STATUTORY INSTRUMENTS

1997 No. 1331

WATER RESOURCES, ENGLAND AND WALES

The Surface Waters (Fishlife) (Classification) Regulations 1997

Made - 19th May 1997 Laid before Parliament - 22nd May 1997 Coming into force - 12th June 1997

The Secretary of State for the Environment and the Secretary of State for Wales, acting jointly in exercise of the powers conferred on them by sections 82, 102 and 219(2) of the Water Resources Act 1991[1] and of all other powers enabling them in that behalf, hereby make the following Regulations:

Citation, commencement and interpretation

- 1. (1) These Regulations may be cited as the Surface Waters (Fishlife) (Classification) Regulations 1997 and shall come into force on 12th June 1997.
- (2) Expressions used in these Regulations which are also used in Directive 78/659/ EEC[2] (the quality of fresh waters needing protection or improvement in order to support fish life) shall have the same meaning as in that Directive.

Classification of waters

2. The classifications SW ("salmonid waters") and CW ("cyprinid waters"), and the criteria for those classifications, set out in the Schedule to these Regulations shall apply for classifying inland freshwaters which need protection or improvement in order to support fish life.

Compliance with relevant requirements

- 3. (1) Subject to paragraphs (2) and (3) below, any waters classified under these Regulations shall be treated in relation to any period of twelve months as complying with the requirements specified in the Schedule to these Regulations for waters of the relevant class for any parameter if in that period in relation to those waters -
- (a) in the case of the parameter for pH, non-ionised ammonia, total ammonium, total residual chlorine or total zinc, 95 per cent of the samples taken for that parameter in accordance with regulation 4 below comply with the requirements;
- (b) in the case of the parameter for temperature or dissolved oxygen, the percentage specified in that Schedule of samples taken for that parameter in accordance with regulation 4 below comply with the requirements.
- (2) When the frequency of sampling is lower than one sample per month for any parameter mentioned in sub-paragraph (1)(a) above in relation to any waters classified under these Regulations, 100 per cent of samples taken for that parameter in accordance with regulation 4 in relation to those waters must

comply with the requirements for that parameter specified in the Schedule to these Regulations for waters of the relevant class.

(3) Non-compliant samples shall be ignored for the purposes of paragraphs (1) and (2) above if they are the result of a flood or any other natural disaster.

Sampling and analysis

- 4. (1) The Environment Agency shall ensure that waters classified under these Regulations are sampled and samples are analysed in accordance with the following provisions of this Regulation.
- (2) Samples in relation to any waters classified under these Regulations shall always be taken at the same sampling point.
- (3) The Environment Agency shall fix the exact position of the sampling point, and the depth at which samples are to be taken, having regard in particular to -
 - (a) the distance of the sampling point to the nearest point where pollutants are discharged; and
 - (b) local environmental conditions.
- (4) Subject to paragraphs (5) and (6) below, sampling for any parameter shall be carried out at least at the minimum frequency specified in the Schedule to these Regulations for that parameter for waters of the relevant class.
- (5) Where the Environment Agency's records show that the quality of any waters classified under these Regulations is appreciably higher for any parameter than the minimum required by these Regulations for waters of that class, the Agency may reduce the sampling frequency for that parameter or, if there is no pollution and no risk of deterioration of its quality, it may dispense with sampling for that parameter altogether.
- (6) Where sampling shows that the requirements of regulation 3 above are not being complied with, the Environment Agency shall establish whether this is the result of chance, a natural phenomenon or pollution and shall adopt appropriate measures.
- (7) Samples for any parameter shall be analysed using the reference methods of analysis specified in the Schedule to these Regulations in relation to that parameter or methods which are at least as reliable as the reference methods.

Derogations

- 5. (1) The Agency may derogate from the requirements of these Regulations -
- (a) in the case of requirements marked (0) in the Schedule to these Regulations, because of exceptional weather or special geographical conditions; or
- (b) where waters classified under these Regulations undergo natural enrichment in certain substances as a result of which they do not comply with the requirements specified in the Schedule to these Regulations for waters of the relevant class.
- (2) In this Regulation, "natural enrichment" means a process whereby without human intervention a given body of water receives from the soil certain substances contained therein.

