Appendix 1 to evidence of Vanessa Rodgers

Summary of PCC submission points and s42A report recommendations

PCC submission point ref.	Provision	Relief sought by PCC (green text where relevant)	S42A report recommendation		Recommended amendments to s42A version (blue text)
			Response	Recommended changes (red text)	
S240. 024	**Objective P.01**	**Amend Objective P.O1 as follows:** **Objective P.O1** The health of Te Awarua-o-Porirua's groundwater, rivers, lakes, **natural wetlands**, estuaries, harbours and coastal marine area is progressively improved and is wai ora by 2100. ~~*Note*~~ In the wai ora state: • Te Awarua-o-Porirua is a taonga of Ngāti Toa Rangatira and must be respected by others • **Mauri** is restored, and waters restored to ~~are~~ ~~in~~ a natural state where possible • Ecological health is excellent in freshwater and coastal water environments • Rivers flow naturally, with ripples and the river beds are stony	**Accept in part**	Objective P.O1 The health of Te Awarua-o-Porirua's groundwater, rivers, lakes, **natural wetlands**, estuaries, harbours and coastal marine area is progressively improved and is wai ora by 2100. ~~*Note*~~ In the wai ora state: • The values of Ngāti Toa Rangatira are upheld by way of revitalising and protecting Ngāti Toa Rangatira practices and tikanga associated with Te Awarua-o-Porirua ~~is a taonga of Ngāti Toa Rangatira and must be respected by others~~ • **Mauri** is restored and waters are in a natural state, where possible • Ecological health is excellent in freshwater and coastal water environments • Rivers flow naturally, with ~~ripples~~ riffles, runs and pools, and the river beds are stony • **Mahinga kai**, taonga, mahinga ika and kaimoana species are healthy, abundant, diverse, present across all stages of life, sizeable, and able to be culturally harvested by **mana whenua** • **Mahinga kai**, taonga, mahinga ika and kai moana species are safe to harvest and eat or use, including for **mana whenua** to exercise manaakitanga • **Mana whenua** and communities are able to undertake a full range of activities • **Mana whenua** are able to undertake cultural activities and practices	**Accept**

		• **Mahinga kai**, taonga, mahinga ika and kaimoana species are healthy, abundant, diverse, present across all stages of life, sizeable, and able to be culturally harvested by **mana whenua** • **Mahinga kai**, taonga, mahinga ika and kai moana species are safe to harvest and eat or use, including for **mana whenua** to exercise manaakitanga • **Mana whenua** and communities are able to undertake a full range of activities • **Mana whenua** are able to undertake cultural activities and practices.		• Water is able to be used for social and economic use benefits, provided that the health and wellbeing of waterbodies, freshwater ecosystems and coastal waters is not compromised. *Note:* Objectives P.O2 to P.O6 set out what is needed to achieve progressive implementation of this long-term objective. Therefore, resource consent applicants do not need to demonstrate their proposed activities align with this objective.	
S240.025	**Objective P.O2**	Amend objective to link to specify target attribute states and locations for outcomes being sought, and amend the objective as follows: Objective P.O2: Te Awarua-o-Porirua's groundwater, rivers, lakes	**Accept in part**	Objective P.O2 Te Awarua-o-Porirua's groundwater, rivers, lakes and **natural wetlands**, and their margins are on a trajectory of ~~measurable~~ improvement towards wai ora, such that by 2040: (a) water quality, habitats, aquatic life, water quantity and ecological processes are at a level where the state of ~~aquatic life~~ ecosystem health is meaningfully improved in accordance with P.O6, and	**Amend date from 2040 to 2060; Accept other recommendations** Te Awarua-o-Porirua's groundwater, rivers, lakes and **natural wetlands**, and their margins are on a trajectory of ~~measurable~~ improvement towards wai ora, such that by ~~2040~~ 2060:

