

Summary of draft Ruamāhanga whitua freshwater objectives for river freshwater management units

* indicates where current state is based on modelled information or expert best knowledge, otherwise all current state analyses based on monitoring data

FMU group	River freshwater management unit	Monitoring point	NOF attributes												Non-NOF attributes				Freshwater objectives to be met by?						
			E. coli						Ammonia (toxicity)				Nitrate (toxicity)				Periphyton				Macroinvertebrate community health*				
			Current state	Freshwater objective					Current state	Freshwater objective			Current state	Freshwater objective			Current state	Freshwater objective			River class	Freshwater objective			
				NOF band	NOF band	% exceedances	Concentration (mg/L) ≤			NOF band	NOF band	Concentration (mg/L) ≤		NOF band	NOF band	Concentration (mg/L) ≤		NOF band		NOF band		Chl a (mg/m ³)	Band	Band	Band
		≥540cfu/100mL	≥260cfu/100mL	Median	95 th percentile			Median	95 th percentile			Median	95 th percentile												
Aorangi rivers	Tauanui River	TBC	D*	A	<5%	<20%	127	505	A*	A	0.006	0.043	A*	A	0.13	0.33	C/D*	B	>50 and <120	4	Fair*	Good	≥110 and <130	2040	
	Turanganui River	TBC	B*	B	5-10%	20-30%	66	565	A*	A	0.009	0.046	A*	A	0.15	0.61	C/D*	B	>50 and <120	4	Fair*	Good	≥110 and <130	2040	
Eastern hill rivers	Taueru River ^a	Taueru River at Gladstone	C	C	10-20%	30-34%	99	1171	A	A	0.005	0.044	B	A	0.71	1.41	D*	C	>120 and <200	3	Good	Good	≥105 and <130	2040	
	Makahakaha Stream ^a	TBC	A*	A	<5%	<20%	51	100	A*	A	0.006	0.019	B*	A	0.73	1.50	-	B	>50 and <120	5	Fair*	Good	≥100 and <120	2040 (periphyton 2030)	
	Huanga River ^a	Huanga River at Ponatahi Bridge	B	B	5-10%	20-30%	68	921	A	A	0.005	0.014	A	A	0.22	0.66	C	B	>50 and <120	4	Fair	Good	≥110 and <130	2080	
Eastern hill streams group	Eastern hill streams ^a	TBC	-	B	5-10%	20-30%	68	921	-	A	0.005	0.014	-	A	0.22	0.66	-	B	>50 and <120	3/6	-	Fair	≥80 and <105	Maintain	
Main stem Ruamāhanga River	Ruamāhanga - Wardells	Ruamāhanga at Wardells	C*	C	10-20%	30-34%	105	994	B*	A	0.011	0.050	A*	A	0.54	1.24	B*	B	>50 and <120	4	Fair*	Fair	≥90 and <110	2040	
	Ruamāhanga - Gladstone Bridge	Ruamāhanga at Gladstone Bridge	D	C	10-20%	30-34%	33	1098	B	A	0.005	0.050	A	A	0.31	0.96	B	B	>50 and <120	4	Fair*	Fair	≥90 and <110	2040	
	Ruamāhanga - Waihenga	Ruamāhanga at Waihenga Bridge	A	A	<5%	<20%	33	375	B*	A	0.005	0.040	A*	A	0.50	0.84	B	B	>50 and <120	4	Fair*	Fair	≥90 and <110	2040	
	Ruamāhanga - Pukio	Ruamāhanga at Pukio	B	B	5-10%	20-30%	40	875	A*	A	0.005	0.030	A*	A	0.33	0.94	-	B	>50 and <120	4	Good*	Good	≥110 and <130	Maintain	
	Ruamāhanga - upstream of confluence with Lake Wai outlet	Ruamāhanga at Boat Ramp	B*	B	5-10%	20-30%	130	900	A*	A	0.009	0.035	A*	A	0.39	0.98	-	B	>50 and <120	4	Fair*	Fair	≥90 and <110	Maintain	
Northern rivers	Kopuaranga River	Kopuaranga River at Stuarts	D	C	10-20%	30-34%	130	1200	A	A	0.005	0.024	A	A	0.82	1.17	D	C	>120 and <200	5	Fair	Good	≥100 and <120	2040	
	Whangaehu River ^a	Whangaehu River at 250m from Confluence	D	C	10-20%	30-34%	130	1200	A	A	0.005	0.050	A	A	0.47	1.50	-	C	>120 and <200	3	Fair*	Good	≥105 and <130	2040	
Valley floor streams group	Parkvale Stream	Parkvale Stream at Renalls Weir	E	C	10-20%	30-34%	130	1200	B	A	0.012	0.050	B	A	1.00	1.50	B	B	>50 and <120	5	Fair*	Good	≥100 and <120	2040	
	Otukura Stream	Otukura Stream	D*	C	10-20%	30-34%	20	1200	B*	A	0.005	0.050	B*	A	1.00	1.30	-	B	>50 and <120	6	-	Fair	≥80 and <105	2040	
	Valley floor streams (to Lake Wai and to Ruamāhanga)	TBC	-	C	10-20%	30-34%	20	1200	-	A	0.005	0.050	-	A	1.00	1.30	-	B	>50 and <120	6	-	Good	≥100 and <120	2040	
Western hill rivers	Upper Ruamāhanga River	Ruamāhanga River at Double Bridges	D	C	10-20%	30-34%	13	183	A	A	0.005	0.019	A	A	0.09	0.43	A	A	≤50	4	Fair	Good	≥110 and <130	2040	
	Waipoua River	Waipoua River at Colombo Rd Bridge	B	A	<5%	<20%	34	540	A	A	0.005	0.008	B	A	0.63	1.41	B*	A	≤50	4	Fair	Good	≥110 and <130	2040	
	Waingawa River	Waingawa River at South Rd	A	A	<5%	<20%	13	183	A	A	0.005	0.023	A	A	0.06	0.22	A	A	≤50	4	Good	Good	≥110 and <130	Maintain	
	Mangatarere Stream	Mangatarere River at State Highway 2	D	B	5-10%	20-30%	48	218	B	B (top of band)	0.028	0.128	B	A	0.99	1.50	C	B, then A	>50 and <120	4	Fair	Good	≥110 and <130	2040 (2080 for MCI)	
	Waiohine River	Waiohine River at Bicknells	A	A	<5%	<20%	15	129	A	A	0.005	0.015	A	A	0.34	0.85	A	A	≤50	4	Fair	Good	≥110 and <130	2080	
	Tauherenikau River	Tauherenikau River at Websters	A	A	<5%	<20%	19	210	A	A	0.005	0.009	A	A	0.04	0.14	A*	A	≤50	4	Fair	Good	110 and <130	2040	
South coast streams group	South coast streams ^a	TBC	-	A	<5%	<20%	19	210	-	A	0.005	0.009	-	A	0.04	0.14	-	A	≤50	1/2	-	Good or better	Class 1: ≥120 and <130 Class 2: ≥105 and <130	Maintain	

