

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

June 13-14, 2021

June 20-21, 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

June 13, 2022. Day. Sunny. Wind SE 25 mph. 33.2 C.

June 14, 2022. Night. Wind SE 20 mph. 29.8 C.

June 20, 2022. Day. Pt. cloudy. Wind ESE 15 mph. 34.4 C.

June 21, 2022. Night. Wind ESE 5 mph. 29.3 C.

Date	Time	Station	Temp. C	D.O. mg/l
6/13/2022	1845	1	32.2	8.5
	1530	2	30.6	5.9
	1855	3	30.5	7.5
	1700	4	32.6	7.7
	1540	5	31.4	6.3
	1600	6	31.2	6.8
	1620	7	31.1	6.9
	1720	8	31.3	7.6
	1740	9	30.4	6.9
	1750	10	30.8	7.2
	1800	11	28.9	7.2
	1820	12	30.6	6.3
	1650	13	31.5	7.3
	1645	21	31.8	7.3
	1640	23	32.4	7.5

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
6/14/2022	640	1	30.3	4.7
	350	2	29.7	3.3
	650	3	27.7	3.2
	515	4	31	5.8
	400	5	30.3	3.9
	415	6	29.9	4.7
	435	7	30.6	5.3
	535	8	29.2	3.7
	550	9	29.7	5.2
	600	10	28.5	3.1
	610	11	29.4	5.4
	625	12	29.3	4.4
	505	13	30.4	6.2
	500	21	30.2	4.8
	455	23	30.8	5.7

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
6/13/2022	1845	1B	12	0.014	ND	ND
		1S		0.005	ND	ND
	1540	5B	10	ND		0.006
		5S		ND		0.006
	1600	6B	13	ND		0.014
		6S		ND		0.014
	1720	8B	11	0.005	ND	ND
		8S			0.005	ND
	1740	9B	11	0.01	ND	ND
		9S			0.01	ND
	1750	10B	13	ND		0.009
		10S		ND		0.009
	1800	11B	12	0.005	ND	ND
		11S		0.005	ND	ND

Date	Time	Station	Temp C	D.O.mg/l
6/20/2022	1720	21	32	7
	1730	23	32.8	7.8
6/21/2022	615	21	30.6	4.1
	625	23	31.2	5.3

