

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

July 24-25, 2023
July 31-Aug.1, 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

July 24, 2023. Day. Pt. cloudy. Wind SE 15 mph. 35.4 C.

July 25, 2023. Night. Wind SE 5 mph. 28.2 C.

July 31, 2023. Day. Pt. Cloudy. Wind ESE 15 mph. 34.3 C.

Aug.1, 2023. Night. Wind SSE 5 mph. 32.2 C.

Date	Time	Station	Temp. C	D.O. mg/l
7/24/2023	1905	1	33	7.8
	1620	2	32.2	6.3
	1915	3	34.4	8.6
	1745	4	34.1	9
	1630	5	33.2	5.1
	1645	6	33.1	7.5
	1705	7	32.8	5.6
	1800	8	34	9.2
	1815	9	31.9	6.2
	1825	10	34.5	10.9
	1835	11	32.7	9.1
	1850	12	32.3	5.2
	1735	13	33.5	8.7
	1730	21	33.7	8.3
	1725	23	34.1	9.5

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
7/25/2023	650	1	29.8	5.9
	405	2	30.9	2.3
	700	3	30.8	5.4
	530	4	31.5	5.6
	415	5	32.1	3.3
	430	6	31.8	5.1
	450	7	32.4	4.2
	545	8	30.5	2.7
	600	9	31.4	5.3
	610	10	31	5.2
	620	11	29	5.8
	635	12	30.5	3.5
	520	13	32.1	5.8
	515	21	31.8	5.1
	510	23	31.3	5.5

All measurements taken one foot below the surface

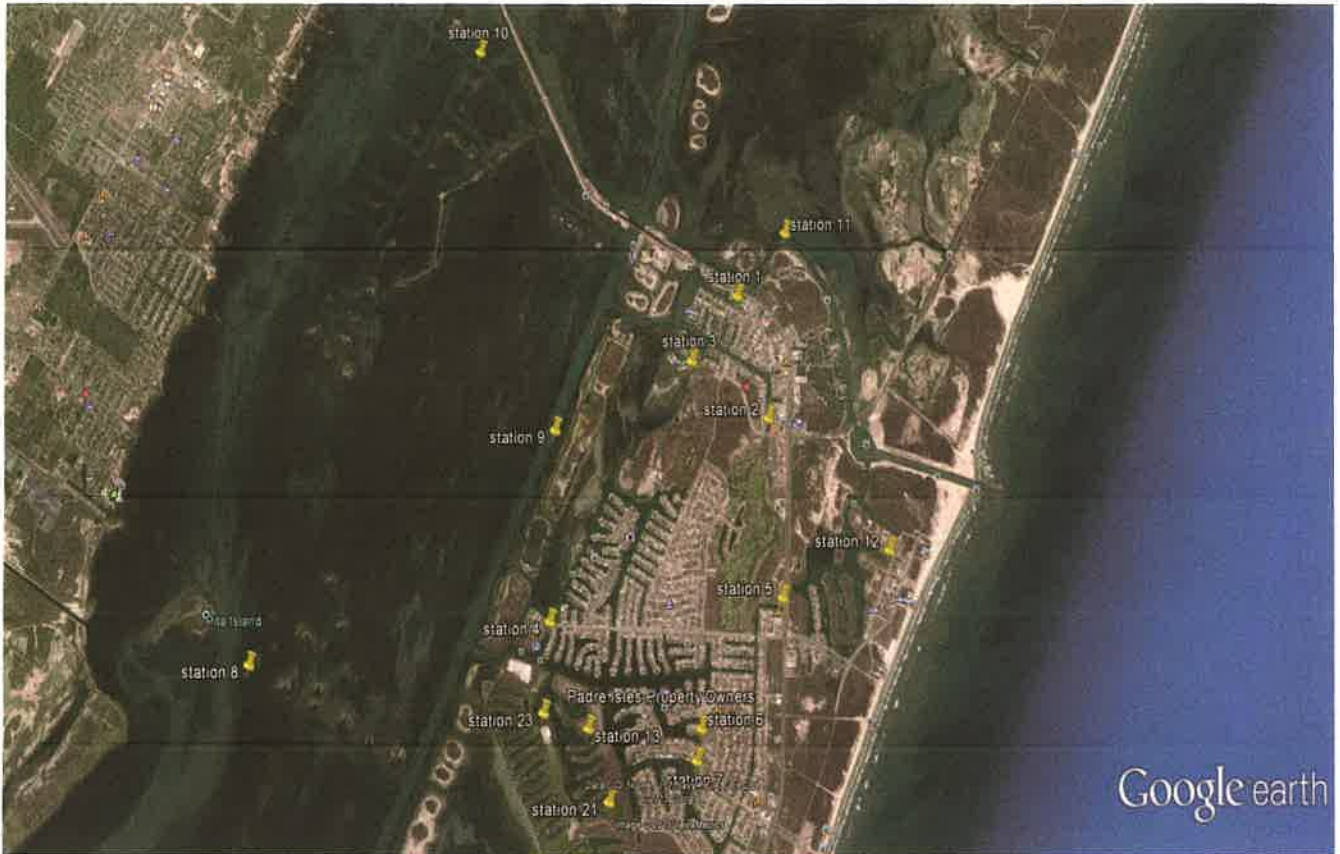
NUTRIENTS

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
7/24/2023	1905	1B	13	0.004	0.001	ND
		1S		0.001	0.004	ND
	1630	5B	11	ND		0.004
		5S			0.001	0.008
	1645	6B	14	0.001	0.022	0.016
		6S			0.005	0.002
	1800	8B	12	ND	ND	ND
		8S		ND	ND	ND
	1815	9B	13	ND	ND	ND
		9S		ND	ND	ND
	1825	10B	14	ND	ND	ND
		10S		ND	ND	ND
	1835	11B	13	ND	ND	ND
		11S		ND	ND	ND

Date	Time	Station	Temp C	D.O.mg/l
7/31/2023	1835	21	35.1	6.9
	1845	23	34.5	7.8
8/1/2023	540	21	30.9	3
	550	23	32.4	3.3



Google earth