

# Waste Interpretations – Rosedew 2026

## DCWW

### Analysis of Elan Valley Sludge

Date: 10/07/2025

Sample no. 8443903

Application rate (t/ha)	75
Application rate (t/acre)	30.0
pH	7.0
Dry solids (%)	4.5
Organic matter (%)	34.0

#### NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	( kg/ha)	(kg/tonne)	( kg/ha)
Nitrogen (N)	0.88	%	0.39	29.6	0.020	1.5
Ammonium-N	442	mg/kg	0.02	1.5		
Phosphorus (P)	0.36	%	0.16	12.3		
Phosphate (P <sub>2</sub> O <sub>5</sub> )			0.37	28.0	0.2	14.0
Potassium (K)	0.04	%	0.02	1.3		
Potash (K <sub>2</sub> O)			0.02	1.6	0.0	1.4
Magnesium (Mg)	719	mg/kg	0.03	2.4		
Magnesium (MgO)			0.05	3.9	0.0	1.0
Sulphur (S)	3860	mg/kg	0.17	13.0		
Sulphur (SO <sub>3</sub> )			0.43	32.6	0.0	3.3
Calcium (Ca)		mg/kg	0.0	0.0		

#### POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Amount		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	320.0	mg/kg	14.4	1.08	15.00
Copper	35.0	mg/kg	1.58	0.12	7.50
Nickel	22.9	mg/kg	1.03	0.08	3.00
Lead	62.9	mg/kg	2.83	0.21	15.00
Cadmium	0.49	mg/kg	0.02	0.00	0.15
Chromium	33.4	mg/kg	1.50	0.11	15.00
Mercury	0.5	mg/kg	0.02	0.00	0.10
Arsenic	45.6	mg/kg	2.05	0.15	0.70
Aluminium	4790	mg/kg	216	16.2	
Iron	404000	mg/kg	18180	1363.5	

# DCWW

## Analysis of Elan Valley Sludge

Date: 10/07/2025

Sample no. 8443903

Application rate (t/ha)	80
Application rate (t/acre)	32.0
pH	7.0
Dry solids (%)	4.5
Organic matter (%)	34.0

### NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	( kg/ha)	(kg/tonne)	( kg/ha)
Nitrogen (N)	0.88	%	0.39	31.5	0.020	1.6
Ammonium-N	442	mg/kg	0.02	1.6		
Phosphorus (P)	0.36	%	0.16	13.1		
Phosphate (P <sub>2</sub> O <sub>5</sub> )			0.37	29.9	0.2	14.9
Potassium (K)	0.04	%	0.02	1.4		
Potash (K <sub>2</sub> O)			0.02	1.7	0.0	1.5
Magnesium (Mg)	719	mg/kg	0.03	2.6		
Magnesium (MgO)			0.05	4.1	0.0	1.0
Sulphur (S)	3860	mg/kg	0.17	13.9		
Sulphur (SO <sub>3</sub> )			0.43	34.7	0.0	3.5
Calcium (Ca)		mg/kg	0.0	0.0		

### POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Amount		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	320.0	mg/kg	14.4	1.15	15.00
Copper	35.0	mg/kg	1.58	0.13	7.50
Nickel	22.9	mg/kg	1.03	0.08	3.00
Lead	62.9	mg/kg	2.83	0.23	15.00
Cadmium	0.49	mg/kg	0.02	0.00	0.15
Chromium	33.4	mg/kg	1.50	0.12	15.00
Mercury	0.5	mg/kg	0.02	0.00	0.10
Arsenic	45.6	mg/kg	2.05	0.16	0.70
Aluminium	4790	mg/kg	216	17.2	
Iron	404000	mg/kg	18180	1454.4	

# 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

TOTALS	result	units	Total		Available	
			(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 <sub>2</sub> O <sub>5</sub> )			0.09	22.8	0.0	11.4
Potassium (K)	0.09	%	0.04	9.5		
Potash (K <sub>2</sub> O)			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 <sub>3</sub> )			0.48	119.7	0.0	12.0
Calcium (Ca)		mg/kg	0.0	0.0		

### POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Amount		Limit
			(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	

