

Implementation of Coastal Recreational Use Assessments in the Texas Integrated Report

2020 IR Guidance Advisory Workgroup Meeting

May 20, 2019

Coastal Recreation

- §307.3(a). Definition added for coastal recreation waters. Excludes tidal rivers or streams.
- §307.9(e)(3). Bacteria. Single sample maximum criterion applied in addition to geometric mean criterion for coastal recreation waters.
- EPA approved coastal recreational use criteria on November 2, 2018
- Implemented in 2018 Integrated Report

Assessment Method

- Enterococci Indicator
- Single Sample Criterion = 130 colonies/100mL
 - Minimum sample size = 7 (limited data set)
 - Impairment - 20% exceedance rate with 20% Type 1 error
 - Concern - 16% exceedance rate with 20% Type 1 error
 - < 20% exceedance required for delisting (20 samples)
- Geometric Mean Criterion = 35 colonies/100mL
 - Minimum sample size = 20
 - Confidence interval approach
- Exceedance of either method results in impairment

Fully Supporting (FS) No Concern (NC) Concern for Near Non-Attainment bt Supporting (CN) Not Supporting (NS)

Note that fewer samples than illustrated are not assessed(NA). Exceedances ratios less than that indicated ($\leq 20\%$) by the thick line can be delisted

Number of Samples	Number of Exceedances																															31-100						
	0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30							
	Need a minimum of 20 samples to assess unless there are 5/7 exceedances																																					
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Limited Data (LD)

Applicability

- 66 estuaries\bays and the Gulf of Mexico
- No tidal streams
- Does not change recreational beach assessments
 - Based on number of GLO advisory days
 - BAV = 104 col\100mL