

Appendix 2 – Analysis Records



Soil Analysis Reports

Soil analysis report

Customer	PUFFIN PRODUCE LTD WOODLANDS SITE WITHYBUSH SA62 4BS	Distributor	PUFFIN FARMS LTD WOODLANDS SITE WITHYBUSH IND EST HAVERFORDWEST PEMBROKESHIRE SA62 4BS
Sample ref.	BOTTOM FIELD	Received	-
Sample no.	G182955/04	Issued	13/01/2026 (issue 1)
Crop	POTATOES		

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	5.9	6.5						
C.E.C. (meq/100g)	10.7	15.0						
Organic Matter (LOI) (%)	6.9	3.0						
Organic Carbon (LOI) (%)	4.0							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	10	16						
Potassium (ppm)	115	121						
Magnesium (ppm)	98	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	1443	2000						
Sulphur (ppm)	5	10						
Boron (ppm)	1.09	1.60						
Copper (ppm)	2.8	2.1						
Iron (ppm)	869	200						
Manganese (ppm)	22	15						
Molybdenum (ppm)	0.04	0.60						
Sodium (ppm)	95	90						
Zinc (ppm)	2.8	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH	●	5.9	6.5	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.
C.E.C. (meq/100g)	●	10.7	15.0	Cation Exchange Capacity indicates a slightly low nutrient holding ability - soil applied nutrients could be readily leached. Where possible foliar applied nutrients should be recommended.
Organic Matter (LOI) (%)	●	6.9	3.0	Good. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		4.0	--	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)	●	10	16	[Index 1.0] 210 kg/ha P ₂ O ₅ (168 units/acre).
Potassium (ppm)	●	115	121	[Index 1.9] 330 kg/ha K ₂ O (264 units/acre).
Magnesium (ppm)	●	98	51	[Index 2.9] 40 kg/ha MgO (32 units/acre).
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)	●	1443	2000	CONSIDER TREATMENT.
Sulphur (ppm)	●	5	10	CONSIDER TREATMENT.
Boron (ppm)	●	1.09	1.60	CONSIDER TREATMENT.
Copper (ppm)	●	2.8	2.1	Adequate level.
Iron (ppm)	●	869	200	Adequate level.
Manganese (ppm)	●	22	15	Adequate level.
Molybdenum (ppm)	●	0.04	0.60	Low priority on this crop. Other crops may be affected.
Sodium (ppm)	●	95	90	Normal level.
Zinc (ppm)	●	2.8	4.1	Low priority on this crop. Other crops may be affected.

Legend: ● Low ● Medium ● High

Comments:

Accreditation, Interpretation & Decision Rules

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All interpretations and comments are outside of our scope of accreditation.

The laboratory exercises a Simple Acceptance decision rule as per ILAC G8:09.

Distributor & customer details, sample reference and crop are supplied by the customer not the testing laboratory.



Sample no.: **G182955/04**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **BOTTOM FIELD**

Any indicated fertiliser application recommendations are taken from AHDB publication "Nutrient Management Guide (RB209)". Any indicated Lime Requirement assumes a medium textured soil.

Data Privacy

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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 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.

Additional technical bulletins are available at www.lancrop.com

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.

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

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Soil analysis report

Customer PUFFIN PRODUCE LTD
WOODLANDS SITE
WITHYBUSH
SA62 4BS

Distributor PUFFIN FARMS LTD
WOODLANDS SITE
WITHYBUSH IND EST
HAVERFORDWEST
PEMBROKESHIRE
SA62 4BS

Sample ref. FRONT FIELD
Sample no. G182955/08
Crop POTATOES

Received -
Issued 13/01/2026 (issue 1)

