

# WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

Aug. 20-21, 2023

Aug. 28-29, 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

Aug.20, 2023. Day. Pt. Cloudy. Wind ESE 10 mph. 34.3C.

Aug. 21, 2023. Night. Wind NE 5-10 mph. 29.2 C.

Aug. 28, 2023. Day. Pt. cloudy. Wind N 5 mph. 36.4 C.

Aug. 29, 2023. Night. Wind ENE 5 mph. 31.3 C.

Date	Time	Station	Temp. C	D.O. mg/l
<b>8/20/2023</b>	<b>1855</b>	<b>1</b>	<b>32.9</b>	<b>9.5</b>
	1710	2	32.7	6.7
	1905	3	32.5	9.3
	1735	4	32.9	9.4
	<b>1720</b>	<b>5</b>	<b>33.1</b>	<b>4.9</b>
	1735	6	33	7.4
	<b>1755</b>	<b>7</b>	<b>32.8</b>	<b>5.8</b>
	1750	8	33.6	8.3
	<b>1805</b>	<b>9</b>	<b>31.8</b>	<b>6.6</b>
	1815	10	32.5	7.5
	1825	<b>11</b>	<b>32.2</b>	<b>7.8</b>
	1840	12	32.2	5.6
	<b>1725</b>	<b>13</b>	<b>33.2</b>	<b>7.7</b>
	1720	21	33.2	7.1
	<b>1715</b>	<b>23</b>	<b>33.9</b>	<b>8.6</b>

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
<b>8/21/2023</b>	<b>650</b>	<b>1</b>	<b>29</b>	<b>5.3</b>
	400	2	30.3	4.1
	700	3	30.3	3.7
	525	4	30.8	5.6
	410	5	31.8	2.1
	425	6	31.6	4.9
	445	7	32.1	4.9
	540	8	30	2.6
	600	9	31.1	4.9
	610	10	30.9	5.4
	620	11	29.5	5.4
	635	12	31.1	4.8
	<b>515</b>	<b>13</b>	<b>31.3</b>	<b>5.9</b>
	510	21	31.7	4.4
	505	23	31.3	5.8

All measurements taken one foot below the surface

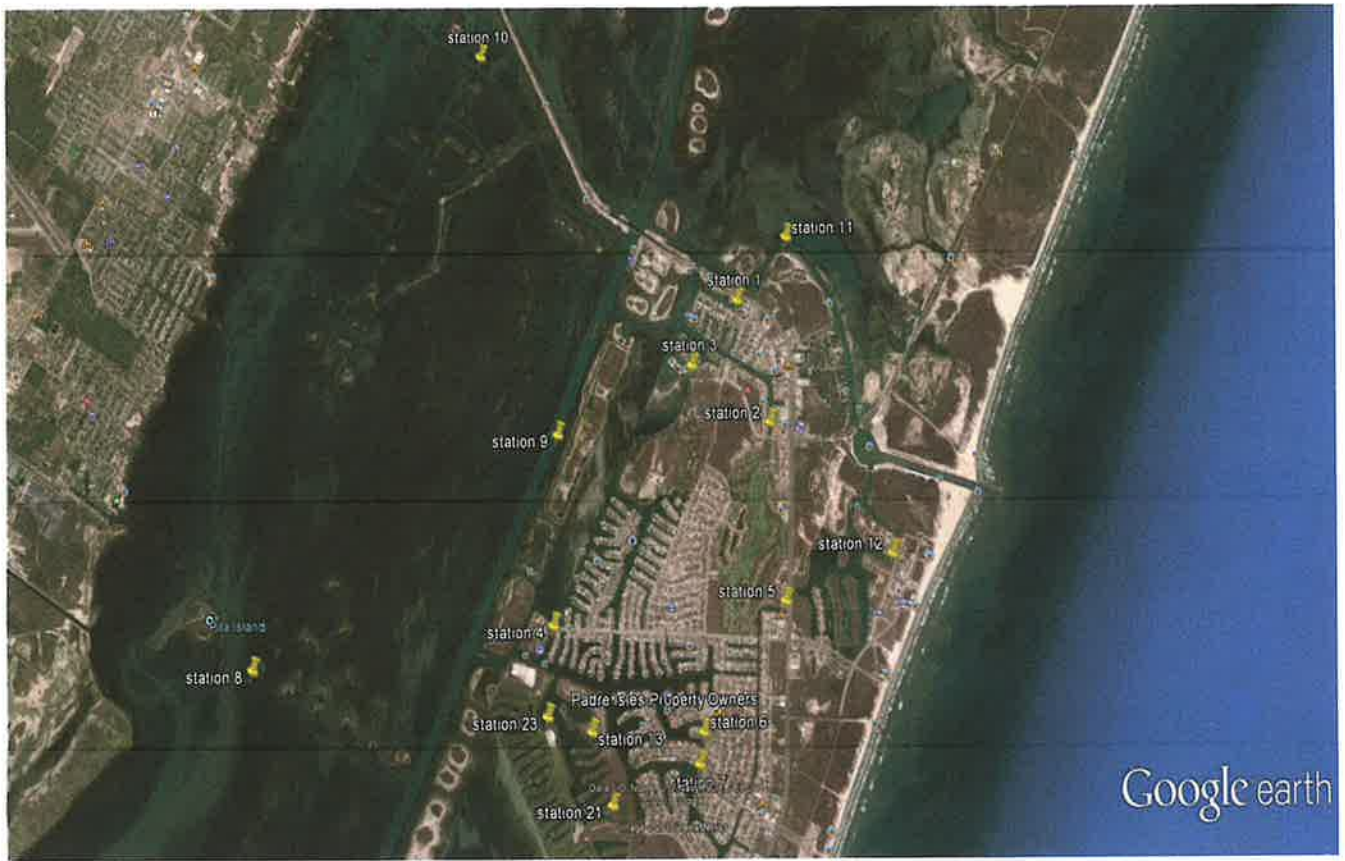
## NUTRIENTS

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 (NO<sub>3</sub>-N) and nitrite (NO<sub>2</sub>-N) nitrogen, and 0.016 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
8/20/2023	1855	1B	13	0.006	0.001	ND
		1S		0.004	0.001	ND
	1720	5B	11	0.005	0.003	0.045
		5S		0.005	0.003	0.058
	1735	6B	14	0.003	0.009	ND
		6S		0.002	0.005	ND
	1750	8B	12	0.002	ND	ND
		8S		0.002	ND	ND
	1805	9B	13	0.001	ND	ND
		9S		0.001	ND	ND
	1815	10B	14	0.001	ND	ND
		10S		0.001	ND	ND
	1825	11B	13	0.001	ND	ND
		11S		0.001	ND	ND

Date	Time	Station	Temp C	D.O.mg/l
8/28/2023	1900	21	31.7	7
	1910	23	32.4	8.4
8/29/2023	550	21	31.4	3.5
	600	23	31	4.1



Google earth