^a Productive periphyton class (as defined in NPS-FM Appendix 2)
^a Because monitoring stream TBC, this selection will confirm productivity class for periphyton and river class for MCI

MCI bands - Wellington-specific				
	A	B	C	D
River class	Excellent	Good	Fair	Poor
1	≥130	≥120	≥110	<110
2	≥130	≥105	≥80	<80
3	≥130	≥105	≥80	<80
4	≥130	≥110	≥90	<90
5	≥120	≥100	≥80	<80
6	≥120	≥100	≥80	<80

Summary of draft Ruamāhanga whaitua freshwater objectives for lakes freshwater management units

Lake FMU	Monitoring site	NOF attributes																		Non-NOF attributes						Freshwater objectives to be met by?		
		<i>E. coli</i>						Total nitrogen			Total phosphorus			Ammonia toxicity			Phytoplankton			Trophic level index		Total suspended sediment		Macrophytes				
		Current state	Freshwater objective				Current state	Freshwater objective		Current state	Freshwater objective		Current state	Freshwater objective		Current state	Freshwater objective		Current state	Freshwater objective	Current state	Freshwater objective	Current state	Freshwater objective	Current state		Freshwater objective	
		NOF band	NOF band	% exceedances		Concentration (mg/L)		NOF band	NOF band	Concentration (mg/L)	NOF band	NOF band	Concentration (mg/L)	NOF band	NOF band	Concentration (mg/L)	NOF band	NOF band	Concentration chlorophyll a (mg/m ³)	TLI category	TLI category	Narrative state	Narrative state	State	State			
		≥540cfu/100mL	≥260cfu/100mL	Median	95th percentile			Median			Median			Median	95th percentile			Annual median	Annual max									
Lake Wairarapa	Lake Wairarapa Site 2	A	A	<5%	<20%	65	300	C	C	>500 and ≤800	D	C	>20 and ≤50	A	A	0.005	0.023	D	C	>5 and ≤12	>25 and ≤60	Very poor	Poor	Poor	Fair	D	C	2080
Lake Onoke	Lake Onoke 1	B/C	A	<5%	<20%	130	540	C	B	>160 and ≤350	B	B	>10 and ≤20	A	A	0.010	0.040	B	B	>2 and ≤5	>10 and ≤25	Poor	Average	Poor	Fair	D	C	2040