DŴR CYMRU - WELSH WATER

Glascoed

Analysis of Water Treatment Works Sludge

Date: 02 May 2018

Application rate (t/ha)	**168**	Lab ref.	798039
Application rate (t/acre)	**67.2**		
pH	**6.2**		
Dry solids (%)	**14.3**		
Organic matter content (%)			

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	1.04	%	1.49	249.85	0.039	6.5
Ammonium-N	270	mg/kg	0.04	6.49		
Phosphorus (P)	1030	mg/kg	0.15			
Phosphate (P_2O_5)			0.34	57	0.067	11.3
Potassium (K)	129	mg/kg	0.02			
Potash (K_2O)			0.02	4	0.004	0.7
Magnesium (Mg)	593	mg/kg	0.08			
Magnesium (MgO)			0.14	24	0.028	4.7
Sulphur (S)	2790	mg/kg	0.40			
Sulphur (SO_3)			1.00	168	0.100	16.8

POTENTIALLY TOXIC ELEMENTS

			Rate		Limit
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	116	mg/kg	0.02	2.79	15.00
Copper	21.6	mg/kg	0.00	0.52	7.50
Nickel	20.60	mg/kg	0.00	0.49	3.00
Lead	14.40	mg/kg	0.00	0.35	15.00
Cadmium	0.14	mg/kg	0.00	0.00	0.15
Chromium	14.6	mg/kg	0.00	0.35	15.00
Arsenic	2.2	mg/kg	0.00	0.05	0.70
Mercury	0.15	mg/kg	0.00	0.00	0.10
Other Elements					
Aluminium	1940	mg/kg	0.28	47	
Iron	#####	mg/kg	59.06	9922	

To convert from kg/tonne to units/ton multiply by 2
To convert from kg/ha to units/acre multiply by 0.8