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	6.1	6.5						
C.E.C. (meq/100g)	12.8	15.0						
Organic Matter (LOI) (%)	10.3	3.0						
Organic Carbon (LOI) (%)	6.0							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	13	16						
Potassium (ppm)	424	121						
Magnesium (ppm)	137	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	1629	2000						
Sulphur (ppm)	9	10						
Boron (ppm)	1.25	1.60						
Copper (ppm)	3.0	2.1						
Iron (ppm)	1267	200						
Manganese (ppm)	53	25						
Molybdenum (ppm)	0.01	0.60						
Sodium (ppm)	41	90						
Zinc (ppm)	5.9	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH	●	6.1	6.5	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.
C.E.C. (meq/100g)	●	12.8	15.0	Cation Exchange Capacity indicates a slightly low nutrient holding ability - soil applied nutrients could be readily leached. Where possible foliar applied nutrients should be recommended.
Organic Matter (LOI) (%)	●	10.3	3.0	High. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		6.0	--	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)	●	13	16	[Index 1.5] 210 kg/ha P2O5 (168 units/acre).
Potassium (ppm)	●	424	121	[Index 4.1] Possible interference with the availability of Magnesium.
Magnesium (ppm)	●	137	51	[Index 3.5] Adequate level.
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)	●	1629	2000	CONSIDER TREATMENT.
Sulphur (ppm)	●	9	10	CONSIDER TREATMENT.
Boron (ppm)	●	1.25	1.60	CONSIDER TREATMENT.
Copper (ppm)	●	3.0	2.1	Adequate level.
Iron (ppm)	●	1267	200	Adequate level.
Manganese (ppm)	●	53	25	Adequate level.
Molybdenum (ppm)	●	0.01	0.60	Low priority on this crop. Other crops may be affected.
Sodium (ppm)	●	41	90	Not a problem for this crop.
Zinc (ppm)	●	5.9	4.1	Adequate level.

Legend: ● Low ● Medium ● High

Comments:

Accreditation, Interpretation & Decision Rules

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Sample no.: **G182955/08**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **FRONT FIELD**

Distributor & customer details, sample reference and crop are supplied by the customer not the testing laboratory.

Any indicated fertiliser application recommendations are taken from AHDB publication "Nutrient Management Guide (RB209)". Any indicated Lime Requirement assumes a medium textured soil.

Data Privacy

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Released by *Chris Lindley* Laboratory Manager, on behalf of Lancrop Laboratories

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Soil analysis report

Customer PUFFIN PRODUCE LTD
WOODLANDS SITE
WITHYBUSH
SA62 4BS

Distributor PUFFIN FARMS LTD
WOODLANDS SITE
WITHYBUSH IND EST
HAVERFORDWEST
PEMBROKESHIRE
SA62 4BS

Sample ref. COVER COTTS

Received

Sample no. G182955/06

Issued

-

13/01/2026 (issue 1)

Crop POTATOES

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	6.5	6.5						
C.E.C. (meq/100g)	13.9	15.0						
Organic Matter (LOI) (%)	7.5	3.0						
Organic Carbon (LOI) (%)	4.3							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	42	16						
Potassium (ppm)	166	121						
Magnesium (ppm)	138	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	1851	2000						
Sulphur (ppm)	9	10						
Boron (ppm)	1.21	1.60						
Copper (ppm)	4.1	2.1						
Iron (ppm)	1055	200						
Manganese (ppm)	69	45						
Molybdenum (ppm)	0.01	0.60						
Sodium (ppm)	78	90						
Zinc (ppm)	7.2	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH	●	6.5	6.5	Adequate level. Maintain pH to ensure optimum nutrient availability and ideal conditions for an active soil biology.
C.E.C. (meq/100g)	●	13.9	15.0	Cation Exchange Capacity indicates a slightly low nutrient holding ability - soil applied nutrients could be readily leached. Where possible foliar applied nutrients should be recommended.
Organic Matter (LOI) (%)	●	7.5	3.0	Good. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		4.3	--	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)	●	42	16	[Index 3.8] 100 kg/ha P2O5 (80 units/acre).
Potassium (ppm)	●	166	121	[Index 2.4] 300 kg/ha K2O (240 units/acre).
Magnesium (ppm)	●	138	51	[Index 3.5] Adequate level.
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)	●	1851	2000	CONSIDER TREATMENT.
Sulphur (ppm)	●	9	10	CONSIDER TREATMENT.
Boron (ppm)	●	1.21	1.60	CONSIDER TREATMENT.
Copper (ppm)	●	4.1	2.1	Adequate level.
Iron (ppm)	●	1055	200	Adequate level.
Manganese (ppm)	●	69	45	Adequate level.
Molybdenum (ppm)	●	0.01	0.60	Low priority on this crop. Other crops may be affected.
Sodium (ppm)	●	78	90	Not a problem for this crop.
Zinc (ppm)	●	7.2	4.1	Adequate level.