		and **natural wetlands**, and their margins are on a trajectory of measurable improvement towards wai ora, such that by 2040: (a) water quality, habitats, water quantity and ecological processes are at a level where the state of aquatic life is meaningfully improved, and (b) erosion processes, including bank stability, are improved to significantly reduce the sedimentation rate in the harbour to a more natural level, and (c) the extent and condition of indigenous riparian vegetation is increased and improved, and (d) the diversity, abundance and condition of **mahinga kai** are increased so that **mana whenua** are able to harvest healthy **mahinga kai** for their		(b) natural form and character is maintained, or where degraded, improvement has been made to limit erosion processes, including bank stability, ~~are improved~~ to significantly reduce the sedimentation rate in the harbour ~~to a more~~ ~~natural level~~, and the extent and condition of indigenous riparian vegetation is increased and improved, supporting ecosystem health, and (c) ~~the extent and condition of indigenous riparian vegetation is increased and improved, and~~ (d) the diversity, abundance and condition of **mahinga kai** are increased so that **mana whenua** are able to harvest healthy **mahinga kai** for their people, and (e) ~~**huanga** of mahinga kai and **Māori customary** **use** for locations identified in Schedule B (**Ngā** **Taonga** **Nui a Kiwa**) are maintained or improved,~~ ~~and~~ (f) **mana whenua** are able to more safely connect with freshwater and are able to practice their customary and cultural practices, including **mahinga kai** gathering, and (g) **mana whenua** and communities can more safely connect with waterbodies and enjoy a wider range of activities, including swimming, paddling and fishing ~~food gathering~~, and (h) people and communities can provide for social and economic use benefits, provided that the health and well-being of waterbodies and ecosystems is not compromised. the freshwater **environmental outcomes** must contribute to the: (i) maintenance and improvement of the health and wellbeing of estuaries, harbours and open coastal areas, and (j) protection and **restoration** of sites within	

		people, and (e) **huanga** of **mahinga kai** and **Māori customary use** for locations identified in Schedule B (**Ngā Taonga Nui a Kiwa**) are maintained or improved, and **by 2060** (f) **mana whenua** are able to safely connect with freshwater and are able to practice their customary and cultural practices, including **mahinga kai** gathering, and (g) **mana whenua** and communities can safely connect with waterbodies and enjoy a wider range of activities, including swimming, paddling and food gathering, and the freshwater **environmental outcomes** must		significant values.	

		contribute to the: (h) maintenance and improvement of the health and wellbeing of estuaries, harbours and open coastal areas, and (i) protection and **restoration** of sites within significant values.			
S240.026	**Objective P.O3**	Objective P.O3 The health and wellbeing of coastal water quality, ecosystems and habitats in Pāuatahanui Inlet, Onepoto Arm and the open coastal areas of Te Awarua-o-Porirua is maintained, or improved to achieve the coastal water objectives set out in Table 9.1, and by 2040: (a) sediment and metal loads entering the **harbour arm catchments** either via freshwater bodies or directly are significantly reduced, and (b) high contaminant concentrations, including around	**Accept in part**	Objective P.O3 ~~The health and wellbeing of c~~ Coastal water quality, and the health and wellbeing of ecosystems and habitats in Pāuatahanui Inlet, Onepoto Arm and the open coastal areas of Te Awarua-o-Porirua is maintained, or improved where deteriorated, to achieve the coastal water objectives set out in Table 9.1 and 9.1A, and by 2040: (a) sediment and metal loads entering the **harbour arm catchments** either via freshwater bodies or directly are significantly reduced, and (b) ~~high contaminant concentrations, including around discharge points, are reduced, and~~ (c) the diversity, abundance and condition of **mahinga kai** has increased so that **mana whenua** access to healthy **mahinga kai** has increased, and (d) **huanga** of **mahinga kai** and **Māori customary use** for locations identified in Schedule B (**Ngā Taonga Nui a Kiwa**) are maintained or improved, and (e) the extent and condition of estuarine seagrass, saltmarsh and brackish water submerged macrophytes are increased and improved to	**Amend clause (h) as follows (to be consistent with P.O2:** (h) **mana whenua** and communities can more safely ~~connect with~~ use the coastal marine area and enjoy a wider range of activities, including food gathering, swimming, ~~and~~ paddling, **Māori customary use** and **tikanga,** and ~~The health and wellbeing of c~~ Coastal water quality, and the health and wellbeing of ecosystems and habitats in Pāuatahanui Inlet, Onepoto Arm and the open coastal areas of Te Awarua-o-Porirua is maintained, or improved where deteriorated, to achieve the coastal water objectives set out in Table 9.1

