

# WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

August 6-7, 2020  
August 13-14, 2020

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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

8-6-2020. Day. Pt. cloudy. SE - 15 mph. 34.5 C

8-7-2020. Night. SE - 5 mph. 28.3 C

8-13-2020. Day. Sunny. SE - 15 mph. 35.3 C

8-14-2020. Night. S - 10 mph. 29.3 C



Date	Time	Station	Temp. C	D.O. mg/l
8/6/2020	1805	1	31.9	7.6
	1510	2	30.2	3.2
	1815	3	32.3	7.9
	1635	4	33.3	8.3
	1520	5	31.9	7
	1535	6	31.3	7.7
	1555	7	31.6	6.7
	1655	8	32.6	11.3
	1715	9	31.7	7.2
	1725	10	32.8	9.3
	1735	11	32.5	9.9
	1750	12	31.1	6.4
	1625	13	31.9	6.9
	1620	21	31.7	6.7
	1615	23	32.6	7.6

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
8/7/2020	655	1	30.6	3.2
	405	2	29.8	1.8
	705	3	29	2.9
	530	4	31.3	5.7
	415	5	30.8	3.6
	430	6	30.5	5.1
	450	7	31.3	6
	545	8	31.5	2.1
	605	9	30.2	4.4
	615	10	29.4	3
	625	11	30.2	5
	640	12	30	5
	520	13	30.8	5.6
	515	21	30.5	4
	510	23	30.9	5.3

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 0.007 mg/l for nitrate (NO<sub>3</sub>-N) and nitrite (NO<sub>2</sub>-N) nitrogen, and 0.010 mg/l for phosphate phosphorus (PO<sub>4</sub>-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 <sub>3</sub> -N	NO <sub>2</sub> -N	PO <sub>4</sub> -P
8/6/2020	1805	1B	10	0.028	ND	ND
		1S		0.02	ND	ND
	1520	5B	9	0.018	0.007	ND
		5S		0.018	0.007	ND
	1535	6B	12	0.018	ND	ND
		6S		0.014	0.01	ND
	1655	8B	9	0.018	0.008	ND
		8S		0.018	0.008	ND
	1715	9B	11	0.017	0.008	ND
		9S		0.017	0.008	ND
	1725	10B	12	0.015	0.01	ND
		10S		0.012	0.01	ND
	1735	11B	10	0.018	0.007	ND
		11S		0.018	0.007	ND



Date	Time	Station	Temp C	D.O.mg/l
8/13/2020	1710	21	32.9	6.9
	1720	23	33.8	7.7
8/14/2020	600	21	31.8	4
	615	23	32	5.1





