# WINISTRY OF ENVIRONMENT, HUMAN RESOURCE DEVELOPMENT & EMPLOYMENT

### Department of Environment

### Guidelines for coastal water quality

The following guidelines are hereunder published for the information of the public with regards to coastal ater quality requirements for various activities around the Republic of Mauritius.

#### Principal beneficial uses/objectives

			_
itegory	A -	Conse	rvation

ass Al - Conservation of coral community

ass A2 - Conservation of natural areas

tegory B - Recreation ass B1 - Primary contact

ass B2 - Secondary contact

tegory C - Fisheries

ıss C - Shellfish

tegory D - Industrial

iss D - Industrial and others

Al - Conservation of coral community

A2 - Conservation of natural areas such as mangroves, sea grass, wildlife habitat and marine spawning, nursing and feeding grounds.

B1 - Water sports like swimming, diving, surfing where there is direct contact.

B2 - Water sports such as boating, fishing and other activities involving less body contact or where direct contact with water may occur but the probability of body immersion is minimal.

CI - Propagation of marine life such as fish, crabs, shrimps, and other marine fauna.

C2 - Culture of shellfish - oysters, mussels, clams.

D - Natural water resources used as a receiving water body for industrial and agricultural discharges (harbour, power station and other industrial activities). There should be no unpleasant odour to people residing nearby.

ch activity requires different water quality and this is indicated undemeath

tegory A is meant for the conservation of the coral community and natural areas.

ass A1 is intended for the coral ecosystem and requires seawater quality that will not hamper healthy coral with.

ass A2 is for the conservation of natural areas as mentioned in the table above and requires a slightly less ngent water quality.

tegory B is intended for recreation purposes.

ass B1 defines the water quality needed for sports such as swimming, diving, surfing, etc. where there is ximum body contact with the water. For this class the potential health hazards due to pathogenic micro-anisms have been considered.

ass B2 is intended for water sports such as boating, fishing, etc. where there is likely to be minimal body that with water, and so the quality of the water is less stringent especially with regards to pathogenic pro-organisms.

tegory C concerns fisheries.

iss C1 is intended for the production of fish, crabs, shrimps, etc.

tegory D comprises the remaining coastal areas, which acros receiving body for industrial and agricultural charges and include the harbour, power generating plants, and other industrial activities. No limits are noted for pathogenic micro-organisms but there should be no impleasant adout to people residing nearby

## Coastal water quality requirements for various categories

CATEGORY		_ ^ _		В		C		D	
		Consen	Conservation		Recreation		icries .	Industrial	
Class		Al Coral Community	Vicas Vicas Vicas	B‡ Primary Contact	B2 Secondary Contact	caltace Vdas- C1	CI Shellfish	D Industrial & others	
Parameters.	Unit				·				
H		7,5 - 8.5	7.5 - 8.5	7.5 - 8.5	7.5 - 8.5	7.0 - 8.5	7.0 - 8.5	7.0 - 9.0	
Temperature		*mbient	ambient	ambient	ambient	ambient	ambient	ambient	
Suspended Solids	mig/l	5	5	5	10	15	15	ts	
Dissolved Oxygen	mgt	>5.	>5	>5	>5	>5	>5	>2	
Demical Oxygen	. mg/l	2 .	2	3	3	5	5	5	
oral Colifornia	CFU7100ml	1000	1000	1000	5000	1000	70°		
accal Coliforms	CFU/100ml	200	200	200	1000	200 .	142		
israte-nitrogen	mã√l	0.2	0.3	3.0	0.8	8.0	0.8	1.0	
hosphate	mg/l	0.04	0.05	0.08	0.08	0.08	0.03	0,1	
i) & Greasc	mg/l	Not detectable by N-hexane extraction method							
henot	mg/l	0.05							
rsenic	mg/l	0.05							
oderá gyv.	mg/l	0.02							
şanide	· mg/l	0:01							
การเกา	mg/l								
opper	mg/i								
:20	mg/i	0.05							
tal Mercury	mg/J	•	0.0003	;	<del></del>			- '	

by alkaline potassium permanganate method organisms per 100 ml by MPN method CFU: Colony Forming Unit

Date: 16 April 1999.