

ARLA FOOD INGREDIENTS, FELINFACH

Analysis of Wash Water (Whey Plant)

Sample Name: SPILL

Report No: 95205

Sample No: 167515

Date: 05/06/2025

Application rate (t/ha) 50.0

Application rate (t/acre) 20.2

pH 3.84

Dry solids (%) 2.71

Organic Matter (%) 2.55

NUTRIENT CONTENT

	result	units	Total		Available	
			(kg/t)	(kg/ha)	(kg/t)	(kg/ha)
Nitrogen (N)	0.24	%	2.4	120	0.5	24
Ammonium-N	29	mg/kg	0.0	1		
Phosphorus (P)	164	mg/kg	0.2	8		
Phosphate (P ₂ O ₅)			0.4	19	0.2	11
Potassium (K)	383	mg/kg	0.4	19		
Potash (K ₂ O)			0.5	23	0.4	18
Magnesium (Mg)	15.4	mg/kg	0.0	1		
Magnesium (MgO)			0.0	1	0.0	0
Sulphur (S)	173	mg/kg	0.2	9		
Sulphur (SO ₃)			0.4	22	0.1	4

POTENTIALLY TOXIC ELEMENTS

	result	units	Rate		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	0.50	mg/kg	0.50	0.03	15.00
Copper	0.20	mg/kg	0.20	0.01	7.50
Nickel	0.20	mg/kg	0.20	0.01	3.00
Lead	0.50	mg/kg	0.50	0.03	15.00
Cadmium	0.01	mg/kg	0.01	0.00	0.15
Chromium	0.24	mg/kg	0.24	0.01	15.00
Mercury	0.05	mg/kg	0.05	0.00	0.10

All results expressed on sample as received. The zinc, copper, nickel, lead, cadmium and mercury concentrations are less than the minimum level of detection, consequently, the calculated values will be less than those shown

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 STEPSIDE FARM
 GWBERT ROAD
 CARDIGAN
 SA43 1PH

V850

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LIQUID WASTE

SLURRY/SLUDGE ANALYSIS RESULTS

Sample Reference :

SPILL

Sample Matrix : SLURRY/SLUDGE

Laboratory References

Report Number	95205
Sample Number	167515

Date Received	05-JUN-2025
Date Reported	19-JUN-2025

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Oven Dry Solids	2.71	%
E Coli [Fresh]	<10	cfu/g
Conductivity 1:6	456	uS/cm
Total Kjeldahl Nitrogen	0.24	% w/w
Nitrate Nitrogen	<10	mg/kg
Ammonium Nitrogen	29.0	mg/kg
Total Phosphorus (P)	164	mg/kg
Total Potassium (K)	383	mg/kg
Total Magnesium (Mg)	15.4	mg/kg
Total Copper (Cu)	<0.2	mg/kg

Released by *Teresa Clyne*

Date *19/06/25*

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Date Reported	19-JUN-2025

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Total Zinc (Zn)	<0.5	mg/kg
Total Sulphur (S)	173	mg/kg
Total Calcium (Ca)	78.8	mg/kg
Total Lead (Pb)	<0.5	mg/kg
Total Cadmium (Cd)	<0.01	mg/kg
Total Mercury (Hg)	<0.05	mg/kg
Total Nickel (Ni)	<0.2	mg/kg
Total Chromium (Cr)	0.24	mg/kg
Total Sodium (Na)	207	mg/kg
pH 1:6 [Fresh]	3.84	

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SLURRY/SLUDGE ANALYSIS RESULTS

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SPILL

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Laboratory References

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Sample Number	167515

Date Received	05-JUN-2025
Date Reported	19-JUN-2025

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Organic Matter LOI	2.55	% w/w
Coliforms [fresh]	<10	cfu/g
B.O.D. [fresh]	23460	mg/l
C.O.D. [fresh]	42460	mg/kg
Oils,Fats and Grease	1462	mg/kg
Salmonella spp [fresh]	Negative	in 25g
EC [Neat]	2379	uS/cm

Released by *Teresa Clyne*

Date *19/06/25*

VOLAC/SENSIENT, FELINFACH: EPR/BP3135EB EFFLUENT TREATMENT PLANT (ARLA FOOD INGREDIENTS, FELINFACH)

Analysis of Liquid Sludge

Sample Name: ARLA

Report No: 51065-26

Sample No: SLUR180264

Date: 28/04/2026

Application rate (t/ha) 26.0
Application rate (t/acre) 10.5
pH 7.41
Dry solids (%) 3.25

NUTRIENT CONTENT

	result	units	Total		Available	
			(kg/t)	(kg/ha)	(kg/t)	(kg/ha)
Nitrogen (N)	0.25	%	2.5	65	0.5	13
Ammonium-N	94.3	mg/kg	0.1	2		
Phosphorus (P)	1067	mg/kg	1.1	28		
Phosphate (P ₂ O ₅)			2.4	64	1.5	38
Potassium (K)	1269	mg/kg	1.3	33		
Potash (K ₂ O)			1.5	40	1.2	32
Magnesium (Mg)	210	mg/kg	0.2	5		
Magnesium (MgO)			0.3	9	0.0	1
Sulphur (S)	245	mg/kg	0.2	6		
Sulphur (SO ₃)			0.6	16	0.1	3

