassland	225
Total Zinc	56.8	Arable	200
		Grassland	200
Total Nickel	14.9	Arable	75
		Grassland	125
Total Cadmium	0.22	Arable	3
		Grassland	3
Total Lead	20.1	Arable	300
		Grassland	300
Total Chromium	21.7	Arable	400
		Grassland	600
Total Mercury	<0.2	Arable	1
		Grassland	1.5



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(2) Concentration of Potentially Toxic Elements (PTE, commonly referred to as 'heavy metals') are in mg/kg dry soil. The maximum and the percentage of this maximum permissible concentration of PTE in soil are derived from the values in Defra's Code of Practice for Agricultural Use of Sewage Sludge (England & Wales) 1996. If applying organic manures to this soil it is important to ensure the soil is managed with a pH no less than 5.0, and that the PTE maximum values are not exceeded following the application. For soil where the pH value is less than 5.2, a FACTS Qualified Adviser should be consulted. Further details are provided in the Sludge Code.

Released by Teresa Clyne Date 06/12/24

Independently Analysed by **NRM,** part of the **Cawood Group**, Coopers Bridge, Braziers Lane, Bracknell, Berkshire RG42 6NS
Tel +44 (0) 1344 886338 **Fax**: +44 (0) 1344 890972 **Email**: enquiries@nrm.uk.com **www**.nrm.uk.com

Accreditation and method details

NRM is a UKAS-accredited testing laboratory (No 2334), accredited to BS EN ISO 17025:2005. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (refer joint ISO-ILAC-IAF communique dated April 2017). http://ilac.org/?ddownload=120917

NRM is accredited for particular determinands in specific matrices as set out in the laboratory's current UKAS schedule of accreditation https://www.ukas.com/wp-content/uploads/schedule_uploads/00002/2334Testing -Multiple.pdf

Accreditation applies to the following parameters in this report and is applicable to SOIL samples only. All other tests within this report are unaccredited.

Test	Analysis SOP	Method Description
Fluoride	JAS-487	Sulphuric acid extraction (1:10 ratio) and determination by ion selective electrode
Arsenic	JAS-510 / JAS-300	Aqua regia digest on hot block and determination by ICP-OES
Barium		
Beryllium		
Cadmium		
Chromium		
Cobalt		
Copper		
Lead		
Molybdenum		
Mercury		
Nickel		
Vanadium		
Zinc		
Selenium	JAS-510 / JAS-455	Aqua regia digest on hot block and determination by AFS

Analysis Notes

Analysis is carried out on the air-dried (<30°C) and ground sample.

The results as reported relate only to the item(s) submitted for testing.

The results are presented on a dry matter basis.

Indices are derived solely from the numerical value and test result without reference to measurement uncertainty.

Document Control

This test report shall not be reproduced, except in full, without the written approval of the laboratory.
We cannot offer interpretation or opinions for results.

Sampling information

BS ISO 18512:2007 (Soil quality – Guidance on long and short-term storage of soil samples) states that for pH the period of stability and therefore holding time for a wet or 'fresh' soil sample is one week from sampling. Other determinants in the fresh sample may be considered stable for up to a month. Once the sample has been dried the sample may then be considered stable for up to 3 years. No records are maintained by NRM on date sampled or date dried so all samples within this report are considered not to be meeting the requirements of this BS / ISO. Consequently, all pH results given are those of the as-received sample and may not reflect the pH value of the sample when taken.

END OF REPORT

Contact : ELLIE GARSIDE
4 RECYCLING LTD
CONTROL HOUSE
A1 BUSINESS PARK
KNOTTINGLEY ROAD
KNOTTINGLEY WF11 0BU
Tel. : 07506 672 839

V724

Please quote the above code for all enquiries

Client : A PHILLIPS
TYLEBRITHOS FARM
CANTREF
BRECON
LD3 8LR

Sample Matrix : Agricultural Soil

Laboratory Reference
Card Number 13212/24

Date Received 28-Oct-24
Date Reported 31-Oct-24

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
56518/24	5	**11** *No cropping details given*	**6.6**	**2**	**1**	**2**	**18.6**	**63**	**74**
56519/24	6	**12** *No cropping details given*	**6.0**	**3**	**0**	**2**	**42.8**	**54**	**62**

