VOLAC, FELINFACH

Analysis of Liquid Waste

Report No: 99545
Date: 28/05/2020

Application rate (t/ha)	**61.0**
Application rate (t/acre)	**24.7**
pH	**6.47**
Dry solids (%)	**1.04**
Organic Matter(%)	**0.36**

NUTRIENT CONTENT

			Total		Available	
	result	units	(kg/t)	(kg/ha)	(kg/t)	(kg/ha)
Nitrogen (N)	0.06	%	0.6	37	0.1	7
Ammonium-N	519	mg/kg	0.5	32		
Phosphorus (P)	275	mg/kg	0.3	17		
Phosphate (P_2O_5)			0.6	38	0.4	23
Potassium (K)	1199	mg/kg	1.2	73		
Potash (K_2O)			1.4	88	1.2	70
Magnesium (Mg)	73.4	mg/kg	0.1	4		
Magnesium (MgO)			0.1	7	0.0	1
Sulphur (S)	62	mg/kg	0.1	4		
Sulphur (SO_3)			0.2	9	0.0	2

POTENTIALLY TOXIC ELEMENTS

			Rate		Limit
	result	units	(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	3.33	mg/kg	3.33	0.20	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

VOLAC, FELINFACH

Analysis of Liquid Waste

Report No: 99545
Date: 28/05/2020

Application rate (t/ha)	**46.0**
Application rate (t/acre)	**18.6**
pH	**6.47**
Dry solids (%)	**1.04**
Organic Matter(%)	**0.36**

NUTRIENT CONTENT

			Total		Available	
	result	**units**	**(kg/t)**	**(kg/ha)**	**(kg/t)**	**(kg/ha)**
Nitrogen (N)	0.06	%	0.6	28	0.1	6
Ammonium-N	519	mg/kg	0.5	24		
Phosphorus (P)	275	mg/kg	0.3	13		
Phosphate (P_2O_5)			0.6	29	0.4	17
Potassium (K)	1199	mg/kg	1.2	55		
Potash (K_2O)			1.4	66	1.2	53
Magnesium (Mg)	73.4	mg/kg	0.1	3		
Magnesium (MgO)			0.1	6	0.0	1
Sulphur (S)	62	mg/kg	0.1	3		
Sulphur (SO_3)			0.2	7	0.0	1

POTENTIALLY TOXIC ELEMENTS

			Rate		Limit
	result	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	3.33	mg/kg	3.33	0.15	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	0.02	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

FIRST MILK, HAVERFORDWEST

Analysis of Liquid Waste

Report No: 19447
Date: 21/08/2020

Application rate (t/ha)	**30.0**
Application rate (t/acre)	**12.1**
pH	**5.77**
Dry solids (%)	**3.15**
Organic Matter(%)	**2.25**

NUTRIENT CONTENT

			Total		Available	
	result	**units**	**(kg/t)**	**(kg/ha)**	**(kg/t)**	**(kg/ha)**
Nitrogen (N)	0.12	%	1.2	36	0.2	7
Ammonium-N	109	mg/kg	0.1	3		
Phosphorus (P)	531	mg/kg	0.5	16		
Phosphate (P_2O_5)			1.2	36	0.7	22
Potassium (K)	265	mg/kg	0.3	8		
Potash (K_2O)			0.3	10	0.3	8
Magnesium (Mg)	82.2	mg/kg	0.1	2		
Magnesium (MgO)			0.1	4	0.0	0
Sulphur (S)	129	mg/kg	0.1	4		
Sulphur (SO_3)			0.3	10	0.1	2

POTENTIALLY TOXIC ELEMENTS

			Rate		Limit
	result	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	8.43	mg/kg	8.43	0.25	15.00
Copper	0.24	mg/kg	0.24	0.01	7.50
Nickel	0.20	mg/kg	0.20	0.01	3.00
Lead	0.50	mg/kg	0.50	0.02	15.00
Cadmium	0.01	mg/kg	0.01	0.00	0.15
Chromium	0.66	mg/kg	0.66	0.02	15.00
Mercury	0.05	mg/kg	0.05	0.00	0.10

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

FIRST MILK, HAVERFORDWEST

Analysis of Liquid Waste

Report No: 19447
Date: 21/08/2020

Application rate (t/ha)	**23.0**
Application rate (t/acre)	**9.3**
pH	**5.77**
Dry solids (%)	**3.15**
Organic Matter(%)	**2.25**

NUTRIENT CONTENT

			Total		Available	
	result	**units**	**(kg/t)**	**(kg/ha)**	**(kg/t)**	**(kg/ha)**
Nitrogen (N)	0.12	%	1.2	28	0.2	6
Ammonium-N	109	mg/kg	0.1	3		
Phosphorus (P)	531	mg/kg	0.5	12		
Phosphate (P_2O_5)			1.2	28	0.7	17
Potassium (K)	265	mg/kg	0.3	6		
Potash (K_2O)			0.3	7	0.3	6
Magnesium (Mg)	82.2	mg/kg	0.1	2		
Magnesium (MgO)			0.1	3	0.0	0
Sulphur (S)	129	mg/kg	0.1	3		
Sulphur (SO_3)			0.3	7	0.1	1

POTENTIALLY TOXIC ELEMENTS

			Rate		Limit
	result	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	8.43	mg/kg	8.43	0.19	15.00
Copper	0.24	mg/kg	0.24	0.01	7.50
Nickel	0.20	mg/kg	0.20	0.00	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	0.66	mg/kg	0.66	0.02	15.00
Mercury	0.05	mg/kg	0.05	0.00	0.10

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