		discharge points, are reduced, and (c) the diversity, abundance and condition of **mahinga kai** has increased so that **mana whenua** access to healthy **mahinga kai** has increased, and (d) **huanga** of **mahinga kai** and **Māori customary use** for locations identified in Schedule B (**Ngā Taonga Nui a Kiwa**) are maintained or improved, and (e) the extent and condition of estuarine seagrass, saltmarsh and brackish water submerged macrophytes are increased and improved to support abundant and diverse biota, and (f) coastal areas support healthy functioning ecosystems, and their water conditions and habitats support the presence, abundance, survival, and recovery of **taonga species** and Atrisk and Threatened species, and **by 2060** (g) **mana whenua** are able		support abundant and diverse biota, and (f) coastal areas support healthy functioning ecosystems, and their water conditions and habitats support the presence, abundance, survival, and recovery of **taonga species** and At risk and Threatened species, and (g) ~~**mana whenua** are able to safely connect with and access the coastal marine area and practice their customary and cultural **tikanga**, and~~ (h) **mana whenua** and communities can safely ~~connect with~~ use the coastal marine area and enjoy a wider range of activities, including food gathering, swimming, ~~and~~ paddling, **Māori customary use** and **tikanga,** and (i) for coastal areas not covered by Table 9.1, in addition to relevant matters in (a)-(h) above: • fish and benthic invertebrate communities are resilient and their structure, composition and diversity are maintained, and • there is no increase in the frequency of nuisance macroalgal blooms, and • phytoplankton levels are maintained and monitored in applicable areas of point source discharges and locations that experience riverine mouth closures with limited water mixing. Refer below for Table 9.1	and 9.1A, and by ~~2040~~2060

		to safely connect with and access the coastal marine area and practice their customary and cultural **tikanga**, and **(h) mana whenua** and communities can safely connect with the coastal marine area and enjoy a wider range of activities, including food gathering, swimming, and paddling.			
S240.027	Table 9.1: Coastal water objectives	Amend the timeframe for target states for E.coli and enterococci coastal water objectives to 2060.	**Accept in part**	**See table 9.1 and new Table 9.1A below**	Amend the timeframe from ~~2040~~ to 2060
S240.029	Objective P.O5	Retain as notified	**Accept in part**	Objective P.O5 Groundwater flows and levels, and water quality, are maintained at levels that ~~protect~~ ensure that: (a) groundwater dependent ecosystems are maintained, or improved where degraded, and (b) the values of connected **surface water bodies** in places where groundwater flows to surface water are maintained, or improved where degraded.	Accept
S240.030	Objective P.O6	Retain as notified	**Accept in part**	Objective P.O6 Water quality, habitats, natural form and character, water quantity and ecological processes of rivers are maintained or improved by ensuring that: (a) where a target attribute state in Table 9.2 is not met, the state of that attribute is improved throughout ~~in all rivers and river reaches in~~ the **part Freshwater Management Unit** so that the	Accept with amendments to clauses (e) and (f) as follows (to be consistent with comparable policy WH.O9): (e) where improvements are required to existing wastewater or stormwater networks: (i) prioritise *E.coli*/enterococci

				target attribute state is met within the timeframe indicated within Table 9.2, and (b) where a target attribute state in Table 9.2 is met, the state of that attribute is at least maintained in all rivers within the **part Freshwater Management Unit**, and (c) where any attribute in any river or river reach is in a better state than the target attribute state, that attribute is ~~at least~~ maintained ~~at the better state in every river or river reach~~, and (d) ~~where a **huanga of mahinga kai and Māori customary use** for locations identified in Schedule B (**Ngā Taonga Nui a Kiwa**) is not achieved, the state of the river or river reach is improved.~~ (e) where improvements are required to existing wastewater or stormwater networks: (i) prioritise *E.coli*/enterococci reductions that contribute to achieving the targets for coastal locations noted in Table 9.1As, ahead of broader **part Freshwater Management Unit** *E.coli* targets in Table 9.2. (ii) prioritise dissolved copper and dissolved reductions in locations where macroinvertebrate target attribute state(s) in Table 8.4 are not met once the priorities in clause (i) above have been addressed. (f) the targets in Table 9.2 are managed and monitored at a **part Freshwater Management Unit** level, by the Council on behalf of mana whenua and the wider community, and, where specific policies and rules are included in this chapter of the plan to manage an activity, and: (i) when the specific policies and rules are fully satisfied, then the target attribute	reductions that contribute to achieving the targets for coastal locations noted in Table 9.1A~~s~~, ahead of broader **part Freshwater Management Unit** *E.coli* targets in Table 9.2. (ii) prioritise dissolved copper and dissolved zinc reductions in locations where macroinvertebrate target attribute state(s) in Table 9.28~~.4~~ are not met once the priorities in clause (i) above have been addressed. (f) the targets in Table 9.2 are managed and monitored at a **part Freshwater Management Unit** level, by the Council on behalf of mana whenua and the wider community, and, where specific policies and rules are included in this chapter of the plan to manage an activity, and: (i) when the specific policies and rules are fully satisfied, then the target attribute states can be considered to be consistent with this objective; or

