

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

July 27-28, 2022
Aug. 2-3, 2022

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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

July 27, 2022. Day. Sunny. Wind SE 25 mph. 34.0 C.

July 28, 2022. Night. Wind S 5 mph. 27.7 C.

Aug. 2, 2022. Day. Sunny. Wind SE 25 mph. 34.1 C.

Aug. 3, 2022. Night. Wind SE 15 mph. 30.0 C.

Date	Time	Station	Temp. C	D.O. mg/l
7/27/2022	1905	1	32.3	8.3
	1610	2	31.4	6.7
	1915	3	31.8	8
	1735	4	32.1	7.5
	1620	5	32.1	5.9
	1635	6	31.8	6.6
	1655	7	32.2	5.8
	1755	8	32.6	8.7
	1815	9	31.3	7.3
	1825	10	33	9.2
	1835	11	31.3	8
	1850	12	31.2	5.7
	1725	13	31.9	7.4
	1720	21	32.1	7.6
	1720	23	32.4	8

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
7/28/2022	650	1	30.6	5.5
	410	2	30.2	4.2
	700	3	28.8	3.7
	530	4	30.6	5.6
	420	5	31	3.8
	435	6	30.8	4.4
	455	7	31.1	4.5
	545	8	29.2	3.1
	600	9	29.6	4.6
	610	10	29	2.5
	620	11	29.5	6.4
	635	12	29.9	4.8
	525	13	30.6	5.4
	520	21	30.6	4.9
	515	23	30.7	5.6

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
7/27/2022	1905	1B	12	0.007	ND	ND
		1S		ND	0.007	ND
	1620	5B	10	0.002	0.001	ND
		5S		0.001	0.006	ND
	1635	6B	13	ND	ND	ND
		6S		0.001	ND	ND
	1755	8B	11	0.003	0.001	ND
		8S		0.003	0.001	ND
	1815	9B	11	0.004	0.001	ND
		9S		0.004	ND	ND
	1825	10B	13	ND	0.007	ND
		10S		0.001	0.004	ND
	1835	11B	12	ND	ND	ND
		11S		ND	ND	ND

Date	Time	Station	Temp C	D.O.mg/l
8/2/2022	1800	21	31.7	6.8
	1810	23	32	7.1
8/3/2022	605	21	29	4.8
	615	23	29.1	5.7