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 31/10/24

Independently Analysed by **NRM,** part of the **Cawood Group**, Coopers Bridge, Braziers Lane, Bracknell, Berkshire RG42 6NS
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DATE 31st October 2024
SAMPLES FROM A PHILLIPS, TYLEBRITHOS FARM, CANTREF, BRECON

SAMPLED BY

Report reference 13212/24

ELLIE GARSIDE
4 RECYCLING LTD
CONTROL HOUSE
A1 BUSINESS PARK
KNOTTINGLEY ROAD
KNOTTINGLEY WF11 0BU
Tel: 07506 672 839
Fax:

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)*
6A	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **2.3**	**0.6**
056514 /		*Kg/Ha*				*Te/Ha* **5.6**	**1.6**

Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
6B	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **2.5**	**0.8**
056515 /		*Kg/Ha*				*Te/Ha* **6.3**	**2.1**

Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
8	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **2.0**	**0**
056516 /		*Kg/Ha*				*Te/Ha* **4.9**	**0**

Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
10	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **1.1**	**0**
056517 /		*Kg/Ha*				*Te/Ha* **2.8**	**0**

Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
11	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **0**	**0**
056518 /		*Kg/Ha*				*Te/Ha* **0**	**0**

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 31st October 2024
SAMPLES FROM A PHILLIPS, TYLEBRITHOS FARM, CANTREF, BRECON

SAMPLED BY

Report reference 13212/24

ELLIE GARSIDE
4 RECYCLING LTD
CONTROL HOUSE
A1 BUSINESS PARK
KNOTTINGLEY ROAD
KNOTTINGLEY WF11 0BU
Tel: 07506 672 839
Fax:

Fertiliser Recommendations

Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
12	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **2.0**	**0**
056519 /		*Kg/Ha*				*Te/Ha* **4.9**	**0**

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

Contact : ELLIE GARSIDE
4 RECYCLING LTD
CONTROL HOUSE
A1 BUSINESS PARK
KNOTTINGLEY ROAD
KNOTTINGLEY WF11 0BU
Tel. : 07506 672 839

V724

Please quote the above code for all enquiries

Client : A PHILLIPS
TYLEBRITHOS FARM
CANTREF
BRECON
LD3 8LR

Sample Matrix : Agricultural Soil

Laboratory Reference
Card Number 13209/24

Date Received 28-Oct-24
Date Reported 31-Oct-24

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
56499/24	2	**14** *No cropping details given*	**6.0**	**1**	**2-**	**1**	**12.0**	**146**	**41**
56500/24	3	**15A** *No cropping details given*	**6.2**	**2**	**1**	**2**	**16.2**	**98**	**53**
56502/24	5	**17** *No cropping details given*	**6.7**	**0**	**1**	**1**	**9.2**	**90**	**40**
56503/24	6	**18** *No cropping details given*	**7.0**	**2**	**1**	**2**	**17.6**	**74**	**52**

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 *31/10/24*

Independently Analysed by **NRM,** part of the **Cawood Group**, Coopers Bridge, Braziers Lane, Bracknell, Berkshire RG42 6NS
Tel +44 (0) 1344 886338 **Fax**: +44 (0) 1344 890972 **Email**: enquiries@nrm.uk.com **www**.nrm.uk.com

DATE 31st October 2024
SAMPLES FROM A PHILLIPS, TYLEBRITHOS FARM, CANTREF, BRECON

SAMPLED BY

Report reference 13209/24

ELLIE GARSIDE
4 RECYCLING LTD
CONTROL HOUSE
A1 BUSINESS PARK
KNOTTINGLEY ROAD
KNOTTINGLEY WF11 0BU
Tel: 07506 672 839
Fax:

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)*
13	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **2.5**	**0.8**
056498 /		*Kg/Ha*				*Te/Ha* **6.3**	**2.1**

Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
14	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **2.0**	**0**
056499 /		*Kg/Ha*				*Te/Ha* **4.9**	**0**

Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
15A	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **1.4**	**0**
056500 /		*Kg/Ha*				*Te/Ha* **3.5**	**0**

Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
15B	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **1.1**	**0**
056501 /		*Kg/Ha*				*Te/Ha* **2.8**	**0**

Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
17	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **0**	**0**
056502 /		*Kg/Ha*				*Te/Ha* **0**	**0**

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 31st October 2024
SAMPLES FROM A PHILLIPS, TYLEBRITHOS FARM, CANTREF, BRECON

