Waste Interpretations – Cae Gwyn 2026

DCWW

Analysis of Alaw sludge cake

Date: 28/11/2025 Sample no. 8613416

Application rate (t/ha)	**144**
Application rate (t/acre)	**57.6**
pH	**6.8**
Dry solids (%)	**11.3**
Organic matter (%)	**43.1**

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	1.53	%	1.73	249.0	0.0651	9.4
Ammonium-N	576	mg/kg	0.07	9.4		
Phosphorus (P)	0.26	%	0.29	42.3		
Phosphate (P^2O^5)			0.67	96.5	0.3	48.2
Potassium (K)	0.04	%	0.05	7.1		
Potash (K^2O)			0.06	8.5	0.1	7.7
Magnesium (Mg)	463	mg/kg	0.05	7.5		
Magnesium (MgO)			0.08	12.1	0.0	3.0
Sulphur (S)	9560	mg/kg	1.08	155.6		
Sulphur (SO_3)			2.70	388.9	0.3	38.9
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

			Amount		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	54.7	mg/kg	6.2	0.89	15.00
Copper	34.7	mg/kg	3.92	0.56	7.50
Nickel	22.7	mg/kg	2.57	0.37	3.00
Lead	27.6	mg/kg	3.12	0.45	15.00
Cadmium	0.49	mg/kg	0.06	0.01	0.15
Chromium	19.1	mg/kg	2.16	0.31	15.00
Mercury	0.4	mg/kg	0.05	0.01	0.10
Arsenic	11.3	mg/kg	1.28	0.18	0.70
Aluminium	186000	mg/kg	21018	3026.6	
Iron	7510	mg/kg	849	122.2	

DCWW

Analysis of Alwen sludge

Date: 12/12/2025 Sample no. 8630916

Application rate (t/ha)	**150**
Application rate (t/acre)	**60.0**
pH	**4.8**
Dry solids (%)	**18.4**
Organic matter (%)	**42.5**

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.69	%	1.27	190.2	0.006	0.9
Ammonium-N	33	mg/kg	0.01	0.9		
Phosphorus (P)	0.16	%	0.29	43.1		
Phosphate (P_2O_5)			0.65	98.2	0.3	49.1
Potassium (K)	0.02	%	0.04	6.4		
Potash (K_2O)			0.05	7.7	0.0	6.9
Magnesium (Mg)	252	mg/kg	0.05	7.0		
Magnesium (MgO)			0.07	11.1	0.0	2.8
Sulphur (S)	11200	mg/kg	2.06	309.1		
Sulphur (SO_3)			5.15	772.8	0.5	77.3
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

			Amount		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	126.0	mg/kg	23.2	3.48	15.00
Copper	20.8	mg/kg	3.83	0.57	7.50
Nickel	17.5	mg/kg	3.22	0.48	3.00
Lead	25.0	mg/kg	4.60	0.69	15.00
Cadmium	0.29	mg/kg	0.05	0.01	0.15
Chromium	24.9	mg/kg	4.58	0.69	15.00
Mercury	0.3	mg/kg	0.05	0.01	0.10
Arsenic	13.1	mg/kg	2.41	0.36	0.70
Aluminium	2400	mg/kg	442	66.2	
Iron	394000	mg/kg	72496	10874.4	

DCWW

Analysis of Alwen sludge

Date: 12/12/2025 Sample no. 8630916

Application rate (t/ha)	**197**
Application rate (t/acre)	**78.8**
pH	**4.8**
Dry solids (%)	**18.4**
Organic matter (%)	**42.5**

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.69	%	1.27	249.7	0.006	1.2
Ammonium-N	33	mg/kg	0.01	1.2		
Phosphorus (P)	0.16	%	0.29	56.5		
Phosphate (P_2O_5)			0.65	128.9	0.3	64.5
Potassium (K)	0.02	%	0.04	8.4		
Potash (K_2O)			0.05	10.1	0.0	9.1
Magnesium (Mg)	252	mg/kg	0.05	9.1		
Magnesium (MgO)			0.07	14.6	0.0	3.7
Sulphur (S)	11200	mg/kg	2.06	406.0		
Sulphur (SO_3)			5.15	1014.9	0.5	101.5
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

