

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

Oct. 3-4, 2023
Oct. 9-10, 2023

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INTRODUCTION

The following are water quality reports for the canals and contiguous waters of Padre Isles, Corpus Christi, Texas, which fulfill the monitoring requirements as set forth in a letter from TCEQ (Sidne Tiemann) to the USACE (Mark King) dated October 12, 1994. All temperature measurements are in degrees centigrade. All dissolved oxygen measurements are in milligrams per liter.

METEOROLOGICAL CONDITIONS

Oct. 3, 2023. Day. Pt. Cloudy. Wind SE 10 mph. 33.2 C.

Oct. 4, 2023. Night. Wind SSE 10 mph. 26.7 C.

Oct. 9, 2023. Day. Cloudy. Wind SSE 5 mph. 28.3 C.

Oct.10, 2023. Night. Intermittent showers. Wind NNW 5 mph. 24.4 C.

Date	Time	Station	Temp. C	D.O. mg/l
10/3/2023	1845	1	28.6	7.2
	1600	2	29.4	6
	1900	3	31.3	9.9
	1725	4	30	7.9
	1610	5	29.7	6.9
	1625	6	29.4	8.7
	1645	7	28.9	8.7
	1740	8	29.6	10.3
	1755	9	29.9	8.7
	1805	10	30	9.5
	1815	11	29.7	7.4
	1830	12	28.9	6.5
	1715	13	29.8	8.5
	1710	21	29.6	9.2
	1705	23	30.8	8.2

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
10/4/2023	705	1	28.7	5.8
	415	2	28.5	4.2
	715	3	29	5.8
	540	4	28.6	6.1
	425	5	28.4	6.3
	440	6	29.1	6.6
	500	7	28.9	6.8
	600	8	28.7	5
	615	9	29	6.5
	625	10	28.6	5.7
	635	11	29.3	6.2
	650	12	28.9	5.4
	530	13	28.9	6.6
	525	21	28.3	6.9
	520	23	29.1	6.4

All measurements taken one foot below the surface

NUTRIENTS

Water samples for nutrient analyses were collected one foot below the surface (S) and one foot above the bottom (B) at stations 1,5,6,8,9,10 and 11. Values are reported as milligrams per liter (mg/l or PPM) of the element in the compound. * The lower limit of detection is 0.001 mg/l for nitrate (NO₃-N) and nitrite (NO₂-N) nitrogen, and 0.016 mg/l for phosphate phosphorus (PO₄-P). ND means not detectable.

* Strickland and Parsons (1968). A Practical Handbook of Seawater Analysis. Fisheries Research Board of Canada. Ottawa.

Date	Time	Station	Depth(ft)	NO ₃ -N	NO ₂ -N	PO ₄ -P
10/3/2023	1845	1B	14	0.006	0.016	ND
		1S		0.01	0.002	ND
	1610	5B	12	0.015	0.005	ND
		5S		0.015	0.007	ND
	1625	6B	15	0.002	0.037	ND
		6S		0.008	0.001	ND
	1740	8B	13	0.004	ND	ND
		8S		0.004	ND	ND
	1755	9B	14	0.006	0.004	ND
		9S		0.008	0.004	ND
	1805	10B	15	0.003	ND	ND
		10S		0.003	ND	ND
	1815	11B	14	0.007	ND	ND
		11S		0.007	ND	ND
tide + 1 ft.						

Date	Time	Station	Temp C	D.O.mg/l
10/9/2023	1810	21	23	7.8
	1820	23	25.2	6.7
10/10/2023	615	21	23.4	7.8
	625	23	23.8	7.3