				states can be considered to be consistent with this objective; or (ii) when the specific policies and rules are not satisfied these are not satisfied, then an assessment of the impact of an activity or discharge on the achievement of the target attribute states will be required; or (iii) where policies and rules are not included in this chapter to manage the proposed activity, a specific assessment of the impact of an activity or discharge on the achievement of the target attribute states is required. **[refer below for Table 9.2]**	(ii) when the specific policies and rules are not satisfied ~~these are not satisfied~~, then an assessment of the impact of an activity or discharge on the achievement of the target attribute states will be required; or (iii) where policies and rules are not included in this chapter to manage the proposed activity, an ~~specific~~ assessment of the impact of an activity or discharge on the achievement of the target attribute states ~~is~~ will be required.
				Add a new objective within chapter 9: Objective P.O7 By 2030, there is no further decline of the health and wellbeing of Te Awarua-o-Porirua's rivers.	**Accept**
S240.031	Table 9.2:	Amend the timeframe for	**Accept in**		For Taupo, Pouewe and Takapu

	Target attribute states for rivers	target states for e.coli and enterococci coastal water objectives to 2060	**part**		part-FMUs amend TAS for E.coli from State '~~C~~' to State 'D'. Amend the timeframe from ~~2040~~ to 2060
S240.032	Policy P.P1	Retain as notified	**Accept in part**	Policy P.P1: Improvement of aquatic ecosystem health **Aquatic ecosystem health** will be improved, where deteriorated, by: (a) progressively reducing the load or concentration of contaminants, particularly sediment, nutrients, pathogens and metals, entering water, and (b) restoring habitats, and (c) enhancing the natural flow regime of rivers and managing water flows and levels, including where there is interaction of flows between surface water and groundwater, and (d) ~~co-ordinating and prioritising work programmes~~ promoting non-regulatory methods that seek to improve aquatic ecosystem health, in accordance with M36-M45 of the plan ~~in catchments that require changes to land use activities that impact on water.~~	**Accept**
S240.033	**Policy P.P2**	Amend the policy as follows: Policy P.P2 Management of activities to achieve target attribute states and coastal water objectives	**Accept in part**	~~Policy P.P2 Management of activities to achieve target attribute states and coastal water objectives~~ ~~Target attribute states and coastal water objectives will be achieved by regulating discharges and land use activities in the Plan, and non-regulatory methods,~~	**Accept**

		Target attribute states and coastal water objectives will be achieved by regulating discharges and land-use activities in the Plan, and non-regulatory methods, including Freshwater Action Plans, by: (a) ~~prohibiting~~ avoiding **unplanned greenfield development** and ~~for~~ managing other greenfield developments **minimising** the contaminants and requiring financial contributions as to offset adverse effects from residual **stormwater** contaminants, and (b) ~~encouraging **redevelopment** activities within existing urban areas to reduce the existing urban contaminant load, and~~ (c) imposing **hydrological controls** on urban development and **stormwater** discharges to rivers,		~~including Freshwater Action Plans, by:~~ ~~(a) prohibiting **unplanned greenfield development** and for other greenfield developments **minimising** the contaminants and requiring financial contributions as to offset adverse effects from residual **stormwater** contaminants, and~~ ~~(b) encouraging **redevelopment** activities within existing urban areas to reduce the existing urban contaminant load, and~~ ~~(c) imposing **hydrological controls** on urban development and **stormwater** discharges to rivers, and~~ ~~(d) requiring a reduction in contaminant loads from urban **wastewater** and **stormwater** networks, and~~ ~~(e) stabilising stream banks by excluding **livestock** from waterbodies and planting riparian margins with indigenous vegetation, and~~ ~~(f) requiring the active management of **earthworks**, forestry, **cultivation**, and **vegetation clearance** activities, and~~ ~~(g) soil conservation treatment, including revegetation with woody vegetation, of land with **high erosion risk**, and~~ ~~(h) requiring **farm environment plans** (including Freshwater Farm Plans) to improve **farm** practices that impact on freshwater.~~	