SAMPLED BY

Report reference 13209/24

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KNOTTINGLEY ROAD
KNOTTINGLEY WF11 0BU
Tel: 07506 672 839
Fax:

Fertiliser Recommendations

Field Name / Ref / Soil Type	*Last Crop / Next Crop*		*P2O5*	*K2O*	*MgO*	*Lime (Arable)*	*(Grass)*
18	**Not Given / Not Given**	*Units/Acre*				*T/Ac* **0**	**0**
056503 /		*Kg/Ha*				*Te/Ha* **0**	**0**

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SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - FIELD 2

RICHARD EVANS
4 RECYCLING LTD
CONTROL HOUSE
A1 BUSINESS PARK
KNOTTINGLEY ROAD
KNOTTINGLEY WF11 0BU

V724

Please quote above code for all enquiries

PHILLIPS
TYLEBRITHOS FARM
CANTREF
BRECON
LD3 8LR
SOIL

Date Received	31-OCT-2022
Date Reported	09-NOV-2022

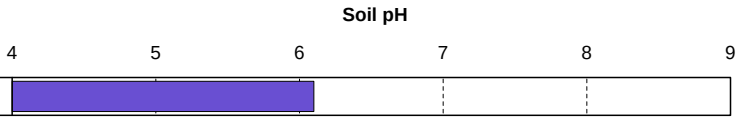
Laboratory References

Report Number	42468
Sample Number	588694

ANALYTICAL RESULTS *on 'dry matter' basis.*

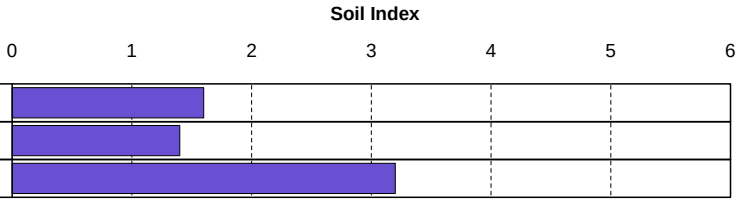
pH (1)

Determinand	Result
Soil pH	6.1



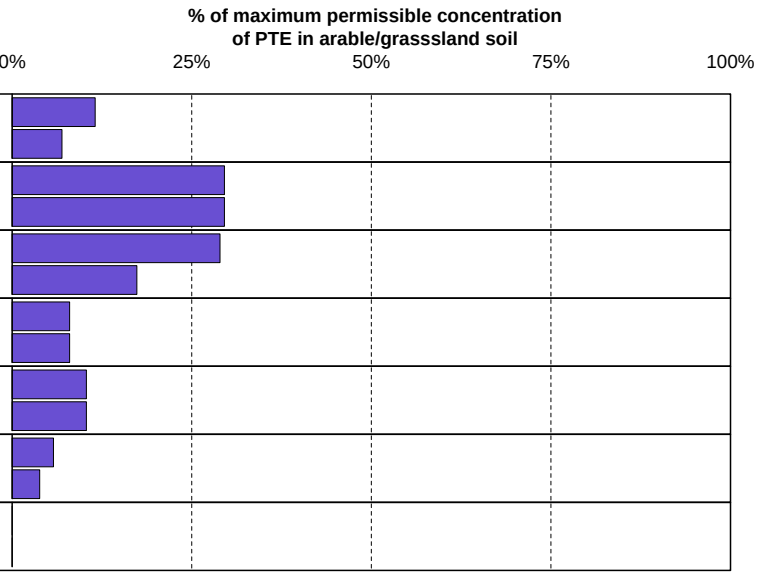
Soil Nutrients (1)

Determinand	Result mg/litre	Soil Index
Available Phosphorus	13.8	1
Available Potassium	89.8	1
Available Magnesium	116	3



Potentially Toxic Elements (2)

Determinand	Result mg/kg		Maximum mg/kg
Total Copper	15.6	Arable	135
		Grassland	225
Total Zinc	59.1	Arable	200
		Grassland	200
Total Nickel	21.7	Arable	75
		Grassland	125
Total Cadmium	0.24	Arable	3
		Grassland	3
Total Lead	31.0	Arable	300
		Grassland	300
Total Chromium	23.0	Arable	400
		Grassland	600
Total Mercury	<0.2	Arable	1
		Grassland	1.5



(1) Recommendations for liming and fertiliser should be obtained from Defra's Fertiliser Manual (RB209). The analytical methods used are as described in Defra's RB427.

