

<b>Sampling Point No:</b>	23600	<b>Location:</b>	BRYN COWLYD WTW - SLUDGE Byproduct
<b>Date Sampled:</b>	28/04/2025	<b>Time Taken:</b>	20:51
<b>Laboratory:</b>	ALS	<b>Sample ID:</b>	8358325
<b>No. of Results:</b>	20		
<b>Sampling Reason:</b>	WTW Sludge - Investigation (SW_SI)		
<b>Type:</b>	WTW Sludge (SW)		

## Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	369	mg/kg		
288 Aluminium	3720	mg/kg		
357 Arsenic	13.1	mg/kg		
4620 pH	5.9	pH		
7774 Mercury	1.72	mg/kg	<	
8241 Volatile solids	29.6	%		
9233 Ammoniacal nitrogen	262	mg/kg	<	
9234 Sulphur	4180	mg/kg		
9271 Cadmium	0.73	mg/kg		
9272 Chromium	2.92	mg/kg	<	
9273 Copper	4.98	mg/kg	<	
9275 Nickel	37.2	mg/kg		
9276 Lead	13	mg/kg		
9277 Zinc	168	mg/kg		
9278 Iron	460000	mg/kg		
9281 % Dry solids	2.33	%		
9282 % Minerals	70.4	%		
9283 % K (dry weight)	0.02	mg/kg	<	
9284 % P (dry weight)	0.0301	%		
9285 % N (dry weight)	0.664	%	<	

## Comments:

## Signed:

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**Approved by:**

**Position:**

Upper Limit

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<b>Sampling Point No:</b>	631625	<b>Location:</b>	CILFOR WTW SLUDGE
<b>Date Sampled:</b>	28/04/2025	<b>Time Taken:</b>	20:36
<b>Laboratory:</b>	ALS	<b>Sample ID:</b>	8358293
<b>No. of Results:</b>	20		
<b>Sampling Reason:</b>	WTW Sludge - Investigation (SW_SI)		
<b>Type:</b>	WTW Sludge (SW)		

## Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	1200	mg/kg		
288 Aluminium	230000	mg/kg		
357 Arsenic	9.4	mg/kg		
4620 pH	6.7	pH		
7774 Mercury	0.86	mg/kg	<	
8241 Volatile solids	47.9	%		
9233 Ammoniacal nitrogen	268	mg/kg		
9234 Sulphur	12200	mg/kg		
9271 Cadmium	0.31	mg/kg		
9272 Chromium	4.3	mg/kg	<	
9273 Copper	32.6	mg/kg		
9275 Nickel	31.8	mg/kg		
9276 Lead	2.77	mg/kg	<	
9277 Zinc	81.4	mg/kg		
9278 Iron	5700	mg/kg		
9281 % Dry solids	4.7	%		
9282 % Minerals	52.1	%		
9283 % K (dry weight)	0.0087	mg/kg	<	
9284 % P (dry weight)	0.424	%		
9285 % N (dry weight)	0.919	%		

## Comments:

## Signed:

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**Approved by:**

**Position:**

Upper Limit

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<b>Sampling Point No:</b>	637744	<b>Location:</b>	EITHIN FYNYYDD (NEW) WTW SLUDGE
<b>Date Sampled:</b>	28/04/2025	<b>Time Taken:</b>	20:42
<b>Laboratory:</b>	ALS	<b>Sample ID:</b>	8358299
<b>No. of Results:</b>	20		
<b>Sampling Reason:</b>	WTW Sludge - Investigation (SW_SI)		
<b>Type:</b>	WTW Sludge (SW)		

## Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	356	mg/kg		
288 Aluminium	204000	mg/kg		
357 Arsenic	10.1	mg/kg	<	
4620 pH	6.4	pH		
7774 Mercury	1.34	mg/kg	<	
8241 Volatile solids	54.6	%		
9233 Ammoniacal nitrogen	203	mg/kg	<	
9234 Sulphur	14700	mg/kg		
9271 Cadmium	0.31	mg/kg	<	
9272 Chromium	2.28	mg/kg	<	
9273 Copper	25.7	mg/kg		
9275 Nickel	2.89	mg/kg	<	
9276 Lead	4.36	mg/kg	<	
9277 Zinc	34.5	mg/kg		
9278 Iron	1610	mg/kg		
9281 % Dry solids	2.99	%		
9282 % Minerals	45.4	%		
9283 % K (dry weight)	0.02	mg/kg	<	
9284 % P (dry weight)	0.27	%		
9285 % N (dry weight)	0.978	%		

## Comments:

## Signed:

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**Approved by:**

**Position:**

Upper Limit

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<b>Sampling Point No:</b>	698171	<b>Location:</b>	GARREGLWYD WTW SLUDGE
<b>Date Sampled:</b>	28/04/2025	<b>Time Taken:</b>	20:46
<b>Laboratory:</b>	ALS	<b>Sample ID:</b>	8358309
<b>No. of Results:</b>	20		
<b>Sampling Reason:</b>	WTW Sludge - Investigation (SW_SI)		
<b>Type:</b>	WTW Sludge (SW)		

## Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	556	mg/kg		
288 Aluminium	5310	mg/kg		
357 Arsenic	14.1	mg/kg		
4620 pH	6.1	pH		
7774 Mercury	0.9	mg/kg	<	
8241 Volatile solids	31.7	%		
9233 Ammoniacal nitrogen	136	mg/kg	<	
9234 Sulphur	2690	mg/kg		
9271 Cadmium	1.35	mg/kg		
9272 Chromium	14.8	mg/kg		
9273 Copper	28.9	mg/kg		
9275 Nickel	22.1	mg/kg		
9276 Lead	31.8	mg/kg		
9277 Zinc	441	mg/kg		
9278 Iron	471000	mg/kg		
9281 % Dry solids	4.51	%		
9282 % Minerals	68.3	%		
9283 % K (dry weight)	0.01	mg/kg	<	
9284 % P (dry weight)	0.132	%		
9285 % N (dry weight)	0.693	%		

## Comments:

## Signed:

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**Approved by:**

**Position:**

Upper Limit

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<b>Sampling Point No:</b>	698194	<b>Location:</b>	GWASTADGOED WTW SLUDGE
<b>Date Sampled:</b>	28/04/2025	<b>Time Taken:</b>	20:45
<b>Laboratory:</b>	ALS	<b>Sample ID:</b>	8358307
<b>No. of Results:</b>	20		
<b>Sampling Reason:</b>	WTW Sludge - Investigation (SW_SI)		
<b>Type:</b>	WTW Sludge (SW)		

## Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	320	mg/kg		
288 Aluminium	3230	mg/kg		
357 Arsenic	15.2	mg/kg		
4620 pH	5.6	pH		
7774 Mercury	0.68	mg/kg	<	
8241 Volatile solids	16.3	%		
9233 Ammoniacal nitrogen	102	mg/kg	<	
9234 Sulphur	10800	mg/kg		
9271 Cadmium	0.3	mg/kg		
9272 Chromium	1.15	mg/kg	<	
9273 Copper	1.96	mg/kg	<	
9275 Nickel	61.5	mg/kg		
9276 Lead	26.1	mg/kg		
9277 Zinc	163	mg/kg		
9278 Iron	519000	mg/kg		
9281 % Dry solids	5.99	%		
9282 % Minerals	83.7	%		
9283 % K (dry weight)	0.01	mg/kg	<	
9284 % P (dry weight)	0.168	%		
9285 % N (dry weight)	0.317	%		

## Comments:

## Signed:

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**Approved by:**

**Position:**

Upper Limit

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<b>Sampling Point No:</b>	698086	<b>Location:</b>	LLYN CONWY SLUDGE
<b>Date Sampled:</b>	20/06/2025	<b>Time Taken:</b>	12:57
<b>Laboratory:</b>	ALS	<b>Sample ID:</b>	8420725
<b>No. of Results:</b>	20		
<b>Sampling Reason:</b>	WTW Sludge - Product Monitoring (SW_ME)		
<b>Type:</b>	WTW Sludge (SW)		

## Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	310	mg/kg		
288 Aluminium	2880	mg/kg		
357 Arsenic	28.7	mg/kg		
4620 pH	5.3	pH		
7774 Mercury	1.11	mg/kg	<	
8241 Volatile solids	35.9	%		
9233 Ammoniacal nitrogen	6	mg/kg	<	
9234 Sulphur	5290	mg/kg		
9271 Cadmium	0.93	mg/kg		
9272 Chromium	17.9	mg/kg		
9273 Copper	3.19	mg/kg	<	
9275 Nickel	13.3	mg/kg		
9276 Lead	26.1	mg/kg		
9277 Zinc	268	mg/kg		
9278 Iron	404000	mg/kg		
9281 % Dry solids	3.64	%		
9282 % Minerals	64.1	%		
9283 % K (dry weight)	0.0087	mg/kg	<	
9284 % P (dry weight)	0.0774	%		
9285 % N (dry weight)	0.553	%		

## Comments:

## Signed:

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**Approved by:**

**Position:**

Upper Limit

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<b>Sampling Point No:</b>	612654	<b>Location:</b>	PEN Y CEFN WTW SLUDGE
<b>Date Sampled:</b>	28/04/2025	<b>Time Taken:</b>	20:43
<b>Laboratory:</b>	ALS	<b>Sample ID:</b>	8358301
<b>No. of Results:</b>	20		
<b>Sampling Reason:</b>	WTW Sludge - Investigation (SW_SI)		
<b>Type:</b>	WTW Sludge (SW)		

## Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	489	mg/kg		
288 Aluminium	178000	mg/kg		
357 Arsenic	43.1	mg/kg		
4620 pH	6.4	pH		
7774 Mercury	1.46	mg/kg	<	
8241 Volatile solids	40	%		
9233 Ammoniacal nitrogen	220	mg/kg	<	
9234 Sulphur	12800	mg/kg		
9271 Cadmium	0.34	mg/kg	<	
9272 Chromium	2.47	mg/kg	<	
9273 Copper	40.4	mg/kg		
9275 Nickel	3.13	mg/kg	<	
9276 Lead	4.72	mg/kg	<	
9277 Zinc	78.2	mg/kg		
9278 Iron	4360	mg/kg		
9281 % Dry solids	2.76	%		
9282 % Minerals	60	%		
9283 % K (dry weight)	0.0087	mg/kg	<	
9284 % P (dry weight)	0.306	%		
9285 % N (dry weight)	1.34	%		