POTENTIALLY TOXIC ELEMENTS

	result	units	Rate		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	1.17	mg/kg	1.17	0.03	15.00
Copper	0.20	mg/kg	0.20	0.01	7.50
Nickel	0.20	mg/kg	0.20	0.01	3.00
Lead	0.50	mg/kg	0.50	0.01	15.00
Cadmium	0.01	mg/kg	0.01	0.00	0.15
Chromium	0.20	mg/kg	0.20	0.01	15.00
Mercury	0.05	mg/kg	0.05	0.00	0.10

All results expressed on sample as received. The copper, nickel, lead, cadmium, chromium and mercury concentrations are less than the minimum level of detection, consequently, the calculated values will be less than those shown

VOLAC/SENSIENT, FELINFACH: EPR/BP3135EB EFFLUENT TREATMENT PLANT (ARLA FOOD INGREDIENTS, FELINFACH)

Analysis of Liquid Sludge

Sample Name: ARLA

Report No: 51065-26

Sample No: SLUR180264

Date: 28/04/2026

Application rate (t/ha) 50.0
Application rate (t/acre) 20.2
pH 7.41
Dry solids (%) 3.25

NUTRIENT CONTENT

	result	units	Total		Available	
			(kg/t)	(kg/ha)	(kg/t)	(kg/ha)
Nitrogen (N)	0.25	%	2.5	125	0.5	25
Ammonium-N	94.3	mg/kg	0.1	5		
Phosphorus (P)	1067	mg/kg	1.1	53		
Phosphate (P ₂ O ₅)			2.4	122	1.5	73
Potassium (K)	1269	mg/kg	1.3	63		
Potash (K ₂ O)			1.5	76	1.2	61
Magnesium (Mg)	210	mg/kg	0.2	11		
Magnesium (MgO)			0.3	17	0.0	2
Sulphur (S)	245	mg/kg	0.2	12		
Sulphur (SO ₃)			0.6	31	0.1	6

POTENTIALLY TOXIC ELEMENTS

	result	units	Rate		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	1.17	mg/kg	1.17	0.06	15.00
Copper	0.20	mg/kg	0.20	0.01	7.50
Nickel	0.20	mg/kg	0.20	0.01	3.00
Lead	0.50	mg/kg	0.50	0.03	15.00
Cadmium	0.01	mg/kg	0.01	0.00	0.15
Chromium	0.20	mg/kg	0.20	0.01	15.00
Mercury	0.05	mg/kg	0.05	0.00	0.10

All results expressed on sample as received. The copper, nickel, lead, cadmium, chromium and mercury concentrations are less than the minimum level of detection, consequently, the calculated values will be less than those shown

ANALYTICAL REPORT

Report Number	51065-26	W138	RE-ORGANICS	Client	STEPSIDE AGRI
Date Received	28-APR-2026		CONSULTING LTD		THE OLD CATTLEMART
Date Reported	12-MAY-2026		APPLE BARN		STATION ROAD
Project	LIQUID WASTE		ELTON LANE		CARDIGAN
Reference	RE-ORGANICS		NEWNHAM		SA43 3AD
Order Number			GLOS GL14 1JJ		

Laboratory Reference		██████	SLUR180264								
Sample Reference		██████	ARLA								
Determinand	Unit	██████	SLURRY/SLUDGE								
Oven Dry Solids	%	████	3.25								
BOD [ATU]	mg/l	████	6900								
Conductivity 1:6	uS/cm	████	1213								
Total Kjeldahl Nitrogen	% w/w	████	0.25								
Nitrate Nitrogen	mg/kg	████	<10								
Ammonium Nitrogen	mg/kg	████	94.3								
Total Phosphorus (P)	mg/kg	████	1067								
Total Potassium (K)	mg/kg	████	1269								
Total Magnesium (Mg)	mg/kg	████	210								
Total Copper (Cu)	mg/kg	████	<0.2								
Total Zinc (Zn)	mg/kg	████	1.17								
Total Sulphur (S)	mg/kg	████	245								
Total Calcium (Ca)	mg/kg	████	1919								
Total Lead (Pb)	mg/kg	████	<0.5								
Total Cadmium (Cd)	mg/kg	████	<0.01								
Total Mercury (Hg)	mg/kg	████	<0.05								
Total Nickel (Ni)	mg/kg	████	<0.2								
Total Chromium (Cr)	mg/kg	████	<0.2								
Total Sodium (Na)	mg/kg	████	792								
pH 1:6 [Fresh]		████	7.41								
Oils,Fats and Grease	mg/kg	████	<200								