Legend: ● Low ● Medium ● High

Comments:

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Data Privacy

Sample no.: **G182955/06**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **COVER COTTS**

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The potash recommendations at target or lower indices 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.

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Soil analysis report

Customer PUFFIN PRODUCE LTD
WOODLANDS SITE
WITHYBUSH
SA62 4BS

Distributor PUFFIN FARMS LTD
WOODLANDS SITE
WITHYBUSH IND EST
HAVERFORDWEST
PEMBROKESHIRE
SA62 4BS

Sample ref. TRIANGLE YARD
Sample no. G182955/01
Crop POTATOES

Received -
Issued 13/01/2026 (issue 1)

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	6.8	6.5						
C.E.C. (meq/100g)	13.5	15.0						
Organic Matter (LOI) (%)	6.8	3.0						
Organic Carbon (LOI) (%)	3.9							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	10	16						
Potassium (ppm)	124	121						
Magnesium (ppm)	100	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	2025	2000						
Sulphur (ppm)	2	10						
Boron (ppm)	1.14	1.60						
Copper (ppm)	3.6	2.1						
Iron (ppm)	1228	200						
Manganese (ppm)	85	60						
Molybdenum (ppm)	< 0.01	0.40						
Sodium (ppm)	81	90						
Zinc (ppm)	4.1	4.1						

Soil analysis report

Customer PUFFIN PRODUCE LTD
WOODLANDS SITE
WITHYBUSH
SA62 4BS

Distributor PUFFIN FARMS LTD
WOODLANDS SITE
WITHYBUSH IND EST
HAVERFORDWEST
PEMBROKESHIRE
SA62 4BS

Sample ref. GOLD MINE
Sample no. G182955/03
Crop POTATOES

Received -
Issued 13/01/2026 (issue 1)

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	5.6	6.5						
C.E.C. (meq/100g)	11.9	15.0						
Organic Matter (LOI) (%)	8.7	3.0						
Organic Carbon (LOI) (%)	5.0							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	27	16						
Potassium (ppm)	200	121						
Magnesium (ppm)	101	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	1385	2000						
Sulphur (ppm)	5	10						
Boron (ppm)	1.05	1.60						
Copper (ppm)	2.5	2.1						
Iron (ppm)	636	200						
Manganese (ppm)	38	5						
Molybdenum (ppm)	0.03	0.60						
Sodium (ppm)	35	90						
Zinc (ppm)	3.6	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH	●	5.6	6.5	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.
C.E.C. (meq/100g)	●	11.9	15.0	Cation Exchange Capacity indicates a slightly low nutrient holding ability - soil applied nutrients could be readily leached. Where possible foliar applied nutrients should be recommended.
Organic Matter (LOI) (%)	●	8.7	3.0	High. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		5.0	--	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)	●	27	16	[Index 3.1] 100 kg/ha P ₂ O ₅ (80 units/acre).
Potassium (ppm)	●	200	121	[Index 2.7] 300 kg/ha K ₂ O (240 units/acre).
Magnesium (ppm)	●	101	51	[Index 3.0] Adequate level.
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)	●	1385	2000	CONSIDER TREATMENT.
Sulphur (ppm)	●	5	10	CONSIDER TREATMENT.
Boron (ppm)	●	1.05	1.60	CONSIDER TREATMENT.
Copper (ppm)	●	2.5	2.1	Adequate level.
Iron (ppm)	●	636	200	Adequate level.
Manganese (ppm)	●	38	5	Adequate level.
Molybdenum (ppm)	●	0.03	0.60	Low priority on this crop. Other crops may be affected.
Sodium (ppm)	●	35	90	Not a problem for this crop.
Zinc (ppm)	●	3.6	4.1	Low priority on this crop. Other crops may be affected.

