



Appendix 1: Detail of NE/EA 2022 phosphate targets for River Wye SAC

As a SAC, the site has Conservation Objectives to ensure that the integrity of the river is maintained or restored. As part of this, the [Conservation Supplementary Advice](#) sets Phosphate targets for the Wye and Lugg to ensure the water quality is appropriate for the site. NE sets targets for water quality, flows and biological features for European Sites, in accordance with UK Common Standards Monitoring Guidance (CSMG)). Water dependant European Sites such as the River Wye, are also defined as protected areas under the Water Environment (Water Framework Directive) (England and Wales) Regulations 2017 (WFD regulations) and the site targets form the basis for Water Framework Directive protected area objectives.

The full details of the targets are provided in the tables below for the following protected areas:

- River Wye SAC (including the Lugg)
- River Wye SSSI
- River Lugg SSSI

The River Wye and Lugg targets must be met as an annual mean, and a March to September inclusive growing season mean. Common Standards Monitoring Guidance (CSMG) from which targets are derived can be found here: [Common Standards Monitoring Guidance for Rivers \(jncc.gov.uk\)](#). This guidance states that:

“For each monitoring site within an assessment unit, all of the data within the 3-year data set that relate to the growing season (taken as March to September inclusive) should be pooled to generate a growing season mean. The mean of all samples within that 3-year period is also taken and that result is used to assess the target for the whole year mean.”

The agreed targets are set out in Table 1 below

Table 2 details the current 3 year mean against these targets together with the previous target set in RBMP2.

Table 1: New Water Quality Targets for the Wye SAC

SSSI NAME	SSSI UNIT/s	UNIQUE RIVER STRETCH IDENTIFIER	WB ID	Site	Phosphorus ($\mu\text{g/L}$)	Dissolved Oxygen (% Saturation)	Total Ammonia (mg/L)	Unionised Ammonia (mg/L)	Target Standard
River Wye	1	CSMG for rivers does not apply to tidal estuary							
River Wye	2	Brockweir Bridge to Monmouth	GB10905 5037111	H0000072 R WYE AT REDBROOK RAILWAY BRIDGE	39	85	0.25	0.025	WFD High Status
River Wye	3	Monmouth to Ross	GB10905 5037111	50028 R.WYE 800M D/S KERNE BRIDGE, GOODRICH	35	85	0.25	0.025	WFD High Status
River Wye	3	Monmouth to Ross	GB10905 5037111	50029 R.WYE,HUNTSHAM BR.SYMONDS YAT	36	85	0.25	0.025	WFD High Status
River Wye	4a	Ross to Lugg Confluence	GB10905 5037112	50027 R.WYE AT WILTON BRIDGE	34	85	0.25	0.025	WFD High Status

River Wye	4a	Ross to Lugg Confluence	GB10905 5037112	50810 HOLE-IN-THE-WALL FOOTBRIDGE	33	85	0.25	0.025	WFD High Status
River Wye	4a	Ross to Lugg Confluence	GB10905 5037112	50026 R.WYE AT HOARWITHY BRIDGE	33	85	0.25	0.025	WFD High Status
River Wye	4a	Ross to Lugg Confluence	GB10905 5037112	50807 HOLME LACY BRIDGE	30	85	0.25	0.025	WFD High Status
River Wye	4b	Lugg Confluence to Hereford	GB10905 5037112	50024 R WYE AT CARROTS POOL	26	85	0.25	0.025	WFD High Status
River Wye	4b	Lugg Confluence to Hereford	GB10905 5037113	50023 R WYE AT VICTORIA BRIDGE	26	85	0.2	0.02	WFD High Status
River Wye	5	Hereford to Bredwardine Bridge	GB10905 5037113	50022 R WYE AT BRIDGE SOLLARS BRIDGE	24	85	0.2	0.02	WFD High Status
River Wye	6	Bredwardine Bridge to Whitney Toll	GB10905 5037113	50183 R.WYE AT BREDWARDINE BRIDGE	23	85	0.2	0.02	WFD High Status