Modifications of the Water Resources Act 1991

- 6. (1) Section 83 of the Water Resources Act 1991 shall have effect -
- (a) as if it imposed a duty on the Secretary of State to exercise the powers conferred on him by that section to classify appropriately under these Regulations such waters as are appropriate for the purpose of giving effect to Directive 78/659/EEC in England and Wales; and
- (b) in relation to the performance of that duty, as if subsections (4) and (5) of that section were omitted.
- (2) Section 104(1) of the Water Resources Act 1991 (meaning of "controlled waters") shall have effect for the purpose of giving effect to Directive 78/659/EEC as if "inland freshwaters" included all waters which are fresh waters for the purposes of that Directive.
- (3) Section 202(2) of the Water Resources Act 1991 (information in connection with the control of pollution) shall have effect as if it conferred power on the Secretary of State and the Environment Agency to require the furnishing of information reasonably required for the purposes of giving effect to Directive 78/659/EEC.

John Prescott Secretary of State, Department of Environment 19th May 1997

Signed by authority of the Secretary of State for Wales Win Griffiths Parliamentary Under Secretary of State, Welsh Office 19th May 1997

SCHEDULE Regulations 2, 3 and 4

PART I

CRITERIA FOR CLASSIFICATION OF WATERS AS SALMONID AND CYPRINID WATERS CRITERIA FOR CLASSIFICATION OF WATERS AS SALMONID AND CYPRINID WATERS

CKII	ENIA FOR CLA	ASSITICATION OF WATERS A	S SALI	VIONID	ANDCITKI	NID WAILIS
No. In	Parameter Observ	Requirements to be sati	sfied	Metho	ds	Minimum
Annex 1 to78/65 /EEC	I	for salmonid waters Requirements to be satisfied for cyprinid waters	of analgor insp	•	and ring	pling
1	Temperature (°C)	1. Temperature measured downstream of a point of thermal discharge (at the edge of a mixing zone) must not	Thermo	ometry	Weekly, bot upstream an downstream the point of	
be	avoided	exceed the unaffected			thermal disc	
	avoided	temperature by more than 1.5°C for salmonid waters and 3°C for cyprinid waters				
		Derogations limited in geographical scope may be decided by the Environment Agency if the Agency can show that there are no harmful consequences for the balanced development of the fish population				
		2. Thermal discharges must not cause the temperature downstream of the point of thermal discharge (at the edge of the mixing zone) to exceed -				
		(a) 10°C (0) during the breeding season in the case of waters which contain species which need cold water for reproduction;				
		(b) at other times or in the case of waters which				

do not contain such species, 21.5°C (0) for

salmonid waters and 28°C (0) for cyprinid waters

Temperature limits may, however, be exceeded for 2% of the time

2 Dissolved

50%>=9

Winkler's method or specific

Monthly, minimum

oxygen (mg/l O2)

When the oxygen concentration falls below 6 mg/l, the Environment Agency shall comply with regulation 4(6) and the Agency must prove that this situation will have no harmful consequences for the balanced development of the fish population

50%>=7

When the oxygen concentration falls below 4 mg/l, the Environment Agency shall comply with regulation 4(6) and the Agency must prove that this situation will have no harmful consequences for the balanced development of the fish population

electrodes (electro-chemical one sample method) representative of

low oxygen conditions on the day of sampling

However, where major daily variations are suspected, a minimum of two samples in one day shall be taken