Legend: ● Low ● Medium ● High

Comments:

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Sample no.: **G182955/03**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **GOLD MINE**

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Soil analysis report

Customer PUFFIN PRODUCE LTD
WOODLANDS SITE
WITHYBUSH
SA62 4BS

Distributor PUFFIN FARMS LTD
WOODLANDS SITE
WITHYBUSH IND EST
HAVERFORDWEST
PEMBROKESHIRE
SA62 4BS

Sample ref. MIDDLE COTTS
Sample no. G182954/06
Crop POTATOES

Received -
Issued 13/01/2026 (issue 1)

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	7.0	6.5						
C.E.C. (meq/100g)	16.0	15.0						
Organic Matter (LOI) (%)	4.7	3.0						
Organic Carbon (LOI) (%)	2.7							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	28	16						
Potassium (ppm)	227	121						
Magnesium (ppm)	127	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	2459	2000						
Sulphur (ppm)	8	10						
Boron (ppm)	1.53	1.60						
Copper (ppm)	7.8	2.1						
Iron (ppm)	699	200						
Manganese (ppm)	124	70						
Molybdenum (ppm)	0.01	0.30						
Sodium (ppm)	86	90						
Zinc (ppm)	7.3	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH	●	7.0	6.5	Adequate level. Maintain pH to ensure optimum nutrient availability and ideal conditions for an active soil biology.
C.E.C. (meq/100g)	●	16.0	15.0	Cation Exchange Capacity indicates a soil with a good nutrient holding ability.
Organic Matter (LOI) (%)	●	4.7	3.0	Good. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		2.7	--	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)	●	28	16	[Index 3.1] 100 kg/ha P ₂ O ₅ (80 units/acre).
Potassium (ppm)	●	227	121	[Index 2.9] 300 kg/ha K ₂ O (240 units/acre).
Magnesium (ppm)	●	127	51	[Index 3.3] Adequate level.
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)	●	2459	2000	Adequate level.
Sulphur (ppm)	●	8	10	CONSIDER TREATMENT.
Boron (ppm)	●	1.53	1.60	CONSIDER TREATMENT.
Copper (ppm)	●	7.8	2.1	Adequate level.
Iron (ppm)	●	699	200	Adequate level.
Manganese (ppm)	●	124	70	Adequate level.
Molybdenum (ppm)	●	0.01	0.30	Low priority on this crop. Other crops may be affected.
Sodium (ppm)	●	86	90	Not a problem for this crop.
Zinc (ppm)	●	7.3	4.1	Adequate level.

Legend: ● Low ● Medium ● High

Comments:

Accreditation, Interpretation & Decision Rules

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Sample no.: **G182954/06**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **MIDDLE COTTS**

The potash recommendations at target or lower indices 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.

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Released by *Chris Lindley* Laboratory Manager, on behalf of Lancrop Laboratories

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Soil analysis report

Customer PUFFIN PRODUCE LTD
WOODLANDS SITE
WITHYBUSH
SA62 4BS

Distributor PUFFIN FARMS LTD
WOODLANDS SITE
WITHYBUSH IND EST
HAVERFORDWEST
PEMBROKESHIRE
SA62 4BS

Sample ref. ABOVE BUNGALOW
Sample no. G182954/07
Crop POTATOES

Received -
Issued 13/01/2026 (issue 1)

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	6.5	6.5						
C.E.C. (meq/100g)	15.4	15.0						
Organic Matter (LOI) (%)	5.9	3.0						
Organic Carbon (LOI) (%)	3.4							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	18	16						
Potassium (ppm)	250	121						
Magnesium (ppm)	114	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	2085	2000						
Sulphur (ppm)	8	10						
Boron (ppm)	1.31	1.60						
Copper (ppm)	4.1	2.1						
Iron (ppm)	937	200						
Manganese (ppm)	141	45						
Molybdenum (ppm)	0.02	0.60						
Sodium (ppm)	51	90						
Zinc (ppm)	3.4	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH		6.5	6.5	Adequate level. Maintain pH to ensure optimum nutrient availability and ideal conditions for an active soil biology.
C.E.C. (meq/100g)		15.4	15.0	Cation Exchange Capacity indicates a soil with a good nutrient holding ability.
Organic Matter (LOI) (%)		5.9	3.0	Good. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		3.4	--	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)		18	16	[Index 2.2] 170 kg/ha P2O5 (136 units/acre).
Potassium (ppm)		250	121	[Index 3.1] 150 kg/ha K2O (120 units/acre). Maintenance.
Magnesium (ppm)		114	51	[Index 3.2] Adequate level.
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)		2085	2000	Adequate level.
Sulphur (ppm)		8	10	CONSIDER TREATMENT.
Boron (ppm)		1.31	1.60	CONSIDER TREATMENT.
Copper (ppm)		4.1	2.1	Adequate level.
Iron (ppm)		937	200	Adequate level.
Manganese (ppm)		141	45	Adequate level.
Molybdenum (ppm)		0.02	0.60	Low priority on this crop. Other crops may be affected.
Sodium (ppm)		51	90	Not a problem for this crop.
Zinc (ppm)		3.4	4.1	Low priority on this crop. Other crops may be affected.