River Wye	6	Bredwardin e Bridge to Whitney Toll	GB10905 5037116	RSN0695 RIVER WYE - CROWE FARM	23	85	0.25	0.025	WFD High Status
River Wye	7	Whitney Toll to Hay	GB10905 5037116	50021 R WYE AT WHITNEY TOLL BRIDGE	21	85	0.25	0.025	WFD High Status
River Lugg	1	R Lugg (Wye SAC) Wye Confluence to Bodenham Weir	GB10905 5036790	50050 R LUGG AT MORDIFORD BRIDGE	30	85	0.25	0.025	CSMG Near Natural
River Lugg	1	R Lugg (Wye SAC) Wye Confluence to Bodenham Weir	GB10905 5036790	50047 R LUGG AT WERGINS BRIDGE	30	85	0.25	0.025	CSMG Near Natural
River Lugg	1	R Lugg (Wye SAC) Wye Confluence to	GB10905 5036790	RSN1762 LUGG, DS MORETON ON LUGG	30	85	0.25	0.025	CSMG Near Natural

		Bodenham Weir							
River Lugg	2 (SSSI only)	Bodenham Weir to Leominster	GB10905 5036790	50043 R LUGG AT FORD BRIDGE	30	85	0.25	0.025	CSMG Near Natural
River Lugg	2 (SSSI only)	Bodenham Weir to Leominster	GB10905 5042030	50042 R LUGG AT EATON BRDGE, LEOMINSTER	30	85	0.2	0.02	CSMG Near Natural
River Lugg	3 (SSSI only)	Leominster to Mortimers Cross	GB10905 5042030	50039 R LUGG AT MORTIMERS CROSS BRIDGE	15	85	0.2	0.02	CSMG Near Natural
River Lugg	4 (SSSI only)	Mortimers Cross to Presteigne	GB10905 5042030	There are currently no active sampling points in this unit, use 50039 R LUGG AT MORTIMERS CROSS BRIDGE and upstream NRW sampling points	15	85	0.2	0.02	CSMG Near Natural

Table 2: Comparison of new targets, old targets, and current compliance with water quality targets in the Wye SAC. Red indicates failing targets; blue indicates compliant targets.

Site ID	Site Name	Three Year Mean 11/2018 - 11/2021 (µg/L)	Number of Samples	Previous Target (µg/L)	Gap to Previous Target (µg/L)	New Target (µg/L)	Gap to New Target (µg/L)	Comments
50039	R LUGG AT MORTIMERS CROSS BRIDGE	66.4	23	25	41.4	15	51.4	
50042	R LUGG AT EATON BRIDGE, LEOMINSTER	66.9	16	25	41.9	30	36.9	More accurate application of CSMG standards using higher resolution site characteristics data.
50043	R LUGG AT FORD BRIDGE	82.3	10	50	32.3	30	52.3	
RSN1762	LUGG, DS MORETON ON LUGG	77.5	11	50	27.5	30	47.5	This is a new site.
50047	R LUGG AT WERGINS BRIDGE	73.7	23	50	23.7	30	43.7	

50050	R LUGG AT MORDIFORD BRIDGE	96.8	19	50	46.8	30	66.8	
50021	R WYE AT WHITNEY TOLL BRIDGE	18.6	23	30	-11.4	21	-2.4	
RSN0695	RIVER WYE - CROWE FARM	8.1	10	30	-21.9	23	-14.9	This is a new site.
50183	R.WYE AT BREDWARDINE BRIDGE	17.2	27	30	-12.8	23	-5.8	
50022	R WYE AT BRIDGE SOLLARS BRIDGE	15.4	23	30	-14.6	24	-8.6	
50023	R WYE AT VICTORIA BRIDGE	23.3	26	30	-6.7	26	-2.7	
50024	R WYE AT CARROTS POOL	17.6	25	50	-32.4	26	-8.4	
50807	HOLME LACY BRIDGE	29.9	24	50	-20.1	30	-0.1	
50026	R.WYE AT HOARWITHY BRIDGE	31.4	23	50	-18.6	33	-1.6	
50810	HOLE-IN-THE-WALL FOOTBRIDGE	26.2	19	50	-23.8	33	-6.8	

50027	R.WYE AT WILTON BRIDGE.	31.8	24	50	-18.2	34	-2.2	
50028	R.WYE 800M D/S KERNE BRIDGE, GOODRICH	28.5	24	50	-21.5	35	-6.5	
50029	R.WYE,HUNTSHAM BR.SYMONDS YAT	30.3	24	50	-19.8	36	-5.8	
H000007 2	R WYE AT REDBROOK RAILWAY BRIDGE	35.0	9	50	-15.0	39	-4.0	This is a new site.