Waste Interpretations – The Dderw (2025)

DCWW

Analysis of Talybont Sludge

Date: 10/07/2025 Sample no. 8443884

Application rate (t/ha)	**250**
Application rate (t/acre)	**100.0**
pH	**6.6**
Dry solids (%)	**6.8**
Organic matter (%)	**50.6**

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.85	%	0.58	144.8	0.014	3.5
Ammonium-N	204	mg/kg	0.01	3.5		
Phosphorus (P)	0.17	%	0.12	29.2		
Phosphate (P^2O^5)			0.27	66.7	0.1	33.3
Potassium (K)	0.03	%	0.02	5.2		
Potash (K^2O)			0.02	6.2	0.0	5.6
Magnesium (Mg)	640	mg/kg	0.04	10.9		
Magnesium (MgO)			0.07	17.4	0.0	4.4
Sulphur (S)	4730	mg/kg	0.32	80.4		
Sulphur (SO_3)			0.80	201.0	0.1	20.1
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

			Amount		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	146.0	mg/kg	9.9	2.48	15.00
Copper	64.7	mg/kg	4.40	1.10	7.50
Nickel	20.5	mg/kg	1.39	0.35	3.00
Lead	18.3	mg/kg	1.24	0.31	15.00
Cadmium	0.43	mg/kg	0.03	0.01	0.15
Chromium	12.7	mg/kg	0.86	0.22	15.00
Mercury	0.3	mg/kg	0.02	0.01	0.10
Arsenic	18.8	mg/kg	1.28	0.32	0.70
Aluminium	70100	mg/kg	4767	1191.7	
Iron	5090	mg/kg	346	86.5	

DCWW

Analysis of Talybont Sludge

Date: 10/07/2025 Sample no. 8443884

Application rate (t/ha)	**243**
Application rate (t/acre)	**97.2**
pH	**6.6**
Dry solids (%)	**6.8**
Organic matter (%)	**50.6**

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.85	%	0.58	140.8	0.014	3.4
Ammonium-N	204	mg/kg	0.01	3.4		
Phosphorus (P)	0.17	%	0.12	28.4		
Phosphate (P_2O_5)			0.27	64.8	0.1	32.4
Potassium (K)	0.03	%	0.02	5.0		
Potash (K_2O)			0.02	6.0	0.0	5.4
Magnesium (Mg)	640	mg/kg	0.04	10.6		
Magnesium (MgO)			0.07	16.9	0.0	4.2
Sulphur (S)	4730	mg/kg	0.32	78.2		
Sulphur (SO_3)			0.80	195.4	0.1	19.5
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

			Amount		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	146.0	mg/kg	9.9	2.41	15.00
Copper	64.7	mg/kg	4.40	1.07	7.50
Nickel	20.5	mg/kg	1.39	0.34	3.00
Lead	18.3	mg/kg	1.24	0.30	15.00
Cadmium	0.43	mg/kg	0.03	0.01	0.15
Chromium	12.7	mg/kg	0.86	0.21	15.00
Mercury	0.3	mg/kg	0.02	0.00	0.10
Arsenic	18.8	mg/kg	1.28	0.31	0.70
Aluminium	70100	mg/kg	4767	1158.3	
Iron	5090	mg/kg	346	84.1	

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Analysis of Talybont Sludge

Date: 10/07/2025 Sample no. 8443884

Application rate (t/ha)	**122**
Application rate (t/acre)	**48.8**
pH	**6.6**
Dry solids (%)	**6.8**
Organic matter (%)	**50.6**

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.85	%	0.58	70.7	0.014	1.7
Ammonium-N	204	mg/kg	0.01	1.7		
Phosphorus (P)	0.17	%	0.12	14.3		
Phosphate (P_2O_5)			0.27	32.5	0.1	16.3
Potassium (K)	0.03	%	0.02	2.5		
Potash (K_2O)			0.02	3.0	0.0	2.7
Magnesium (Mg)	640	mg/kg	0.04	5.3		
Magnesium (MgO)			0.07	8.5	0.0	2.1
Sulphur (S)	4730	mg/kg	0.32	39.2		
Sulphur (SO_3)			0.80	98.1	0.1	9.8
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