Legend:  Low  Medium  High

Comments:

Accreditation, Interpretation & Decision Rules

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Data Privacy

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Sample no.: **G182954/07**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **ABOVE BUNGALOW**

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

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Soil analysis report

Customer PUFFIN PRODUCE LTD
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Distributor PUFFIN FARMS LTD
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WITHYBUSH IND EST
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SA62 4BS

Sample ref. BUNGALOW PADDOCK
Sample no. G182954/08
Crop POTATOES

Received -
Issued 13/01/2026 (issue 1)

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	6.1	6.5						
C.E.C. (meq/100g)	14.8	15.0						
Organic Matter (LOI) (%)	5.9	3.0						
Organic Carbon (LOI) (%)	3.4							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	20	16						
Potassium (ppm)	158	121						
Magnesium (ppm)	117	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	1959	2000						
Sulphur (ppm)	6	10						
Boron (ppm)	1.22	1.60						
Copper (ppm)	5.0	2.1						
Iron (ppm)	803	200						
Manganese (ppm)	79	25						
Molybdenum (ppm)	0.03	0.60						
Sodium (ppm)	39	90						
Zinc (ppm)	3.4	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH	●	6.1	6.5	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.
C.E.C. (meq/100g)	●	14.8	15.0	Cation Exchange Capacity indicates a slightly low nutrient holding ability - soil applied nutrients could be readily leached. Where possible foliar applied nutrients should be recommended.
Organic Matter (LOI) (%)	●	5.9	3.0	Good. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		3.4	—	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)	●	20	16	[Index 2.4] 170 kg/ha P ₂ O ₅ (136 units/acre).
Potassium (ppm)	●	158	121	[Index 2.3] 300 kg/ha K ₂ O (240 units/acre).
Magnesium (ppm)	●	117	51	[Index 3.2] Adequate level.
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)	●	1959	2000	CONSIDER TREATMENT.
Sulphur (ppm)	●	6	10	CONSIDER TREATMENT.
Boron (ppm)	●	1.22	1.60	CONSIDER TREATMENT.
Copper (ppm)	●	5.0	2.1	Adequate level.
Iron (ppm)	●	803	200	Adequate level.
Manganese (ppm)	●	79	25	Adequate level.
Molybdenum (ppm)	●	0.03	0.60	Low priority on this crop. Other crops may be affected.
Sodium (ppm)	●	39	90	Not a problem for this crop.
Zinc (ppm)	●	3.4	4.1	Low priority on this crop. Other crops may be affected.

Legend: ● Low ● Medium ● High

Comments:

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Distributor & customer details, sample reference and crop are supplied by the customer not the testing laboratory.

Sample no.: **G182954/08**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **BUNGALOW PADDOCK**

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

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Soil analysis report

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Distributor PUFFIN FARMS LTD
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PEMBROKESHIRE
SA62 4BS

Sample ref. UPPER COTTS
Sample no. G182954/10
Crop POTATOES

Received -
Issued 13/01/2026 (issue 1)

