

DŴR CYMRU - WELSH WATER

Portis LQ

Analysis of Water Treatment Works Sludge

14/05/2018

360173

Application rate (t/ha) 250
Application rate (t/acre) 100.0
pH 6.6
Dry solids (%) 2.2

NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	(kg/ha)	(kg/tonne)	(kg/ha)
Nitrogen (N)	0.89	%	0.20	49.17	0.006	1.5
Ammonium-N	277	mg/kg	0.01	1.53		
Phosphorus (P)	58.4	mg/kg	0.00			
Phosphate (P ₂ O ₅)			0.00	0.7	0.001	0.1
Potassium (K)	87	mg/kg	0.00			
Potash (K ₂ O)			0.00	0.6	0.000	0.1
Magnesium (Mg)	77	mg/kg	0.00			
Magnesium (MgO)			0.00	0.7	0.001	0.1
Sulphur (S)	4740	mg/kg	0.10			
Sulphur (SO ₃)			0.26	65.5	0.026	6.5

POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Rate		Limit
			(kg/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	32.1	mg/kg	0.00	0.18	15.00
Copper	14.3	mg/kg	0.00	0.08	7.50
Nickel	5.10	mg/kg	0.00	0.03	3.00
Lead	22.50	mg/kg	0.00	0.12	15.00
Cadmium	0.25	mg/kg	0.00	0.00	0.15
Chromium	4.3	mg/kg	0.00	0.02	15.00
Arsenic	43.4	mg/kg	0.00	0.240	0.70
Mercury	0.91	mg/kg	0.00	0.01	0.10
Other Elements					
Aluminium	161700	mg/kg	3.57	893	
Iron	4960	mg/kg	0.11	27	

To convert from kg/tonne to units/ton multiply by 2

To convert from kg/ha to units/acre multiply by 0.8