

62-302.530. Aquatic Life Use Physical, Chemical, Biological Criteria.

			AL-1	AL-2		AL-3	AL-4
Criteria Attribute	Parameter	Units		Predominantly Fresh Waters	Predominantly Marine Waters		
AL-PC	(1) Alkalinity	Milligrams/L as CaCO ₃		Shall not be depressed below 20		-	
AL-BIO	(10) Biological Integrity	Per cent reduction of Shannon-Weaver Diversity Index		The Index for benthic macroinvertebrates shall not be reduced to less than 75% of established background levels as measured using organisms retained by a U. S. Standard No. 30 sieve and collected and composited from a minimum of three Hester-Dendy type artificial substrate samplers of 0.10 to 0.15 m ² area each, incubated for a period of four weeks.	The Index for benthic macroinvertebrates shall not be reduced to less than 75% of established background levels as measured using organisms retained by a U. S. Standard No. 30 sieve and collected and composited from a minimum of three natural substrate samples, taken with Ponar type samplers with minimum sampling area of 225 cm ² .		
AL-PC	(11) BOD (Biochemical Oxygen Demand)		Shall not be increased to exceed values which would cause dissolved oxygen to be depressed below the limit established for each class and, in no case, shall it be great enough to produce nuisance conditions.				
AL-PC	(22) Conductance, Specific	Micromhos/cm		Shall not be increased more than 50% above background or to 1275, whichever is greater			

ALL	(25) Definitions (see Section 62-302.200, F.A.C.)		-	-	-	-	-
AL-PC	(30) Dissolved Oxygen	Milligrams/L		Shall not be less than 5.0. Normal daily and seasonal fluctuations above these levels shall be maintained.	Shall not average less than 5.0 in a 24-hour period and shall never be less than 4.0. Normal daily and seasonal fluctuations above these levels shall be maintained.		
ALL	(33) "Free Froms" (see Minimum Criteria in Section 62-302.500, F.A.C.)		Applicable to all classes.				
ALL	(34) "General Criteria" (see Section 62-302.510, F.A.C. and individual criteria)						
	(37) Imbalance (see Nutrients)						
ALL	(42) Minimum Criteria (see Section 62-302.500, F.A.C.)		Applicable to all classes.				

ALL	(43) Mixing Zones (See Section 62-4.246, F.A.C.)					
AL-BIO	(46) Nuisance Species		Substances in concentrations which result in the dominance of nuisance species: none shall be present.			
AL-PC	(47) (a) Nutrients		The discharge of nutrients shall continue to be limited as needed to prevent violations of other standards contained in this chapter. Man-induced nutrient enrichment (total nitrogen or total phosphorus) shall be considered degradation in relation to the provisions of Sections 62-302.300, 62-302.700, and 62-4.242, F.A.C.			
AL-BIO	(47) (b) Nutrients		In no case shall nutrient concentrations of a body of water be altered so as to cause an imbalance in natural populations of aquatic flora or fauna.			
AL-PC	(51) (a) pH (Class I and Class IV Waters). Applicable to HU1 and HU6.	Standard Units	Shall not vary more than one unit above or below natural background provided that the pH is not lowered to less than 6 units or raised above 8.5 units. If natural background is less than 6 units, the pH shall not vary below natural background or vary more than one unit above natural background. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below background.			
AL-PC	(51) (b) pH (Class II Waters). Applicable to HU2.	Standard Units	Shall not vary more than one unit above or below natural background of coastal waters as defined in Section 62-302.520(3)(b), F.A.C., or more than two-tenths unit above or below natural background of open waters as defined in Section 62-302.520(3)(f), F.A.C., provided that the pH is not lowered to less than 6.5 units or raised above 8.5 units. If natural background is less than 6.5 units, the pH shall not vary below natural background or vary more than one unit above natural background for coastal waters or more than two-tenths unit above natural background for open waters. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background.			

				background of coastal waters or more than two-tenths unit below natural background of open waters.		
AL-PC	(51) (c) pH (Class III Waters). Applicable to HU3.	Standard Units		Shall not vary more than one unit above or below natural background of predominantly fresh waters and coastal waters as defined in Section 62-302.520(3)(b), F.A.C. or more than two-tenths unit above or below natural background of open waters as defined in Section 62-302.520(3)(f), F.A.C., provided that the pH is not lowered to less than 6 units in predominantly fresh waters, or less than 6.5 units in predominantly marine waters, or raised above 8.5 units. If natural background is less than 6 units, in predominantly fresh waters or 6.5 units in predominantly marine waters, the pH shall not vary below natural background or vary more than one unit above natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit above natural background of open waters. If natural background is higher than 8.5 units, the pH shall not vary above natural background or vary more than one unit below natural background of predominantly fresh waters and coastal waters, or more than two-tenths unit below natural background of open waters.		
AL-PC	(51) (d) pH (Class V Waters). Applicable to HU3.	Standard Units		Not lower than 5.0 nor greater than 9.5 except certain swamp waters which may be as low as 4.5.		

AL-PC	(60) Specific Conductance (see Conductance, Specific, above)						
AL-PC	(65) Thermal Criteria (See Section 62-302.520)						
AL-PC	(66) Total Dissolved Gases	Percent of the saturation value for gases at the existing atmospheric and hydrostatic pressures	-	≤ 110% of saturation value	≤ 110% of saturation value		
AL-PC	(67) Transparency	Depth of the compensation point for photosynthetic activity		Shall not be reduced by more than 10% as compared to the natural background value.	Shall not be reduced by more than 10% as compared to the natural background value.		
AL-PC	(69) Turbidity	Nephelometric Turbidity Units (NTU)	-	≤ 29 above natural background conditions	≤ 29 above natural background conditions	-	-