(2) Concentration of Potentially Toxic Elements (PTE, commonly referred to as 'heavy metals') are in mg/kg dry soil. The maximum and the percentage of this maximum permissible concentration of PTE in soil are derived from the values in Defra's Code of Practice for Agricultural Use of Sewage Sludge (England & Wales) 1996. If applying organic manures to this soil it is important to ensure the soil is managed with a pH no less than 5.0, and that the PTE maximum values are not exceeded following the application. For soil where the pH value is less than 5.2, a FACTS Qualified Adviser should be consulted. Further details are provided in the Sludge Code.

Released by *Myles Nicholson* Date *09/11/22*

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SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - FIELD 2

RICHARD EVANS
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KNOTTINGLEY ROAD
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V724

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PHILLIPS
TYLEBRITHOS FARM
CANTREF
BRECON
LD3 8LR
SOIL

Date Received	31-OCT-2022
Date Reported	09-NOV-2022

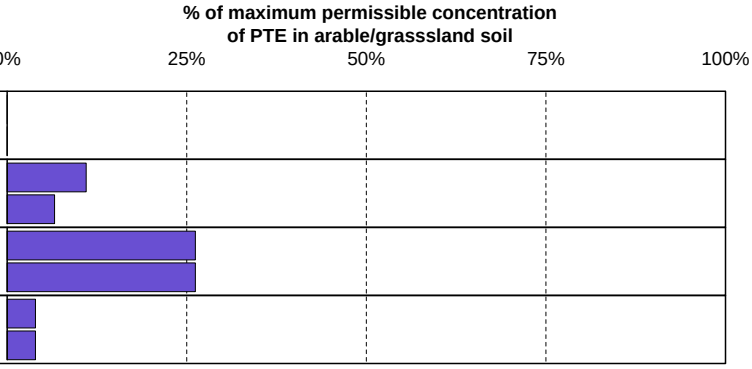
Laboratory References

Report Number	42468
Sample Number	588694

ANALYTICAL RESULTS *on 'dry matter' basis.*

Potentially Toxic Elements (2)

Determinand	Result mg/kg		Maximum mg/kg
Total Molybdenum	<1	Arable	4
		Grassland	4
Total Selenium	0.33	Arable	3
		Grassland	5
Total Arsenic	13.1	Arable	50
		Grassland	50
Fluoride	19.7	Arable	500
		Grassland	500



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SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - FIELD 3

RICHARD EVANS
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KNOTTINGLEY WF11 0BU

V724

Please quote above code for all enquiries

PHILLIPS
TYLEBRITHOS FARM
CANTREF
BRECON
LD3 8LR
SOIL

Date Received	31-OCT-2022
Date Reported	09-NOV-2022

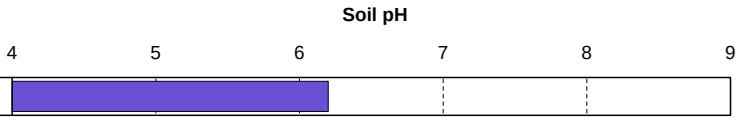
Laboratory References

Report Number	42468
Sample Number	588695

ANALYTICAL RESULTS *on 'dry matter' basis.*

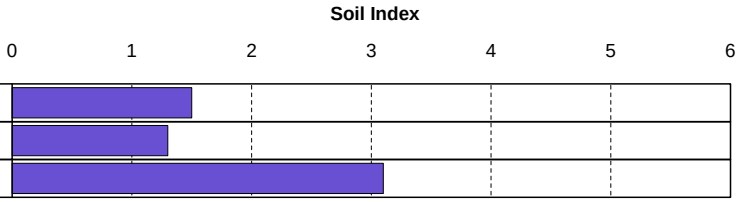
pH (1)

