IN CONFIDENCE

Table 1. Master table of the NOF Attributes Proposed for Regulation 2013

Value	Attributes	Attribute Band	Attribute Ban (Annual Median unles		Attribute Band Descriptors
Ecosystem Health	Chlorophyll <i>a</i> (Lakes)	А	<2 mg/m ³	<10 mg/m³ (annual maximum)	Lakes ecological communities are not at risk of flipping due to elevated nutrients and/or excessive algal and plant growth.
		В	2-5	10-25	Lakes ecological communities are at moderate risk of flipping due to elevated nutrients and/or excessive algal and plant growth.
		С	5-12	25-60	Lakes ecological communities are at moderate risk of flipping due to elevated nutrients and/or excessive algal and plant growth.
		D	>12	>60	Lakes ecological communities are at high risk of flipping due to elevated nutrients and/or excessive algal and plant growth.
	Total nitrogen (Lakes)	А	<160 mg/m³ (Seasonally stratified & Brackish)	<300 mg/m³ (Polymictic)	Lakes ecological communities are not at risk of flipping due to elevated nutrients and/or excessive algal and plant growth.
		В	160–350	300-500	Lakes ecological communities are at moderate risk of flipping due to elevated nutrients and/or excessive algal and plant growth.
		С	350-750	500-800	Lakes ecological communities are at moderate risk of flipping due to elevated nutrients and/or excessive algal and plant growth.
		D	>750	>800	Lakes ecological communities are at high risk of flipping due to elevated nutrients and/or excessive algal and plant growth.
	Total	Α	<10 mg/m ³	7	Lakes ecological communities are not at risk of flipping due to elevated nutrients and/or excessive algal and plant growth.
	phosphorus (Lakes)	В	10–20		Lakes ecological communities are at moderate risk of flipping due to elevated nutrients and/or excessive algal and plant growth.
		С	20–50		Lakes ecological communities are at moderate risk of flipping due to elevated nutrients and/or excessive algal and plant growth.
		D	>50		Lakes ecological communities are at high risk of flipping due to elevated nutrients and/or excessive algal and plant growth.
	Nitrate	Α	<1.0 mg NO3-N/L	<1.5 mg NO3-N/L	99% species protection level: No observed effect on any species tested
	toxicity (Lakes and Rivers)			(annual 95 th percentile)	3370 species protection level. No observed effect on any species tested
		В	1.0-2.4	1.5-3.5	95% species protection level: Starts impacting occasionally on the 5% most sensitive species
		C	2.4-6.9	3.5-9.8	80% species protection level: Starts impacting regularly on the 20% most sensitive species (6% reduction in growth)
		D	>6.9	>9.8	Starts approaching acute impact level (ie risk of death) for sensitive species
	Ammonia toxicity - (Lakes and - Rivers) .	Α	<0.02 mg NH4-N/L	<0.03 mg NH4-N/L (annual 95th percentile)	99% species protection level: No observed effect on any species tested
		В	0.02-0.18	0.03-0.25	95% species protection level: Starts impacting occasionally on the 5% most sensitive species
		С	0.18-1.2	0.25-1.6	80% species protection level: Starts impacting regularly on the 20% most sensitive species (6% reduction in growth)
		D	>1.2	>1.6	Starts approaching acute impact level (ie. risk of death) for sensitive species
	Dissolved Oxygen (Rivers - point - sources only)	Statistic	7-day mean minimum (Summer Period: 1 November to 30th April)	1-day minimum (Summer Period: 1 November to 30th April)	
		А	≥8.0 mg/L	≥7.5 mg/L	No stress caused by low dissolved oxygen on any aquatic organisms that are present at matched reference (near-pristine) sites.
		В	≥7.0	≥5.0	Occasional minor stress on sensitive organisms caused by short periods (a few hours each day) of lower dissolved oxygen. Risk of reduced abundance of sensitive fish and macroinvertebrate species.
		С	≥5.0	≥4.0	Moderate stress on a number of aquatic organisms caused by dissolved oxygen levels exceeding preference levels for periods of several hours each day. Risk of sensitive fish and macroinvertebrate species being lost.
		D	<5.0	<4.0	Significant, persistent stress on a range of aquatic organisms caused by dissolved oxygen exceeding tolerance levels. Likelihood of local extinctions of keystone species and loss of ecological integrity.
	Periphyton (Rivers) - -	А	<50 mg/m ² Chl a (annual maximum)		Exceeded no more than 2 occasions, with no exceedances in successive months (based on a monthly monitoring regime). Rare blooms reflecting negligible nutrient enrichment and/or alteration of the natural flow regime or habitat.
		В	50-120		Occasional blooms reflecting low nutrient enrichment and/or alteration of the natural flow regime or habitat
		С	120-200		Periodic short-duration nuisance blooms reflecting moderate nutrient enrichment and/or alteration of the natural flow regime or habitat
		D	>200		
Human Health -	E. coli	А	<260 E. coli/100 mL		People are exposed to a very low risk of infection (less than 0.1% risk) from exposure to water for secondary contact recreation.
secondary contact	(Lakes and Rivers)	В	260-540		People are exposed to a low risk of infection (between 0.1 and 1% risk) from exposure to water for secondary contact recreation.
		С	540-1000		People are exposed to a moderate risk of infection (between 1 and 5% risk) from exposure to water for secondary contact recreation.
		D	>1000		People are exposed to a high risk of infection (greater than 5% risk) from exposure to water for secondary contact recreation.
	Cyanobacteria (Lakes and	Type	Planktonic	Benthic	
	Rivers)	А	Biovolume equivalent for the combined total of all cyanobacteria does not exceed 0.5 mm ³ /L OR The cell concentration of total cyanobacteria does not exceed 500 cells/mL	<10% cover phormidium	Risk exposure from cyanobacteria is no different to that in natural conditions