DŴR CYMRU - WELSH WATER

Mynydd Llandegai

Analysis of Water Treatment Works Sludge

Date: 02 May 2018

Application rate (t/ha)	**250**	Lab ref. S 4168859
Application rate (t/acre)	**100.0**	
pH	**6.7**	
Dry solids (%)	**1.2**	
Organic matter content (%)	**40.00**	

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.898	%	0.11	26.94	0.019	4.9
Ammonium-N	1620	mg/kg	0.02	4.86		
Phosphorus (P)	1470	mg/kg	0.02			
Phosphate (P_2O_5)			0.04	10	0.008	2.0
Potassium (K)	87	mg/kg	0.00			
Potash (K_2O)			0.00	0	0.000	0.1
Magnesium (Mg)	450	mg/kg	0.01			
Magnesium (MgO)			0.01	2	0.002	0.4
Sulphur (S)	21200	mg/kg	0.25			
Sulphur (SO_3)			0.64	159	0.064	15.9

POTENTIALLY TOXIC ELEMENTS

			Rate		Limit
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	67.4	mg/kg	0.00	0.20	15.00
Copper	79	mg/kg	0.00	0.24	7.50
Nickel	5.10	mg/kg	0.00	0.02	3.00
Lead	6.20	mg/kg	0.00	0.02	15.00
Cadmium	0.11	mg/kg	0.00	0.00	0.15
Chromium	4.3	mg/kg	0.00	0.01	15.00
Arsenic	25.2	mg/kg	0.00	0.08	0.70
Mercury	1.68	mg/kg	0.00	0.01	0.10
Other Elements					
Aluminium	3E+05	mg/kg	3.89	974	
Iron	3630	mg/kg	0.04	11	

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