			Amount		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	146.0	mg/kg	9.9	1.21	15.00
Copper	64.7	mg/kg	4.40	0.54	7.50
Nickel	20.5	mg/kg	1.39	0.17	3.00
Lead	18.3	mg/kg	1.24	0.15	15.00
Cadmium	0.43	mg/kg	0.03	0.00	0.15
Chromium	12.7	mg/kg	0.86	0.11	15.00
Mercury	0.3	mg/kg	0.02	0.00	0.10
Arsenic	18.8	mg/kg	1.28	0.16	0.70
Aluminium	70100	mg/kg	4767	581.5	
Iron	5090	mg/kg	346	42.2	

DCWW

Analysis of Elan Valley Sludge

Date: 10/07/2025 Sample no. 8443903

Application rate (t/ha)	**250**
Application rate (t/acre)	**100.0**
pH	**7.0**
Dry solids (%)	**4.5**
Organic matter (%)	**34.0**

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.88	%	0.39	98.6	0.020	5.0
Ammonium-N	442	mg/kg	0.02	5.0		
Phosphorus (P)	0.36	%	0.16	41.0		
Phosphate (P_2O_5)			0.37	93.4	0.2	46.7
Potassium (K)	0.04	%	0.02	4.4		
Potash (K_2O)			0.02	5.3	0.0	4.7
Magnesium (Mg)	719	mg/kg	0.03	8.1		
Magnesium (MgO)			0.05	12.9	0.0	3.2
Sulphur (S)	3860	mg/kg	0.17	43.4		
Sulphur (SO_3)			0.43	108.6	0.0	10.9
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

			Amount		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	320.0	mg/kg	14.4	3.60	15.00
Copper	35.0	mg/kg	1.58	0.39	7.50
Nickel	22.9	mg/kg	1.03	0.26	3.00
Lead	62.9	mg/kg	2.83	0.71	15.00
Cadmium	0.49	mg/kg	0.02	0.01	0.15
Chromium	33.4	mg/kg	1.50	0.38	15.00
Mercury	0.5	mg/kg	0.02	0.01	0.10
Arsenic	45.6	mg/kg	2.05	0.51	0.70
Aluminium	4790	mg/kg	216	53.9	
Iron	404000	mg/kg	18180	4545.0	

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Analysis of Elan Valley Sludge

Date: 10/07/2025 Sample no. 8443903

Application rate (t/ha)	**174**
Application rate (t/acre)	**69.6**
pH	**7.0**
Dry solids (%)	**4.5**
Organic matter (%)	**34.0**

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.88	%	0.39	68.6	0.020	3.5
Ammonium-N	442	mg/kg	0.02	3.5		
Phosphorus (P)	0.36	%	0.16	28.5		
Phosphate (P_2O_5)			0.37	65.0	0.2	32.5
Potassium (K)	0.04	%	0.02	3.1		
Potash (K_2O)			0.02	3.7	0.0	3.3
Magnesium (Mg)	719	mg/kg	0.03	5.6		
Magnesium (MgO)			0.05	9.0	0.0	2.3
Sulphur (S)	3860	mg/kg	0.17	30.2		
Sulphur (SO_3)			0.43	75.6	0.0	7.6
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

			Amount		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	320.0	mg/kg	14.4	2.51	15.00
Copper	35.0	mg/kg	1.58	0.27	7.50
Nickel	22.9	mg/kg	1.03	0.18	3.00
Lead	62.9	mg/kg	2.83	0.49	15.00
Cadmium	0.49	mg/kg	0.02	0.00	0.15
Chromium	33.4	mg/kg	1.50	0.26	15.00
Mercury	0.5	mg/kg	0.02	0.00	0.10
Arsenic	45.6	mg/kg	2.05	0.36	0.70
Aluminium	4790	mg/kg	216	37.5	
Iron	404000	mg/kg	18180	3163.3	

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Analysis of Elan Valley Sludge

Date: 10/07/2025 Sample no. 8443903

Application rate (t/ha)	**87**
Application rate (t/acre)	**34.8**
pH	**7.0**
Dry solids (%)	**4.5**
Organic matter (%)	**34.0**

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.88	%	0.39	34.3	0.020	1.7
Ammonium-N	442	mg/kg	0.02	1.7		
Phosphorus (P)	0.36	%	0.16	14.3		
Phosphate (P_2O_5)			0.37	32.5	0.2	16.2
Potassium (K)	0.04	%	0.02	1.5		
Potash (K_2O)			0.02	1.8	0.0	1.6
Magnesium (Mg)	719	mg/kg	0.03	2.8		
Magnesium (MgO)			0.05	4.5	0.0	1.1
Sulphur (S)	3860	mg/kg	0.17	15.1		
Sulphur (SO_3)			0.43	37.8	0.0	3.8
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