## Comments:

## Signed:

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**Approved by:**

**Position:**

Upper Limit

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<b>Sampling Point No:</b>	698181	<b>Location:</b>	Penybont WTW SLUDGE
<b>Date Sampled:</b>	28/04/2025	<b>Time Taken:</b>	20:43
<b>Laboratory:</b>	ALS	<b>Sample ID:</b>	8358303
<b>No. of Results:</b>	20		
<b>Sampling Reason:</b>	WTW Sludge - Investigation (SW_SI)		
<b>Type:</b>	WTW Sludge (SW)		

## Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	1070	mg/kg		
288 Aluminium	217000	mg/kg		
357 Arsenic	47.7	mg/kg		
4620 pH	6.8	pH		
7774 Mercury	1.49	mg/kg	<	
8241 Volatile solids	30.8	%		
9233 Ammoniacal nitrogen	227	mg/kg	<	
9234 Sulphur	13000	mg/kg		
9271 Cadmium	0.35	mg/kg	<	
9272 Chromium	4.56	mg/kg		
9273 Copper	34.7	mg/kg		
9275 Nickel	7.9	mg/kg		
9276 Lead	4.84	mg/kg	<	
9277 Zinc	99.7	mg/kg		
9278 Iron	9250	mg/kg		
9281 % Dry solids	2.68	%		
9282 % Minerals	69.2	%		
9283 % K (dry weight)	0.02	mg/kg	<	
9284 % P (dry weight)	0.546	%		
9285 % N (dry weight)	0.858	%		

## Comments:

## Signed:

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**Approved by:**

**Position:**

Upper Limit

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<b>Sampling Point No:</b>	618214	<b>Location:</b>	RHIW GOCH WTW SLUDGE
<b>Date Sampled:</b>	28/04/2025	<b>Time Taken:</b>	20:41
<b>Laboratory:</b>	ALS	<b>Sample ID:</b>	8358297
<b>No. of Results:</b>	20		
<b>Sampling Reason:</b>	WTW Sludge - Investigation (SW_SI)		
<b>Type:</b>	WTW Sludge (SW)		

## Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	437	mg/kg		
288 Aluminium	5030	mg/kg		
357 Arsenic	11.5	mg/kg		
4620 pH	6.2	pH		
7774 Mercury	0.91	mg/kg	<	
8241 Volatile solids	30.9	%		
9233 Ammoniacal nitrogen	139	mg/kg	<	
9234 Sulphur	3100	mg/kg		
9271 Cadmium	0.87	mg/kg		
9272 Chromium	14.7	mg/kg		
9273 Copper	16.7	mg/kg		
9275 Nickel	15.9	mg/kg		
9276 Lead	27.7	mg/kg		
9277 Zinc	299	mg/kg		
9278 Iron	464000	mg/kg		
9281 % Dry solids	4.4	%		
9282 % Minerals	69.1	%		
9283 % K (dry weight)	0.01	mg/kg	<	
9284 % P (dry weight)	0.287	%		
9285 % N (dry weight)	0.616	%		

## Comments:

## Signed:

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**Approved by:**

**Position:**

Upper Limit

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<b>Sampling Point No:</b>	798001	<b>Location:</b>	Bala Sludge
<b>Date Sampled:</b>	28/04/2025	<b>Time Taken:</b>	20:49
<b>Laboratory:</b>	ALS	<b>Sample ID:</b>	8358319
<b>No. of Results:</b>	20		
<b>Sampling Reason:</b>	WTW Sludge - Investigation (SW_SI)		
<b>Type:</b>	WTW Sludge (SW)		

## Sample Results



Code	Result	Units	Qualifier	Lower Limit
238 Magnesium	1820	mg/kg		
288 Aluminium	181000	mg/kg		
357 Arsenic	12.5	mg/kg	<	
4620 pH	6.9	pH		
7774 Mercury	1.67	mg/kg	<	
8241 Volatile solids	50.8	%		
9233 Ammoniacal nitrogen	256	mg/kg	<	
9234 Sulphur	4670	mg/kg		
9271 Cadmium	0.51	mg/kg		
9272 Chromium	2.83	mg/kg	<	
9273 Copper	26	mg/kg		
9275 Nickel	3.58	mg/kg	<	
9276 Lead	5.41	mg/kg	<	
9277 Zinc	162	mg/kg		
9278 Iron	6200	mg/kg		
9281 % Dry solids	2.39	%		
9282 % Minerals	49.2	%		
9283 % K (dry weight)	0.0087	mg/kg	<	
9284 % P (dry weight)	0.0495	%		
9285 % N (dry weight)	1.17	%		

## Comments:

## Signed:

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**Approved by:**

**Position:**

Upper Limit

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