

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

Analysis of Liquid Sludge

Sample Name: ARLA 1 - TEN

Report No: 54017-26

Sample No: SLUR181192

Date: 22/05/2026

Application rate (t/ha) 50.0
Application rate (t/acre) 20.2
pH 7.38
Dry solids (%) 0.64

NUTRIENT CONTENT

	result	units	Total		Available	
			(kg/t)	(kg/ha)	(kg/t)	(kg/ha)
Nitrogen (N)	0.03	%	0.3	15	0.1	3
Ammonium-N	71.6	mg/kg	0.1	4		
Phosphorus (P)	177	mg/kg	0.2	9		
Phosphate (P ₂ O ₅)			0.4	20	0.2	12
Potassium (K)	273	mg/kg	0.3	14		
Potash (K ₂ O)			0.3	16	0.3	13
Magnesium (Mg)	39	mg/kg	0.0	2		
Magnesium (MgO)			0.1	3	0.0	0
Sulphur (S)	43.6	mg/kg	0.0	2		
Sulphur (SO ₃)			0.1	5	0.0	1

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	0.20	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 zinc, 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 1 - TEN

Report No: 54017-26

Sample No: SLUR181192

Date: 22/05/2026

Application rate (t/ha) 65.0
Application rate (t/acre) 26.3
pH 7.38
Dry solids (%) 0.64

NUTRIENT CONTENT

	result	units	Total		Available	
			(kg/t)	(kg/ha)	(kg/t)	(kg/ha)
Nitrogen (N)	0.03	%	0.3	20	0.1	4
Ammonium-N	71.6	mg/kg	0.1	5		
Phosphorus (P)	177	mg/kg	0.2	12		
Phosphate (P ₂ O ₅)			0.4	26	0.2	16
Potassium (K)	273	mg/kg	0.3	18		
Potash (K ₂ O)			0.3	21	0.3	17
Magnesium (Mg)	39	mg/kg	0.0	3		
Magnesium (MgO)			0.1	4	0.0	0
Sulphur (S)	43.6	mg/kg	0.0	3		
Sulphur (SO ₃)			0.1	7	0.0	1

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	0.20	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 zinc, 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 1 - TEN

Report No: 54017-26

Sample No: SLUR181192

Date: 22/05/2026

Application rate (t/ha) 100.0
Application rate (t/acre) 40.5
pH 7.38
Dry solids (%) 0.64

NUTRIENT CONTENT

	result	units	Total		Available	
			(kg/t)	(kg/ha)	(kg/t)	(kg/ha)
Nitrogen (N)	0.03	%	0.3	30	0.1	6
Ammonium-N	71.6	mg/kg	0.1	7		
Phosphorus (P)	177	mg/kg	0.2	18		
Phosphate (P ₂ O ₅)			0.4	41	0.2	24
Potassium (K)	273	mg/kg	0.3	27		
Potash (K ₂ O)			0.3	33	0.3	26
Magnesium (Mg)	39	mg/kg	0.0	4		
Magnesium (MgO)			0.1	6	0.0	1
Sulphur (S)	43.6	mg/kg	0.0	4		
Sulphur (SO ₃)			0.1	11	0.0	2

POTENTIALLY TOXIC ELEMENTS

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

All results expressed on sample as received. The zinc, 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	54017-26	W138	RE-ORGANICS	Client	STEPSIDE AGRI
Date Received	22-MAY-2026		CONSULTING LTD		THE OLD CATTLE MART
Date Reported	03-JUN-2026		APPLE BARN		STATION ROAD
Project	LIQUID WASTE		ELTON LANE		CARDIGAN
Reference	STEPSIDE AGRI		NEWNHAM		SA43 3AD
Order Number			GLOS GL14 1JJ		

Laboratory Reference		SLUR181192	SLUR181193								
Sample Reference		ARLA 1 - TEN									
Determinand	Unit	SLURRY/SLUDGE									
Oven Dry Solids	%	0.640									
Conductivity 1:6	uS/cm	457									
Total Kjeldahl Nitrogen	% w/w	0.03									
Nitrate Nitrogen	mg/kg	<10									
Ammonium Nitrogen	mg/kg	71.6									
Total Phosphorus (P)	mg/kg	177									
Total Potassium (K)	mg/kg	273									
Total Magnesium (Mg)	mg/kg	39.0									
Total Copper (Cu)	mg/kg	<0.2									
Total Zinc (Zn)	mg/kg	<0.5									
Total Sulphur (S)	mg/kg	43.6									
Total Calcium (Ca)	mg/kg	337									
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	213									
pH 1:6 [Fresh]		7.38									
B.O.D. [fresh]	mg/l	903									
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	54017-26	W138 RE-ORGANICS	Client STEPSIDE AGRI
Date Received	22-MAY-2026	CONSULTING LTD	THE OLD CATTLE MART
Date Reported	03-JUN-2026	APPLE BARN	STATION ROAD
Project	LIQUID WASTE	ELTON LANE	CARDIGAN
Reference	STEPSIDE AGRI	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		