		and (d) requiring a reduction in contaminant loads from urban **wastewater** and **stormwater** networks, and (e) stabilising stream banks by excluding **livestock** from waterbodies and planting riparian margins with indigenous vegetation, and (f) requiring the active management of **earthworks**, forestry, **cultivation**, and **vegetation clearance** activities, and (g) soil conservation treatment, including revegetation with woody vegetation, of land with **high erosion risk**, and requiring **farm environment plans** (including Freshwater Farm Plans) to improve **farm** practices that impact on freshwater.			

S240.035	Policy P.P4	Retain as notified	**Accept in part**	Policy P.P4: Achievement of the visual clarity target attribute states To achieve the visual clarity target attribute states in Table 9.4 in **part Freshwater Management Units** where the target attribute state is: (a) met, the mean annual sediment load must be at least maintained, and (b) where it is not met, a percentage reduction in the mean annual sediment load must be achieved as set out in Table 9.4. ~~Contaminant load reductions~~ ~~To achieve the coastal water objectives in Table 9.1 the Plan will manage land use activities and discharges into freshwater bodies and the coastal marine area to meet the sediment, zinc and copper load reductions for each **harbour** **arm catchment** as set out in Table 9.3.~~ ~~[refer below for Table 9.3]~~ ~~In addition to the **harbour arm catchment** load reductions, the mean annual sediment load must be reduced in the Takapū **part Freshwater Management Unit** as set out in Table 9.4 by 2040 to achieve the visual clarity target attribute states in Table 9.2.~~ **[refer below for Table 9.4]**	**Accept**

Table 9.1: Coastal water objectives

Parameter	Unit	Statistic	Timeframe	Coastal Water Management Units (Map 82)								~~Open coast~~
				Onepoto Arm				Pāuatahanui Inlet				
				Intertidal		Subtidal		Intertidal		Subtidal		
				Current state	Target	Current state	Target	Current state	Target	Current state	Target	
~~*Enterococci*~~	~~cfu/ 100 mL~~	~~95th %ile~~	~~2040~~	~~≤500~~				~~≤200~~				~~≤200~~
Macroalgae	EQR	Latest score	~~N/A~~ 2040	0.71	M	no data	M	0.71	M	no data	M	~~Maintain or Improve~~
Copper in sediment	mg/kg	Mean of replicate samples		3.9	~~M~~ <32.5	19.5	~~M~~ <32.5	3.8	~~M~~ <32.5	9.9	~~M~~ <32.5	
Zinc in sediment	mg/kg			53.9	~~M~~ <200	172.5	~~M~~ <305	32.5	<100	74.7	<100	
Muddiness	% >50% mud	Latest score		13.5	M	no data	M	13.5	M	no data	M	
	% of sample			9.3	M	94.5	M	9.4	M	63.0	M	
Sedimentation rate	mm/year	5-year mean		2.7	~~1~~ ≤2.7	9.8	~~1~~ ≤2.7	1.9	~~2~~ ≤3.2	2.8	~~2~~ ≤3.2	

M = Maintain; Maintenance in the state of a target will be assessed through:

- Benchmarking against the baseline threshold and trend analysis or appropriate statistical analysis; and
- Taking the impact of climate and human activity into account.