			Amount		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	126.0	mg/kg	23.2	4.57	15.00
Copper	20.8	mg/kg	3.83	0.75	7.50
Nickel	17.5	mg/kg	3.22	0.63	3.00
Lead	25.0	mg/kg	4.60	0.91	15.00
Cadmium	0.29	mg/kg	0.05	0.01	0.15
Chromium	24.9	mg/kg	4.58	0.90	15.00
Mercury	0.3	mg/kg	0.05	0.01	0.10
Arsenic	13.1	mg/kg	2.41	0.47	0.70
Aluminium	2400	mg/kg	442	87.0	
Iron	394000	mg/kg	72496	14281.7	

DCWW

Analysis of Glascoed sludge

Date: 12/12/2025 Sample no. 8630912

Application rate (t/ha)	**150**
Application rate (t/acre)	**60.0**
pH	**6.9**
Dry solids (%)	**15.2**
Organic matter (%)	**30.6**

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.74	%	1.13	169.6	0.0061	0.9
Ammonium-N	40.2	mg/kg	0.01	0.9		
Phosphorus (P)	0.19	%	0.29	43.8		
Phosphate (P_2O_5)			0.67	99.8	0.3	49.9
Potassium (K)	0.11	%	0.17	25.3		
Potash (K_2O)			0.20	30.4	0.2	27.3
Magnesium (Mg)	2340	mg/kg	0.36	53.4		
Magnesium (MgO)			0.57	85.4	0.1	21.3
Sulphur (S)	1730	mg/kg	0.26	39.4		
Sulphur (SO_3)			0.66	98.6	0.1	9.9
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

			Amount		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	297.0	mg/kg	45.1	6.77	15.00
Copper	31.9	mg/kg	4.85	0.73	7.50
Nickel	36.5	mg/kg	5.55	0.83	3.00
Lead	27.1	mg/kg	4.12	0.62	15.00
Cadmium	0.36	mg/kg	0.05	0.01	0.15
Chromium	28.8	mg/kg	4.38	0.66	15.00
Mercury	0.3	mg/kg	0.05	0.01	0.10
Arsenic	24.7	mg/kg	3.75	0.56	0.70
Aluminium	7710	mg/kg	1172	175.8	
Iron	396000	mg/kg	60192	9028.8	

Analysis of Glascoed sludge

Date: 12/12/2025 Sample no. 8630912

Application rate (t/ha)	**186**
Application rate (t/acre)	**74.4**
pH	**6.9**
Dry solids (%)	**15.2**
Organic matter (%)	**30.6**

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.74	%	1.13	210.3	0.0061	1.1
Ammonium-N	40.2	mg/kg	0.01	1.1		
Phosphorus (P)	0.19	%	0.29	54.3		
Phosphate (P_2O_5)			0.67	123.8	0.3	61.9
Potassium (K)	0.11	%	0.17	31.4		
Potash (K_2O)			0.20	37.7	0.2	33.9
Magnesium (Mg)	2340	mg/kg	0.36	66.2		
Magnesium (MgO)			0.57	105.9	0.1	26.5
Sulphur (S)	1730	mg/kg	0.26	48.9		
Sulphur (SO_3)			0.66	122.3	0.1	12.2
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

			Amount		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	297.0	mg/kg	45.1	8.40	15.00
Copper	31.9	mg/kg	4.85	0.90	7.50
Nickel	36.5	mg/kg	5.55	1.03	3.00
Lead	27.1	mg/kg	4.12	0.77	15.00
Cadmium	0.36	mg/kg	0.05	0.01	0.15
Chromium	28.8	mg/kg	4.38	0.81	15.00
Mercury	0.3	mg/kg	0.05	0.01	0.10
Arsenic	24.7	mg/kg	3.75	0.698	0.70
Aluminium	7710	mg/kg	1172	218.0	
Iron	396000	mg/kg	60192	11195.7	