Summary of Water Quality Objectives (WQOs) for marine waters of Ho	ona Kona .
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Parameter	Water Quality Objective	Water Control Zone (WCZ) / Part(s) of zone / Subzone to which the WQO applies
Aesthetic Appearance	There should be no objectionable odours or discolouration of the water. Tarry residues, floating wood, articles made of glass, plastic, rubber or of any other substances should be absent. Mineral oil should not be visible on the surface. Surfactants should not give rise to a lasting foam. There should be no recognisable sewage-derived debris. Floating, submerged and semi-submerged objects of a size likely to interfere with the free movement of vessels or cause damage to vessels should be absent. The waters should not contain substances which settle to	All WCZs (whole zone)
Dissolved Oxygen	form objectionable deposits. Not less than 2 mg/L for 90% of samples;	Marine waters of all WCZs except Tolo Harbour & Channel WCZ
(bottom) Dissolved Oxygen	Not less than 4 mg/L for 90% of samples;	Marine waters of all WCZs except Tolo Harbour & Channel WCZ
(Depth-averaged)		Harbour Subzone in Tolo Harbour & Channel WCZ
Dissolved Oxygen	Not less than 2 mg/L Not less than 3 mg/L	Buffer Subzone in Tolo Harbour & Channel WCZ
(bottom)	Not less than 4 mg/L	Channel Subzone in Tolo Harbour & Channel WCZ
Discolused Overser	Tot loss than 4 mg/L	Harbour Subzone and Buffer Subzone in Tolo Harbour &
Dissolved Oxygen (surface to 2m above bottom)	Not less than 4 mg/L	Channel WCZ
Dissloved Oxygen (all depths)	Not less than 4 mg/L	Channel Subzone in Tolo Harbour & Channel WCZ
	Annual mean depth-averaged total inorganic nitrogen not to exceed 0.1 mg/L	Marine waters of Southern WCZ and Port Shelter WCZ
	Annual mean depth-averaged total inorganic nitrogen	Marine waters of Mirs Bay WCZ, Junk Bay WCZ, North Western WCZ
	not to exceed 0.3 mg/L	(Castle Peak Subzone)
NI COLO	Annual mean depth-averaged total inorganic nitrogen	Marine waters of Eastern Buffer WCZ, Western Buffer WCZ,
Nutrients	not to exceed 0.4 mg/L	Victoria Harbour WCZ
	Annual mean depth-averaged total inorganic nitrogen	Marine waters of Deep bay WCZ (Outer Subzone) and
	not to exceed 0.5 mg/L	North Western WCZ (Whole zone except Castle Peak Subzone)
	Annual mean depth-averaged total inorganic nitrogen not to exceed 0.7 mg/L	Marine waters of Deep Bay WCZ (Inner Subzone)
Unionised Ammonia	Annual mean not to exceed 0.021 mg/L	All WCZs (whole zone) except Tolo Harbour & Channel WCZ
E.coli	Annual geometric mean not to exceed 610 cfu/100mL	Secondary contact recreation subzones in Tolo Harbour & Channel WCZ, Southern WCZ, Port Shelter WCZ, Mirs Bay WCZ, Deep Bay WCZ, North Western WCZ, Western Buffer WCZ
	Annual geometric mean not to exceed 610 cfu/100mL	Fish culture subzones in Tolo Harbour & Channel WCZ, Southern WCZ, Port Shelter WCZ, Junk Bay WCZ, Mirs Bay WCZ, Deep Bay WCZ, Eastern Buffer WCZ, Western Buffer WCZ
рН	To be in the range 6.5 - 8.5, change due to	Marine waters of all WCZs except Tolo Harbour & Channel WCZ
	waste discharge not to exceed 0.2	
	Change due to waste discharge not to be greater than ± 0.5	Harbour Subzone in Tolo Harbour & Channel WCZ
	Change due to waste discharge not to be greater than ± 0.3	Buffer Subzone in Tolo Harbour & Channel WCZ
	Change due to waste discharge not to be greater than ± 0.1	Channel Subzone in Tolo Harbour & Channel WCZ
Salinity	Change due to waste discharge not to exceed 10% of natural ambient level	All WCZs (Whole zone) except Tolo Harbour & Channel WCZ
	Change due to waste discharge not to be	Tolo Harbour & Channel WCZ
	greater than ± 3ppt Change due to waste discharge not to exceed 2°C	All WCZs (Whole zone) except Tolo Harbour & Channel WCZ
Temperature	Change due to waste discharge not to exceed 2 C Change due to waste discharge not to exceed 1°C	Tolo Harbour & Channel WCZ
Suspended Solids	Waste discharge not to raise the natural ambient level by 30% nor cause the accumulation of suspended solids which may adversely affect aquatic communities	Marine waters of all WCZs except Tolo Harbour & Channel WCZ
Toxicants	Not to be present at levels producing significant toxic effect	All WCZs (Whole zone)
Chlorophyll-a	Not to exceed 20mg/m³ (µg/L) calculated as running arithmetic mean of 5 daily measurements for any location and depth	Harbour Subzone in Tolo Harbour & Channel WCZ
	Not to exceed 10mg/m³ (µg/L) calculated as running arithmetic mean of 5 daily measurements for any location and depth	Buffer Subzone in Tolo Harbour & Channel WCZ
	Not to exceed 6mg/m³ (µg/L) calculated as running arithmetic mean of 5 daily measurements for any location and depth	Channel Subzone in Tolo Harbor & Channel WCZ