# DCWW

## Analysis of Talybont Sludge

Date: 10/07/2025

Sample no. 8443884

Application rate (t/ha)	105
Application rate (t/acre)	42.0
pH	6.6
Dry solids (%)	6.8
Organic matter (%)	50.6

### NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	( kg/ha)	(kg/tonne)	( kg/ha)
Nitrogen (N)	0.85	%	0.58	60.8	0.014	1.5
Ammonium-N	204	mg/kg	0.01	1.5		
Phosphorus (P)	0.17	%	0.12	12.3		
Phosphate (P <sub>2</sub> O <sub>5</sub> )			0.27	28.0	0.1	14.0
Potassium (K)	0.03	%	0.02	2.2		
Potash (K <sub>2</sub> O)			0.02	2.6	0.0	2.3
Magnesium (Mg)	640	mg/kg	0.04	4.6		
Magnesium (MgO)			0.07	7.3	0.0	1.8
Sulphur (S)	4730	mg/kg	0.32	33.8		
Sulphur (SO <sub>3</sub> )			0.80	84.4	0.1	8.4
Calcium (Ca)		mg/kg	0.0	0.0		

### POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Amount		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	146.0	mg/kg	9.9	1.04	15.00
Copper	64.7	mg/kg	4.40	0.46	7.50
Nickel	20.5	mg/kg	1.39	0.15	3.00
Lead	18.3	mg/kg	1.24	0.13	15.00
Cadmium	0.43	mg/kg	0.03	0.00	0.15
Chromium	12.7	mg/kg	0.86	0.09	15.00
Mercury	0.3	mg/kg	0.02	0.00	0.10
Arsenic	18.8	mg/kg	1.28	0.13	0.70
Aluminium	70100	mg/kg	4767	500.5	
Iron	5090	mg/kg	346	36.3	

# DCWW

## Analysis of Talybont Sludge

Date: 10/07/2025

Sample no. 8443884

Application rate (t/ha)	112
Application rate (t/acre)	44.8
pH	6.6
Dry solids (%)	6.8
Organic matter (%)	50.6

### NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	( kg/ha)	(kg/tonne)	( kg/ha)
Nitrogen (N)	0.85	%	0.58	64.9	0.014	1.6
Ammonium-N	204	mg/kg	0.01	1.6		
Phosphorus (P)	0.17	%	0.12	13.1		
Phosphate (P <sub>2</sub> O <sub>5</sub> )			0.27	29.9	0.1	14.9
Potassium (K)	0.03	%	0.02	2.3		
Potash (K <sub>2</sub> O)			0.02	2.8	0.0	2.5
Magnesium (Mg)	640	mg/kg	0.04	4.9		
Magnesium (MgO)			0.07	7.8	0.0	1.9
Sulphur (S)	4730	mg/kg	0.32	36.0		
Sulphur (SO <sub>3</sub> )			0.80	90.1	0.1	9.0
Calcium (Ca)		mg/kg	0.0	0.0		

### POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Amount		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	146.0	mg/kg	9.9	1.11	15.00
Copper	64.7	mg/kg	4.40	0.49	7.50
Nickel	20.5	mg/kg	1.39	0.16	3.00
Lead	18.3	mg/kg	1.24	0.14	15.00
Cadmium	0.43	mg/kg	0.03	0.00	0.15
Chromium	12.7	mg/kg	0.86	0.10	15.00
Mercury	0.3	mg/kg	0.02	0.00	0.10
Arsenic	18.8	mg/kg	1.28	0.14	0.70
Aluminium	70100	mg/kg	4767	533.9	
Iron	5090	mg/kg	346	38.8	

## DCWW

### Analysis of Court Farm Sludge Cake

Date: 31/03/2025

Sample no. MANU170886

Application rate (t/ha)	45
Application rate (t/acre)	18.0
pH	7.1
Dry solids (%)	20.2
Organic matter (%)	14.5

#### NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	( kg/ha)	(kg/tonne)	( kg/ha)
Nitrogen (N)	0.59	%	1.19	53.6	0.006	0.3
Ammonium-N	28.5	mg/kg	0.01	0.3		
Phosphorus (P)	0.14	%	0.29	13.1		
Phosphate (P <sub>2</sub> O <sub>5</sub> )			0.66	29.8	0.3	14.9
Potassium (K)	0.06	%	0.13	5.8		
Potash (K <sub>2</sub> O)			0.15	6.9	0.1	6.3
Magnesium (Mg)	1483	mg/kg	0.30	13.5		
Magnesium (MgO)			0.48	21.6	0.1	5.4
Sulphur (S)	1119	mg/kg	0.23	10.2		
Sulphur (SO <sub>3</sub> )			0.57	25.4	0.1	2.5
Calcium (Ca)	14527	mg/kg	2.9	132.1		

#### POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Amount		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	50.2	mg/kg	10.1	0.46	15.00
Copper	21.2	mg/kg	4.28	0.19	7.50
Nickel	25.2	mg/kg	5.09	0.23	3.00
Lead	7.9	mg/kg	1.60	0.07	15.00
Cadmium	0.38	mg/kg	0.08	0.00	0.15
Chromium	30.3	mg/kg	6.12	0.28	15.00
Mercury	0.1	mg/kg	0.02	0.00	0.10
Arsenic	14.7	mg/kg	2.97	0.13	0.70
Aluminium	4810	mg/kg	972	43.7	
Iron	413246	mg/kg	83476	3756.4	

## DCWW

### Analysis of Court Farm Sludge Cake

Date: 31/03/2025

Sample no. MANU170886

Application rate (t/ha)	42
Application rate (t/acre)	16.8
pH	7.1
Dry solids (%)	20.2
Organic matter (%)	14.5

#### NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	( kg/ha)	(kg/tonne)	( kg/ha)
Nitrogen (N)	0.59	%	1.19	50.1	0.006	0.2
Ammonium-N	28.5	mg/kg	0.01	0.2		
Phosphorus (P)	0.14	%	0.29	12.2		
Phosphate (P <sub>2</sub> O <sub>5</sub> )			0.66	27.8	0.3	13.9
Potassium (K)	0.06	%	0.13	5.4		
Potash (K <sub>2</sub> O)			0.15	6.5	0.1	5.8
Magnesium (Mg)	1483	mg/kg	0.30	12.6		
Magnesium (MgO)			0.48	20.1	0.1	5.0
Sulphur (S)	1119	mg/kg	0.23	9.5		
Sulphur (SO <sub>3</sub> )			0.57	23.7	0.1	2.4
Calcium (Ca)	14527	mg/kg	2.9	123.2		

#### POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Amount		Limit
			(g/tonne)	(kg/ha)	(kg/ha/yr)
Zinc	50.2	mg/kg	10.1	0.43	15.00
Copper	21.2	mg/kg	4.28	0.18	7.50
Nickel	25.2	mg/kg	5.09	0.21	3.00
Lead	7.9	mg/kg	1.60	0.07	15.00
Cadmium	0.38	mg/kg	0.08	0.00	0.15
Chromium	30.3	mg/kg	6.12	0.26	15.00
Mercury	0.1	mg/kg	0.02	0.00	0.10
Arsenic	14.7	mg/kg	2.97	0.12	0.70
Aluminium	4810	mg/kg	972	40.8	
Iron	413246	mg/kg	83476	3506.0	

## Analysis of Biogen Digestate

Date: 12/08/2025

Sample no. BP ST 12/08/25

Application rate (t/ha)	12
Application rate (t/acre)	4.8
pH	8.8
Dry solids (%)	6.55
Organic matter content (%)	3.5
conductivity (µS/cm)	

### NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	( kg/ha)	(kg/tonne)	( kg/ha)
Nitrogen (N)	1.07	%	10.70	128.4	8.08	96.9
Ammonium-N	8077	mg/kg	8.08	96.9		
Phosphorus (P)	724	mg/kg	0.72			
Phosphate (P <sub>2</sub> O <sub>5</sub> )			1.65	19.8	0.83	9.9
Potassium (K)	3911	mg/kg	3.91			
Potash (K <sub>2</sub> O)			4.69	56.3	4.22	50.7
Magnesium (Mg)	38.4	mg/kg	0.04			
Magnesium (MgO)			0.06	0.7	0.01	0.1
Sulphur (S)	612	mg/kg	0.61			
Sulphur (SO <sub>3</sub> )			1.53	18.4	0.31	3.7

### POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Rate		Limit
			(g/tonne)	( kg/ha)	(kg/ha/yr)
Zinc	14.4	mg/kg	14.4	0.17	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 Biogen Digestate

Date: 12/08/2025

Sample no. BP ST 12/08/25

Application rate (t/ha)	14
Application rate (t/acre)	5.6
pH	8.8
Dry solids (%)	6.55
Organic matter content (%)	3.5
conductivity (µS/cm)	

### NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	( kg/ha)	(kg/tonne)	( kg/ha)
Nitrogen (N)	1.07	%	10.70	149.8	8.08	113.1
Ammonium-N	8077	mg/kg	8.08	113.1		
Phosphorus (P)	724	mg/kg	0.72			
Phosphate (P <sub>2</sub> O <sub>5</sub> )			1.65	23.1	0.83	11.6
Potassium (K)	3911	mg/kg	3.91			
Potash (K <sub>2</sub> O)			4.69	65.7	4.22	59.1
Magnesium (Mg)	38.4	mg/kg	0.04			
Magnesium (MgO)			0.06	0.9	0.01	0.2
Sulphur (S)	612	mg/kg	0.61			
Sulphur (SO <sub>3</sub> )			1.53	21.4	0.31	4.3

### POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Rate		Limit
			(g/tonne)	( kg/ha)	(kg/ha/yr)
Zinc	14.4	mg/kg	14.4	0.20	15.00
Copper	2.91	mg/kg	2.9	0.04	7.50
Nickel	2.50	mg/kg	2.5	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	0.94	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)	13
Application rate (t/acre)	5.2
pH	8.5
Dry solids (%)	6.21
Organic matter content (%)	3.5
conductivity (µS/cm)	

### NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	( kg/ha)	(kg/tonne)	( kg/ha)
Nitrogen (N)	0.85	%	8.50	110.5	5.63	73.2
Ammonium-N	5628	mg/kg	5.63	73.2		
Phosphorus (P)	915	mg/kg	0.92			
Phosphate (P <sub>2</sub> O <sub>5</sub> )			2.09	27.1	1.04	13.6
Potassium (K)	3055	mg/kg	3.06			
Potash (K <sub>2</sub> O)			3.67	47.7	3.30	42.9
Magnesium (Mg)	84.5	mg/kg	0.08			5.0
Magnesium (MgO)			0.14	1.8	0.03	0.4
Sulphur (S)	491	mg/kg	0.49			
Sulphur (SO <sub>3</sub> )			1.23	16.0	0.25	3.2

### POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Rate		Limit
			(g/tonne)	( kg/ha)	(kg/ha/yr)
Zinc	11.4	mg/kg	11.4	0.15	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)	14
Application rate (t/acre)	5.6
pH	8.5
Dry solids (%)	6.21
Organic matter content (%)	3.5
conductivity (µS/cm)	

### NUTRIENT CONTENT

TOTALS	result	units	Total		Available	
			(kg/tonne)	( kg/ha)	(kg/tonne)	( kg/ha)
Nitrogen (N)	0.85	%	8.50	119.0	5.63	78.8
Ammonium-N	5628	mg/kg	5.63	78.8		
Phosphorus (P)	915	mg/kg	0.92			
Phosphate (P <sub>2</sub> O <sub>5</sub> )			2.09	29.2	1.04	14.6
Potassium (K)	3055	mg/kg	3.06			
Potash (K <sub>2</sub> O)			3.67	51.3	3.30	46.2
Magnesium (Mg)	84.5	mg/kg	0.08			5.0
Magnesium (MgO)			0.14	1.9	0.03	0.4
Sulphur (S)	491	mg/kg	0.49			
Sulphur (SO <sub>3</sub> )			1.23	17.2	0.25	3.4

### POTENTIALLY TOXIC ELEMENTS

TOTALS	result	units	Rate		Limit
			(g/tonne)	( kg/ha)	(kg/ha/yr)
Zinc	11.4	mg/kg	11.4	0.16	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