			Amount		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	320.0	mg/kg	14.4	1.25	15.00
Copper	35.0	mg/kg	1.58	0.14	7.50
Nickel	22.9	mg/kg	1.03	0.09	3.00
Lead	62.9	mg/kg	2.83	0.25	15.00
Cadmium	0.49	mg/kg	0.02	0.00	0.15
Chromium	33.4	mg/kg	1.50	0.13	15.00
Mercury	0.5	mg/kg	0.02	0.00	0.10
Arsenic	45.6	mg/kg	2.05	0.18	0.70
Aluminium	4790	mg/kg	216	18.8	
Iron	404000	mg/kg	18180	1581.7	

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Analysis of Elan Valley Sludge

Date: 10/07/2025 Sample no. 8443903

Application rate (t/ha)	**43**
Application rate (t/acre)	**17.2**
pH	**7.0**
Dry solids (%)	**4.5**
Organic matter (%)	**34.0**

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.88	%	0.39	17.0	0.020	0.9
Ammonium-N	442	mg/kg	0.02	0.9		
Phosphorus (P)	0.36	%	0.16	7.0		
Phosphate (P_2O_5)			0.37	16.1	0.2	8.0
Potassium (K)	0.04	%	0.02	0.8		
Potash (K_2O)			0.02	0.9	0.0	0.8
Magnesium (Mg)	719	mg/kg	0.03	1.4		
Magnesium (MgO)			0.05	2.2	0.0	0.6
Sulphur (S)	3860	mg/kg	0.17	7.5		
Sulphur (SO_3)			0.43	18.7	0.0	1.9
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

			Amount		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	320.0	mg/kg	14.4	0.62	15.00
Copper	35.0	mg/kg	1.58	0.07	7.50
Nickel	22.9	mg/kg	1.03	0.04	3.00
Lead	62.9	mg/kg	2.83	0.12	15.00
Cadmium	0.49	mg/kg	0.02	0.00	0.15
Chromium	33.4	mg/kg	1.50	0.06	15.00
Mercury	0.5	mg/kg	0.02	0.00	0.10
Arsenic	45.6	mg/kg	2.05	0.09	0.70
Aluminium	4790	mg/kg	216	9.3	
Iron	404000	mg/kg	18180	781.7	

DCWW

Analysis of Llyswen sludge

Date: 20/06/2025 Sample no. 8420716

Application rate (t/ha)	**250**
Application rate (t/acre)	**100.0**
pH	**7.3**
Dry solids (%)	**4.1**
Organic matter (%)	**31.7**

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.90	%	0.37	92.8	0.00	0.1
Ammonium-N	6	mg/kg	0.00	0.1		
Phosphorus (P)	0.10	%	0.04	10.0		
Phosphate (P_2O_5)			0.09	22.8	0.0	11.4
Potassium (K)	0.09	%	0.04	9.5		
Potash (K_2O)			0.05	11.4	0.0	10.3
Magnesium (Mg)	2990	mg/kg	0.12	30.7		
Magnesium (MgO)			0.20	49.2	0.0	12.3
Sulphur (S)	4660	mg/kg	0.19	47.9		
Sulphur (SO_3)			0.48	119.7	0.0	12.0
Calcium (Ca)		mg/kg	0.0	0.0		

POTENTIALLY TOXIC ELEMENTS

			Amount		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	154.0	mg/kg	6.3	1.58	15.00
Copper	38.4	mg/kg	1.58	0.39	7.50
Nickel	16.9	mg/kg	0.69	0.17	3.00
Lead	9.5	mg/kg	0.39	0.10	15.00
Cadmium	0.23	mg/kg	0.01	0.00	0.15
Chromium	11.7	mg/kg	0.48	0.12	15.00
Mercury	1.0	mg/kg	0.04	0.01	0.10
Arsenic	16.9	mg/kg	0.69	0.17	0.70
Aluminium	124000	mg/kg	5096	1274.1	
Iron	22900	mg/kg	941	235.3	

Analysis of Biogen Digestate

Date: 12/08/2025 **Sample no. BP ST 12/08/25**

Application rate (t/ha)	**23**
Application rate (t/acre)	**9.2**
pH	**8.8**
Dry solids (%)	**6.55**
Organic matter content (%)	**3.5**
conductivity (µS/cm)	