All current state data = most recent available as at 2025

Table 9.1A: Coastal water objectives - enterococci

Site	Current state[1]	Target[2]
Te Awarua-o-Porirua Harbour		
Waka Ama	2680	~~500~~ 50% improvement towards meeting 500
Rowing Club	1820	~~500~~ 50% improvement towards meeting 500
Paremata Bridge	378	~~200~~ 500
Water Ski Club	1083	~~500~~ 50% improvement towards meeting 500
Open Coast		
Karehana Bay at Cluny Road	408	~~M~~ 500
Plimmerton Beach at Bath Street	628	~~M~~ 500
Plimmerton at South Beach	738	~~M~~ 500
Titahi Bay at Bay Drive	293	~~M~~ 200
Titahi Bay at Toms Road	218	~~M~~ 200
Titahi Bay at South Beach Access Road	458	~~M~~ 500
Any other locations		
No monitoring sites	-	M

1. As at 17 December 2024, 5-year summer 95th %ile Cfu/100 ml
2. Cfu/100 ml 95th %ile

M = Maintain; Maintenance in the state of a target will be assessed through:

- Benchmarking against the baseline threshold and trend analysis or appropriate statistical analysis; and
- Taking the impact of climate and human activity into account.

Table 9.2: Target attribute states for rivers

Parameter	Unit	Statistic	Timeframe	Part Freshwater Management Units (Map 78)*																					
				Taupō					Pouewe					Wai-O-Hata					Takapū							
				Taupō S. @ Plimmerton Domain					Horokiri S. @ Snoderass					Duck Ck @ Tradewinds Dr. Br.					Pūautahanui S. @ Elmwood Br.							
				Baseline		TAS[1]		~~Part FMU standard~~ TAS*	Baseline		TAS[1]		~~Part FMU standard~~ TAS*	Baseline		TAS[1]		~~Part FMU standard~~ TAS*	Baseline		TAS[1]		~~Part FMU standard~~ TAS*		
				Numeric	State	Numeric	State		Numeric	State	Numeric	State		Numeric	State	Numeric	State		Numeric	State	Numeric	State			
Periphyton biomass	mg chl-a/m²	92nd %ile	By 2040	N/A[2]				~~M~~	~~436~~[3]	D	≤120	B	~~I~~	~~Insufficient data 31.8~~**	A**	≤120	B	~~I~~	Insufficient data		≤120	B	~~I~~		
Ammonia (toxicity)	mg/L	Median		0.011	B[4]	≤0.03	A	~~I~~	0.002	A	M[1]	A	~~M~~	0.013	A[4]	M[1]	A	~~M~~	0.005	A	M[1]	A	~~M~~		
		95th %ile		0.051		≤0.05			0.013					0.044					0.018						
Nitrate (toxicity)	mg/L	Median		0.4	B[4]	≤1	A	~~I~~	0.6	A		A		0.5	B[4]	≤1	A	~~I~~	0.3	A		A			
		95th %ile		2.1		≤1.5			1.1					1.6		≤1.5			0.8						
Suspended fine sediment	Black disc (m)	Median		1.2	A[4]	≥0.93	A	~~M~~	2.3	C		C		1.2	A[4]	≥0.93	A	~~M~~	1.8	D	≥2.22	C			
Escherichia coli (E. coli)	/100mL	Median		735	E[4]	≤130	~~B~~ C	~~I~~	370	E	≤130	~~B~~ C	~~I~~	703	E[4]	≤130	~~E~~ D	~~I~~	275	E	≤130	C	~~I~~		
		%>260/100mL		96		~~≤38.34~~			63		~~≤38.34~~			92		~~≤38.34~~			55		≤20				
		%>540/100mL		62		~~≤48.20~~			32		~~≤48.20~~			59		~~≤48.20~~			18		≤34				
		95th %ile		5,299		~~≤1,889~~ 1,200			4,950		~~≤1,886~~ 1,200			4,783		≤4,200			6,050		≤1,200				
Fish	Fish-IBI	Latest		~~Insufficient data 46~~**	A**	M[1]		~~M~~	~~Insufficient data 42~~**	A**	M[1]		~~M~~	Insufficient data		M[1]		~~M~~	~~Insufficient data 42~~**	A**	M[1]		~~M~~		
~~Fish community health (abundance, abundance and composition)~~		~~Expert assessment~~[5]		~~Insufficient data~~		~~N/A~~[5]	~~B~~		~~Insufficient data~~		~~N/A~~[5]	~~A~~		~~Insufficient data~~		~~N/A~~[5]	~~B~~		~~Insufficient data~~		~~N/A~~[5]	~~B~~			
Macroinvertebrates (1 of 2)	MCI	Median		75.9**	D**	≥100	B	~~I~~	115.0	B	≥130	A	~~I~~	104**	D**	≥100	B	~~I~~	101.2	D	≥105	B	~~I~~		
	QMCI	Median		3.5**		≥5			5.0		≥6.5			4.3**		≥5			3.8		≥5.25				
Macroinvertebrates (2 of 2)	ASPM	Median		0.17**	D**	≥0.4	B		0.5	B	M[1]	B	~~M~~	0.34	C**	≥0.4	B		0.4	C	≥0.40	C	~~M~~		
Deposited fine sediment[3]	%cover	Median		N/A[6]					10	A		A		~~6%~~	A**	M[1]		~~M~~	60	D	≤27	C	~~I~~		
Dissolved oxygen	mg/L	1-day minimum		Insufficient data		M[1]		~~M~~	Insufficient data		M[1]		~~M~~	Insufficient data		M[1]		~~M~~	Insufficient data		M[1]		~~M~~		
		7-day mean minimum																							
Dissolved inorganic nitrogen[7]	mg/L	Median		0.41[4]		≤1.03		~~I~~	0.64		M[1]		~~M~~	0.48[4]					0.33		M[1]		~~M~~		
Dissolved reactive phosphorus[7]	mg/L	Median		0.017[4]		M[1]		~~M~~	0.011					0.018[4]		M[1]			0.014						
		95th%ile		0.047[4]					0.026					0.05[4]					0.022						
Dissolved copper	µg/L	Median		0.61	D[4]	≤1	B	~~I~~	0.03	A[4]	M[1]	A	~~M~~	0.47	C[4]	≤1	~~A~~ B	~~I~~	0.06	A[4]	M[1]	A	~~M~~		
		95th %ile		4.69		≤1.8			0.12					2.93		≤1.4			0.27						
Dissolved zinc	µg/L	Median		3.91	C[4]	≤2.4	A	~~I~~	0.07	A[4]		A		1.96	B[4]	~~≤2.4~~ 8	~~A~~ B		0.11	A[4]		A			
		95th %ile		32.25		≤8			0.23					13.04		~~≤8.15~~			0.48						
~~Ecosystem metabolism~~	~~g O₂/m³-d~~*	~~N/A~~[8]		~~M~~																					