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	6.2	6.5						
C.E.C. (meq/100g)	14.3	15.0						
Organic Matter (LOI) (%)	5.5	3.0						
Organic Carbon (LOI) (%)	3.2							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	22	16						
Potassium (ppm)	138	121						
Magnesium (ppm)	111	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	2119	2000						
Sulphur (ppm)	5	10						
Boron (ppm)	1.41	1.60						
Copper (ppm)	5.1	2.1						
Iron (ppm)	890	200						
Manganese (ppm)	59	30						
Molybdenum (ppm)	0.02	0.60						
Sodium (ppm)	40	90						
Zinc (ppm)	3.5	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH	●	6.2	6.5	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.
C.E.C. (meq/100g)	●	14.3	15.0	Cation Exchange Capacity indicates a slightly low nutrient holding ability - soil applied nutrients could be readily leached. Where possible foliar applied nutrients should be recommended.
Organic Matter (LOI) (%)	●	5.5	3.0	Good. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		3.2	—	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)	●	22	16	[Index 2.6] 170 kg/ha P ₂ O ₅ (136 units/acre).
Potassium (ppm)	●	138	121	[Index 2.1] 300 kg/ha K ₂ O (240 units/acre).
Magnesium (ppm)	●	111	51	[Index 3.1] Adequate level.
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)	●	2119	2000	Adequate level.
Sulphur (ppm)	●	5	10	CONSIDER TREATMENT.
Boron (ppm)	●	1.41	1.60	CONSIDER TREATMENT.
Copper (ppm)	●	5.1	2.1	Adequate level.
Iron (ppm)	●	890	200	Adequate level.
Manganese (ppm)	●	59	30	Adequate level.
Molybdenum (ppm)	●	0.02	0.60	Low priority on this crop. Other crops may be affected.
Sodium (ppm)	●	40	90	Not a problem for this crop.
Zinc (ppm)	●	3.5	4.1	Low priority on this crop. Other crops may be affected.

Legend: ● Low ● Medium ● High

Comments:

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Sample no.: **G182954/10**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **UPPER COTTS**

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Soil analysis report

Customer PUFFIN PRODUCE LTD
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SA62 4BS

Distributor PUFFIN FARMS LTD
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Sample ref. ROAD FIELD
Sample no. G182954/09
Crop POTATOES

Received -
Issued 13/01/2026 (issue 1)

Soil characteristics	Result	Guideline	Low		Medium		High	
pH	6.3	6.5						
C.E.C. (meq/100g)	14.9	15.0						
Organic Matter (LOI) (%)	6.9	3.0						
Organic Carbon (LOI) (%)	4.0							
Primary nutrients	Result	Guideline	0	1	2-	2+	3	4+
Phosphorus (ppm)	17	16						
Potassium (ppm)	140	121						
Magnesium (ppm)	108	51						
Secondary & micronutrients	Result	Guideline	Low		Medium		High	
Calcium (ppm)	2257	2000						
Sulphur (ppm)	5	10						
Boron (ppm)	1.34	1.60						
Copper (ppm)	5.5	2.1						
Iron (ppm)	709	200						
Manganese (ppm)	40	35						
Molybdenum (ppm)	0.01	0.60						
Sodium (ppm)	45	90						
Zinc (ppm)	4.1	4.1						

Interpretation and comments

Soil characteristics		Result	Guideline	Comments
pH	●	6.3	6.5	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.
C.E.C. (meq/100g)	●	14.9	15.0	Cation Exchange Capacity indicates a slightly low nutrient holding ability - soil applied nutrients could be readily leached. Where possible foliar applied nutrients should be recommended.
Organic Matter (LOI) (%)	●	6.9	3.0	Good. Soils with medium to high levels of organic matter would generally be expected to have a good potential fertility and good structure, moisture retention and water infiltration. Ensure appropriate soil management practices are used to maintain organic matter levels.
Organic Carbon (LOI) (%)		4.0	—	
Primary nutrients		Result	Guideline	Comments
Phosphorus (ppm)	●	17	16	[Index 2.1] 170 kg/ha P ₂ O ₅ (136 units/acre).
Potassium (ppm)	●	140	121	[Index 2.2] 300 kg/ha K ₂ O (240 units/acre).
Magnesium (ppm)	●	108	51	[Index 3.1] Adequate level.
Secondary & micronutrients		Result	Guideline	Comments
Calcium (ppm)	●	2257	2000	Adequate level.
Sulphur (ppm)	●	5	10	CONSIDER TREATMENT.
Boron (ppm)	●	1.34	1.60	CONSIDER TREATMENT.
Copper (ppm)	●	5.5	2.1	Adequate level.
Iron (ppm)	●	709	200	Adequate level.
Manganese (ppm)	●	40	35	Adequate level.
Molybdenum (ppm)	●	0.01	0.60	Low priority on this crop. Other crops may be affected.
Sodium (ppm)	●	45	90	Not a problem for this crop.
Zinc (ppm)	●	4.1	4.1	Adequate level.

Legend: ● Low ● Medium ● High

Comments:

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Sample no.: **G182954/09**, Customer: **PUFFIN PRODUCE LTD**, Sample ref.: **ROAD FIELD**

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