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

ANALYTICAL NOTES			
Report Number	51065-26	W138 RE-ORGANICS	Client STEPSIDE AGRI
Date Received	28-APR-2026	CONSULTING LTD	THE OLD CATTLEMART
Date Reported	12-MAY-2026	APPLE BARN	STATION ROAD
Project	LIQUID WASTE	ELTON LANE	CARDIGAN
Reference	RE-ORGANICS	NEWNHAM	SA43 3AD
Order Number		GLOS GL14 1JJ	
Notes			
Reported by	<i>Teresa Clyne</i> Natural Resource Management, a trading division of Cawood Scientific Ltd. Coopers Bridge, Braziers Lane, Bracknell, Berkshire, RG42 6NS Tel: 01344 886338 Fax: 01344 890972 email: enquiries@nrm.uk.com		

THE WELSH WHISKY COMPANY
PENDERYN BRECON BEACONS DISTILLERY, PENDERYN

Analysis of spent wash

Sample Ref: PENDERYN

Report Number: 96965
Sample Number: 168108
Date: 20/06/2025

Application rate (t/ha) 50.0
Application rate (t/acre) 20.2
pH 3.77
Dry solids (%) 1.82

NUTRIENT CONTENT

	result	units	Total		Available	
			(kg/t)	(kg/ha)	(kg/t)	(kg/ha)
Nitrogen (N)	0.08	%	0.8	40	0.1	4
Ammonium-N	56.60	mg/kg	0.1	3		
Phosphorus (P)	310.00	mg/kg	0.3	16		
Phosphate (P ₂ O ₅)			0.7	35	0.4	18
Potassium (K)	730.00	mg/kg	0.7	37		
Potash (K ₂ O)			0.9	44	0.8	39
Magnesium (Mg)	91.90	mg/kg	0.1	5		
Magnesium (MgO)			0.2	8	0.0	1
Sulphur (S)	96.60	mg/kg	0.1	5		
Sulphur (SO ₃)			0.2	12	0.0	2

POTENTIALLY TOXIC ELEMENTS

	result	units	Rate		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	10.50	mg/kg	10.50	0.53	15.00
Copper	4.13	mg/kg	4.13	0.21	7.50
Nickel	0.40	mg/kg	0.40	0.02	3.00
Lead	0.50	mg/kg	0.50	0.03	15.00
Cadmium	0.01	mg/kg	0.01	0.00	0.15
Chromium	0.20	mg/kg	0.20	0.01	15.00
Mercury	0.05	mg/kg	0.05	0.00	0.10

All results expressed on sample as received. The lead, cadmium, chromium & mercury concentrations are less than the minimum lab level of detection, consequently, the calculated values will be less than those shown.

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CARDIGAN
CEREDIGION
SA43 3AD

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STEPSIDE AGRI

LIQUID WASTE

SLURRY/SLUDGE ANALYSIS RESULTS

Sample Reference :

PENDERYN

Sample Matrix : SLURRY/SLUDGE

Laboratory References

Report Number	96965
Sample Number	168108

Date Received	20-JUN-2025
Date Reported	01-JUL-2025

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Oven Dry Solids	1.82	%
E Coli [Fresh]	<10	cfu/g
Conductivity 1:6	765	uS/cm
Total Kjeldahl Nitrogen	0.08	% w/w
Nitrate Nitrogen	<10	mg/kg
Ammonium Nitrogen	56.6	mg/kg
Total Phosphorus (P)	310	mg/kg
Total Potassium (K)	730	mg/kg
Total Magnesium (Mg)	91.9	mg/kg
Total Copper (Cu)	4.13	mg/kg

Released by *Karen Mitchell*

Date *01/07/25*

STEPSIDE AGRI
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 CARDIGAN
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 SA43 3AD

V850

Please quote above code for all enquiries

STEPSIDE AGRI

LIQUID WASTE

SLURRY/SLUDGE ANALYSIS RESULTS

Sample Reference :

PENDERYN

Sample Matrix : SLURRY/SLUDGE

Laboratory References

Report Number	96965
Sample Number	168108

Date Received	20-JUN-2025
Date Reported	01-JUL-2025

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Total Zinc (Zn)	10.5	mg/kg
Total Sulphur (S)	96.6	mg/kg
Total Calcium (Ca)	29.3	mg/kg
Total Lead (Pb)	<0.5	mg/kg
Total Cadmium (Cd)	<0.01	mg/kg
Total Mercury (Hg)	<0.05	mg/kg
Total Nickel (Ni)	0.40	mg/kg
Total Chromium (Cr)	<0.2	mg/kg
Total Sodium (Na)	267	mg/kg
pH 1:6 [Fresh]	3.77	

Released by *Karen Mitchell*

Date *01/07/25*

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Laboratory References

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Date Received	20-JUN-2025
Date Reported	01-JUL-2025

The sample submitted was of adequate size to complete all analysis requested.

The sample will be kept under refrigeration for at least 3 weeks.

ANALYTICAL RESULTS *on 'as received' basis.*

Determinand	Value	Units
Organic Matter LOI	1.56	% w/w
Coliforms [fresh]	<10	cfu/g
B.O.D. [fresh]	19320	mg/l
C.O.D. [fresh]	31170	mg/kg
Oils,Fats and Grease	281	mg/kg
Salmonella spp [fresh]	Negative	in 25g
EC [Neat]	3583	uS/cm

Released by *Karen Mitchell*

Date *01/07/25*