Determinand	Result
Soil pH	6.2



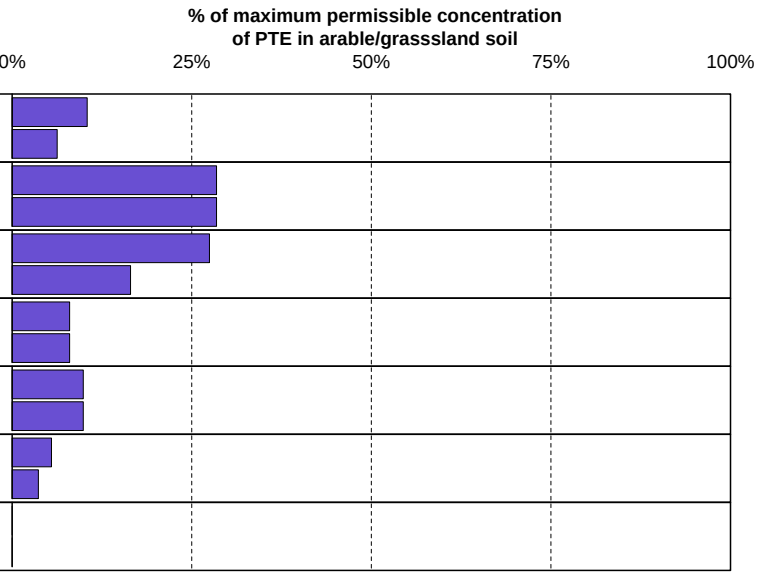
Soil Nutrients (1)

Determinand	Result mg/litre	Soil Index
Available Phosphorus	12.6	1
Available Potassium	83.8	1
Available Magnesium	113	3



Potentially Toxic Elements (2)

Determinand	Result mg/kg		Maximum mg/kg
Total Copper	14.1	Arable	135
		Grassland	225
Total Zinc	56.9	Arable	200
		Grassland	200
Total Nickel	20.6	Arable	75
		Grassland	125
Total Cadmium	0.24	Arable	3
		Grassland	3
Total Lead	29.7	Arable	300
		Grassland	300
Total Chromium	21.9	Arable	400
		Grassland	600
Total Mercury	<0.2	Arable	1
		Grassland	1.5



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SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - FIELD 3

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V724

PHILLIPS
TYLEBRITHOS FARM
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Date Received	31-OCT-2022
Date Reported	09-NOV-2022

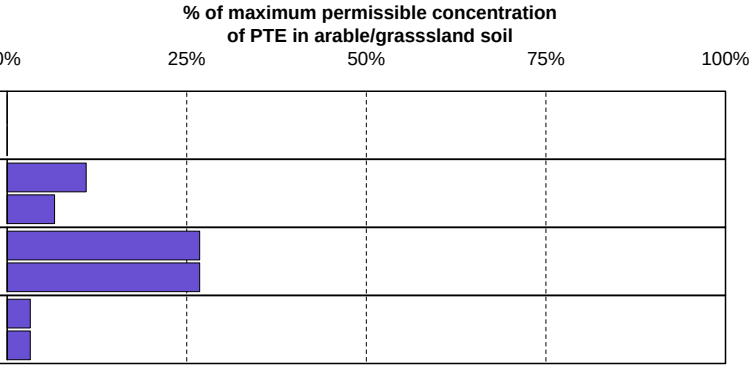
Laboratory References

Report Number	42468
Sample Number	588695

ANALYTICAL RESULTS *on 'dry matter' basis.*

Potentially Toxic Elements (2)

Determinand	Result mg/kg		Maximum mg/kg
Total Molybdenum	<1	Arable	4
		Grassland	4
Total Selenium	0.33	Arable	3
		Grassland	5
Total Arsenic	13.4	Arable	50
		Grassland	50
Fluoride	16.1	Arable	500
		Grassland	500



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SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - FIELD 4

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PHILLIPS
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SOIL

Date Received	31-OCT-2022
Date Reported	09-NOV-2022

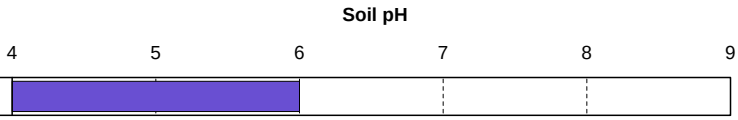
Laboratory References

Report Number	42468
Sample Number	588696

ANALYTICAL RESULTS *on 'dry matter' basis.*

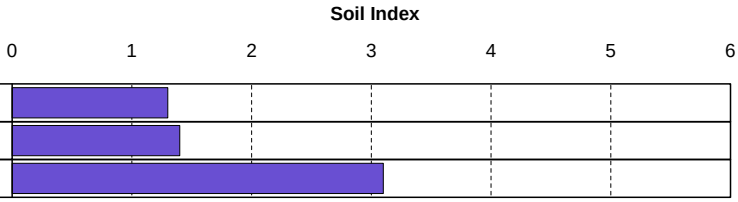
pH (1)