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	1.07	%	10.70	246.1	8.08	185.8
Ammonium-N	8077	mg/kg	8.08	185.8		
Phosphorus (P)	724	mg/kg	0.72			
Phosphate (P_2O_5)			1.65	38.0	0.83	19.0
Potassium (K)	3911	mg/kg	3.91			
Potash (K_2O)			4.69	107.9	4.22	97.1
Magnesium (Mg)	38.4	mg/kg	0.04			
Magnesium (MgO)			0.06	1.4	0.01	0.3
Sulphur (S)	612	mg/kg	0.61			
Sulphur (SO_3)			1.53	35.2	0.31	7.0

POTENTIALLY TOXIC ELEMENTS

			Rate		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	14.4	mg/kg	14.4	0.33	15.00
Copper	2.91	mg/kg	2.9	0.07	7.50
Nickel	2.50	mg/kg	2.5	0.06	3.00
Lead	0.50	mg/kg	0.5	0.01	15.00
Cadmium	0.03	mg/kg	0.0	0.00	0.15
Chromium	0.94	mg/kg	0.9	0.02	15.00
Mercury	0.05	mg/kg	0.1	0.00	0.10

Analysis of Biogen Digestate

Date: 12/08/2025 **Sample no. BP ST 12/08/25**

Application rate (t/ha)	**19**
Application rate (t/acre)	**7.6**
pH	**8.8**
Dry solids (%)	**6.55**
Organic matter content (%)	**3.5**
conductivity (µS/cm)	

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	1.07	%	10.70	203.3	8.08	153.5
Ammonium-N	8077	mg/kg	8.08	153.5		
Phosphorus (P)	724	mg/kg	0.72			
Phosphate (P_2O_5)			1.65	31.4	0.83	15.7
Potassium (K)	3911	mg/kg	3.91			
Potash (K_2O)			4.69	89.2	4.22	80.3
Magnesium (Mg)	38.4	mg/kg	0.04			
Magnesium (MgO)			0.06	1.2	0.01	0.2
Sulphur (S)	612	mg/kg	0.61			
Sulphur (SO_3)			1.53	29.1	0.31	5.8

POTENTIALLY TOXIC ELEMENTS

			Rate		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	14.4	mg/kg	14.4	0.27	15.00
Copper	2.91	mg/kg	2.9	0.06	7.50
Nickel	2.50	mg/kg	2.5	0.05	3.00
Lead	0.50	mg/kg	0.5	0.01	15.00
Cadmium	0.03	mg/kg	0.0	0.00	0.15
Chromium	0.94	mg/kg	0.9	0.02	15.00
Mercury	0.05	mg/kg	0.1	0.00	0.10

Analysis of Biogen Digestate

Date: 12/08/2025 **Sample no. BP ST 12/08/25**

Application rate (t/ha)	**10**
Application rate (t/acre)	**4.0**
pH	**8.8**
Dry solids (%)	**6.55**
Organic matter content (%)	**3.5**
conductivity (µS/cm)	

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	1.07	%	10.70	107.0	8.08	80.8
Ammonium-N	8077	mg/kg	8.08	80.8		
Phosphorus (P)	724	mg/kg	0.72			
Phosphate (P_2O_5)			1.65	16.5	0.83	8.3
Potassium (K)	3911	mg/kg	3.91			
Potash (K_2O)			4.69	46.9	4.22	42.2
Magnesium (Mg)	38.4	mg/kg	0.04			
Magnesium (MgO)			0.06	0.6	0.01	0.1
Sulphur (S)	612	mg/kg	0.61			
Sulphur (SO_3)			1.53	15.3	0.31	3.1

POTENTIALLY TOXIC ELEMENTS

			Rate		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	14.4	mg/kg	14.4	0.14	15.00
Copper	2.91	mg/kg	2.9	0.03	7.50
Nickel	2.50	mg/kg	2.5	0.03	3.00
Lead	0.50	mg/kg	0.5	0.01	15.00
Cadmium	0.03	mg/kg	0.0	0.00	0.15
Chromium	0.94	mg/kg	0.9	0.01	15.00
Mercury	0.05	mg/kg	0.1	0.00	0.10

Analysis of Welsh Water Organic Energy Digestate

Date: 08/09/2025 **Sample no. DT 08/09/2025**

Application rate (t/ha)	**29**
Application rate (t/acre)	**11.6**
pH	**8.5**
Dry solids (%)	**6.21**
Organic matter content (%)	**3.5**
conductivity (µS/cm)	