				Part Freshwater Management Units (Map 78)*					
				Te Rio o Porirua and Rangituhi					
				Porirua S. @ Milk Depot					
				Baseline		TAS†			
Parameter	Unit	Statistic	Timeframe	Numeric	State	Numeric	State	~~Part FMU def mntt TAS~~	Island rivers TAS‡
Periphyton biomass	mg chl-a/m²	92nd %ile	By 2040	~~Insufficient data~~ 45.6**	A**	≤120	B	~~I~~	M
Ammonia (toxicity)	mg/L	Median		0.006	A	M¶	A	~~M~~	
		95th %ile		0.034					
Nitrate (toxicity)	mg/L	Median		0.9	B	≤0.9	A	~~I~~	
		95th %ile		1.6		≤1.5			
Suspended fine sediment	Black disc (m)	Median		1.7	A	M¶	A	~~M~~	
Escherichia coli (E. coli)	/100mL	Median		1400	E	~~≤1800~~ 260	~~D~~	~~I~~	
		%>260/100 mL		95		~~≤2050~~			
		%>540/100 mL		83		~~≤5499~~			
		95th %ile		6950		~~≤12000~~ 6950			
Fish	Fish-IBI	Latest		Insufficient data		M¶		~~M~~	
~~Fish community health (abundance, structure and composition)~~		~~Expert assessment~~[4]		~~Insufficient data~~		~~N/A~~	~~C~~		
Macroinvertebrates (1 of 2)	MCI	Median		87.0	D	≥90	C	~~I~~	
	QMCI	Median		4.3		≥4.5			
Macroinvertebrates (2 of 2)	ASPM	Median		0.3	D	≥0.3	C		
Deposited fine sediment[3]	%cover	Median		20	C	M¶	C	~~M~~	
Dissolved oxygen	mg/L	1-day minimum		Insufficient data		M¶		~~M~~	
		7-day mean minimum							
Dissolved inorganic nitrogen[7]	mg/L	Median		0.92					
Dissolved reactive phosphorus[7]	mg/L	Median		0.018					
		95th%ile		0.034					
Dissolved copper	µg/L	Median		1.1	C	M¶	C		
		95th %ile		2.6					