3	рН	6 to 9 (0)			
		Artificial pH variations wirespect to the unaffected variation shall not exceed ±0.5 of a punit within the limits falling between 6 and 9 provided these variations do not income the harmfulness of other substances present in the way.	alues means of two pH known pH va ig on either side that the pH being rease	lues, preferably of, and close to	Monthly
8 by	Phenolic compounds	Phenolic compoun be present in such	ds must not By ta	ste	An examination
by	(mg/l C6 H5 OH)	concentrations that they adversely affect fish flavor	ır	taste shall be made of where the presence of phenolic compounds is presumed	only
9	Petroleum Monthly hydrocarbons examination	Petroleum product A visual present in the water in sucl	s must not be Visua	al and by taste	
be mad	l e	quantities that they -			shall
	de				regularly
once		(a) form a visible film on			a
month	, with	the surface of the water			an
exami	nation				
		or form coatings on the beds of water-courses			by taste only
	where the	and lakes;			
	presence of	,			
	hydrocarbons	(b) impart a detectable			is
presun		"hydrocarbon" taste to fish;			
		(c) produce harmful effects on fish.			
10	Non-ionised Values	<=0.025	Molecular ab	sorption	Monthly
ionised	ammonia (mg/		ectrophotometry us	ing	non-

	NH3) ammonia may	indophenol blue or Nessler's				
	reeded in		method associated with pH			be
		and temperature determination			the	
form of	f					minor peaks
in						the daytime
11 absorpt	Total tion Monthloons and spectro	ly ammonium	risk of	In particular geographic toxicity due to non-ionis		Molecular climatic
(mg/l NH4) indophenol blue		ammonia, of oxygen		particularly in cases of l	low	using
method		consumption due to nitrification water temperature and of			or Nessler's	
		and of eutrophication, the		reduced nitrification or where		associated
with pl		concentrations of total		the Environment Agenc	y can	temperature
determination		ammonium should not exceed 1 show that there are no harmful mg/l consequences for the balanced development of the fish population, the Agency may fix a value higher than 1 mg/l				
12	Total residual	<=0.005		DPD-method	Month	ly
	The value chlorine (mg/l		(diethyl-p-phenylenediamene)			
	corresponds to			гр риспутенеанитене)		
	corresponds to Zn)			i p phonytenediamene)		pH = 6
	-			i p phenylenediamene)		pH = 6 Higher
	-			i p phenylenediamene)		Higher of total
be	Zn)			i p phenylenediamene)		Higher of total chlorine can
be the	Zn)			i p phenylenediamene)		Higher of total chlorine can accepted if
the	Zn) concentrations	<=0 3				Higher of total chlorine can accepted if pH is higher
	Zn) concentrations Total Zinc The va			Atomic absorption		Higher of total chlorine can accepted if
the	Zn) concentrations Total Zinc					Higher of total chlorine can accepted if pH is higher

between

		10 and 500 mg/l
	corresponding	
		limit values
can		be found in
the		
II		Table in Part
11		of this Schedule

PART II

ZINC CONCENTRATIONS (mg/l Zn) FOR DIFFERENT WATER HARDNESS VALUES
BETWEEN 10 AND 500
mg/l CaCO3

Classification of waters	Water hardness (mg/l CaCO3)					
	10	50		100	500	
Salmonid waters (mg/l Zn) 0.5		0.03	0.2	0.3		
Cyprinid waters (mg/l Zn)		0.3	0.7	1.0		

EXPLANATORY NOTE (This note is not part of the Regulations)

These Regulations prescribe a system for classifying the quality of inland freshwaters which need protection or improvement in order to support fish life.

The classifications SW ("salmonid waters") and CW ("cyprinid waters") reflect the mandatory values assigned by Directive 78/659/EEC (on the quality of fresh waters needing protection or improvement in order to support fish life) to the parameters listed in the Schedule to these Regulations.

The Regulations also incorporate the reference methods of measurement, and the minimum frequency required for sampling and analysis, laid down in that Directive for those parameters.

The Regulations, together with the Surface Waters (Fishlife) Directions 1997, transpose Directive 78/659/EEC in relation to England and Wales. Copies of the Surface Waters (Fishlife) Directions 1997 may be obtained from:

Water Quality Division
Department of the Environment,
Romney House,
43 Marsham Street,
London SW1P 3PY.

Environment Division, Welsh Office, Cathays Park, Cardiff CF1 3NQ.

Notes:

[1] 1991 c.57; see section 221(7) as to the joint exercise of functions exercisable concurrently.

[2] O.J. No. L 222, 14.8.1978, p. 1