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.85	%	8.50	246.5	5.63	163.2
Ammonium-N	5628	mg/kg	5.63	163.2		
Phosphorus (P)	915	mg/kg	0.92			
Phosphate (P_2O_5)			2.09	60.5	1.04	30.2
Potassium (K)	3055	mg/kg	3.06			
Potash (K_2O)			3.67	106.3	3.30	95.7
Magnesium (Mg)	84.5	mg/kg	0.08			5.0
Magnesium (MgO)			0.14	3.9	0.03	0.8
Sulphur (S)	491	mg/kg	0.49			
Sulphur (SO_3)			1.23	35.6	0.25	7.1

POTENTIALLY TOXIC ELEMENTS

			Rate		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	11.4	mg/kg	11.4	0.33	15.00
Copper	1.62	mg/kg	1.6	0.05	7.50
Nickel	1.38	mg/kg	1.4	0.04	3.00
Lead	0.50	mg/kg	0.5	0.01	15.00
Cadmium	0.03	mg/kg	0.0	0.00	0.15
Chromium	0.48	mg/kg	0.5	0.01	15.00
Mercury	0.05	mg/kg	0.1	0.00	0.10

Analysis of Welsh Water Organic Energy Digestate

Date: 08/09/2025 **Sample no. DT 08/09/2025**

Application rate (t/ha)	**15**
Application rate (t/acre)	**6.0**
pH	**8.5**
Dry solids (%)	**6.21**
Organic matter content (%)	**3.5**
conductivity (µS/cm)	

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.85	%	8.50	127.5	5.63	84.4
Ammonium-N	5628	mg/kg	5.63	84.4		
Phosphorus (P)	915	mg/kg	0.92			
Phosphate (P_2O_5)			2.09	31.3	1.04	15.6
Potassium (K)	3055	mg/kg	3.06			
Potash (K_2O)			3.67	55.0	3.30	49.5
Magnesium (Mg)	84.5	mg/kg	0.08			5.0
Magnesium (MgO)			0.14	2.0	0.03	0.4
Sulphur (S)	491	mg/kg	0.49			
Sulphur (SO_3)			1.23	18.4	0.25	3.7

POTENTIALLY TOXIC ELEMENTS

			Rate		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	11.4	mg/kg	11.4	0.17	15.00
Copper	1.62	mg/kg	1.6	0.02	7.50
Nickel	1.38	mg/kg	1.4	0.02	3.00
Lead	0.50	mg/kg	0.5	0.01	15.00
Cadmium	0.03	mg/kg	0.0	0.00	0.15
Chromium	0.48	mg/kg	0.5	0.01	15.00
Mercury	0.05	mg/kg	0.1	0.00	0.10

Analysis of Welsh Water Organic Energy Digestate

Date: 08/09/2025 **Sample no. DT 08/09/2025**

Application rate (t/ha)	**8**
Application rate (t/acre)	**3.2**
pH	**8.5**
Dry solids (%)	**6.21**
Organic matter content (%)	**3.5**
conductivity (µS/cm)	

NUTRIENT CONTENT

			Total		Available	
TOTALS	**result**	**units**	**(kg/tonne)**	**(kg/ha)**	**(kg/tonne)**	**(kg/ha)**
Nitrogen (N)	0.85	%	8.50	68.0	5.63	45.0
Ammonium-N	5628	mg/kg	5.63	45.0		
Phosphorus (P)	915	mg/kg	0.92			
Phosphate (P_2O_5)			2.09	16.7	1.04	8.3
Potassium (K)	3055	mg/kg	3.06			
Potash (K_2O)			3.67	29.3	3.30	26.4
Magnesium (Mg)	84.5	mg/kg	0.08			5.0
Magnesium (MgO)			0.14	1.1	0.03	0.2
Sulphur (S)	491	mg/kg	0.49			
Sulphur (SO_3)			1.23	9.8	0.25	2.0

POTENTIALLY TOXIC ELEMENTS

			Rate		Limit
TOTALS	**result**	**units**	**(g/tonne)**	**(kg/ha)**	**(kg/ha/yr)**
Zinc	11.4	mg/kg	11.4	0.09	15.00
Copper	1.62	mg/kg	1.6	0.01	7.50
Nickel	1.38	mg/kg	1.4	0.01	3.00
Lead	0.50	mg/kg	0.5	0.00	15.00
Cadmium	0.03	mg/kg	0.0	0.00	0.15
Chromium	0.48	mg/kg	0.5	0.00	15.00
Mercury	0.05	mg/kg	0.1	0.00	0.10