Determinand	Result
Soil pH	6.0



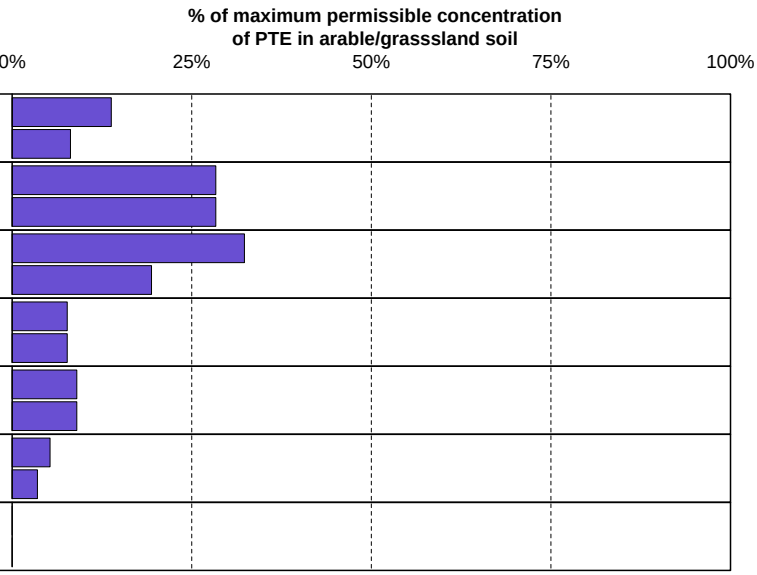
Soil Nutrients (1)

Determinand	Result mg/litre	Soil Index
Available Phosphorus	12.4	1
Available Potassium	85.4	1
Available Magnesium	114	3



Potentially Toxic Elements (2)

Determinand	Result mg/kg		Maximum mg/kg
Total Copper	13.8	Arable	100
		Grassland	170
Total Zinc	56.7	Arable	200
		Grassland	200
Total Nickel	19.4	Arable	60
		Grassland	100
Total Cadmium	0.23	Arable	3
		Grassland	3
Total Lead	27.0	Arable	300
		Grassland	300
Total Chromium	21.1	Arable	400
		Grassland	600
Total Mercury	<0.2	Arable	1
		Grassland	1.5



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SOIL CHEMICAL ANALYSIS REPORT FOR FIELD - FIELD 4

RICHARD EVANS
4 RECYCLING LTD
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KNOTTINGLEY ROAD
KNOTTINGLEY WF11 0BU

V724

PHILLIPS
TYLEBRITHOS FARM
CANTREF
BRECON
LD3 8LR
SOIL

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Date Received	31-OCT-2022
Date Reported	09-NOV-2022

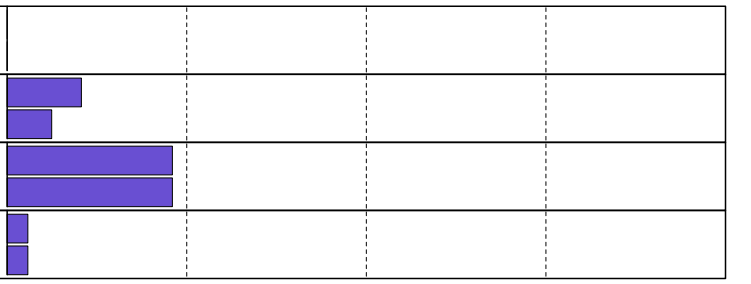
Laboratory References

Report Number	42468
Sample Number	588696

ANALYTICAL RESULTS *on 'dry matter' basis.*

Potentially Toxic Elements (2)

Determinand	Result mg/kg		Maximum mg/kg	% of maximum permissible concentration of PTE in arable/grasssland soil (0% 25% 50% 75% 100%)
Total Molybdenum	<1	Arable	4	
		Grassland	4	
Total Selenium	0.31	Arable	3	
		Grassland	5	
Total Arsenic	11.5	Arable	50	
		Grassland	50	
Fluoride	14.4	Arable	500	
		Grassland	500	



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