

# WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

Sept. 18-19, 2023

Sept. 25-26, 2023

ATTN: PETER SCHAEFER, STDS. IMPLEMENTATION TEAM

MC 150

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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

Sept. 18, 2023. Day. Clear. Wind SE 15 mph. 33.0 C.

Sept. 19, 2023. Night. Wind SE 5 mph. 28.0 C.

Sept. 25, 2023. Day. Pt. cloudy. Wind SSE 15 mph. 34.4 C.

Sept. 26, 2023. Night. Wind N 5 mph. 28.3 C.

Date	Time	Station	Temp. C	D.O. mg/l
9/18/2023	1925	1	31.3	7.8
	1630	2	31	6.3
	1935	3	32.1	9.3
	1800	4	31.7	11.2
	1640	5	31	5.9
	1655	6	30.3	7.3
	1715	7	31	7.2
	1820	8	32.3	10.8
	1835	9	31.9	10
	1845	10	31.1	8.7
	1855	11	31.4	8.2
	1910	12	30.4	6.7
	1750	13	30.8	7.1
	1745	21	31.3	7.5
	1740	23	32.1	8.2

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
<b>9/19/2023</b>	<b>655</b>	<b>1</b>	<b>28.4</b>	<b>6.1</b>
	410	2	29.2	1.9
	705	3	29.5	5.3
	535	4	30	5.8
	420	5	29.4	3.4
	435	6	29	4.3
	455	7	30	5.3
	555	8	28.6	5.6
	615	9	29.1	5.6
	625	10	28.9	5.4
	635	11	29.6	6.1
	640	12	29.1	5.4
	525	13	29.5	5.4
	520	21	29.2	5.2
	515	23	30.1	5.9

All measurements taken one foot below the surface

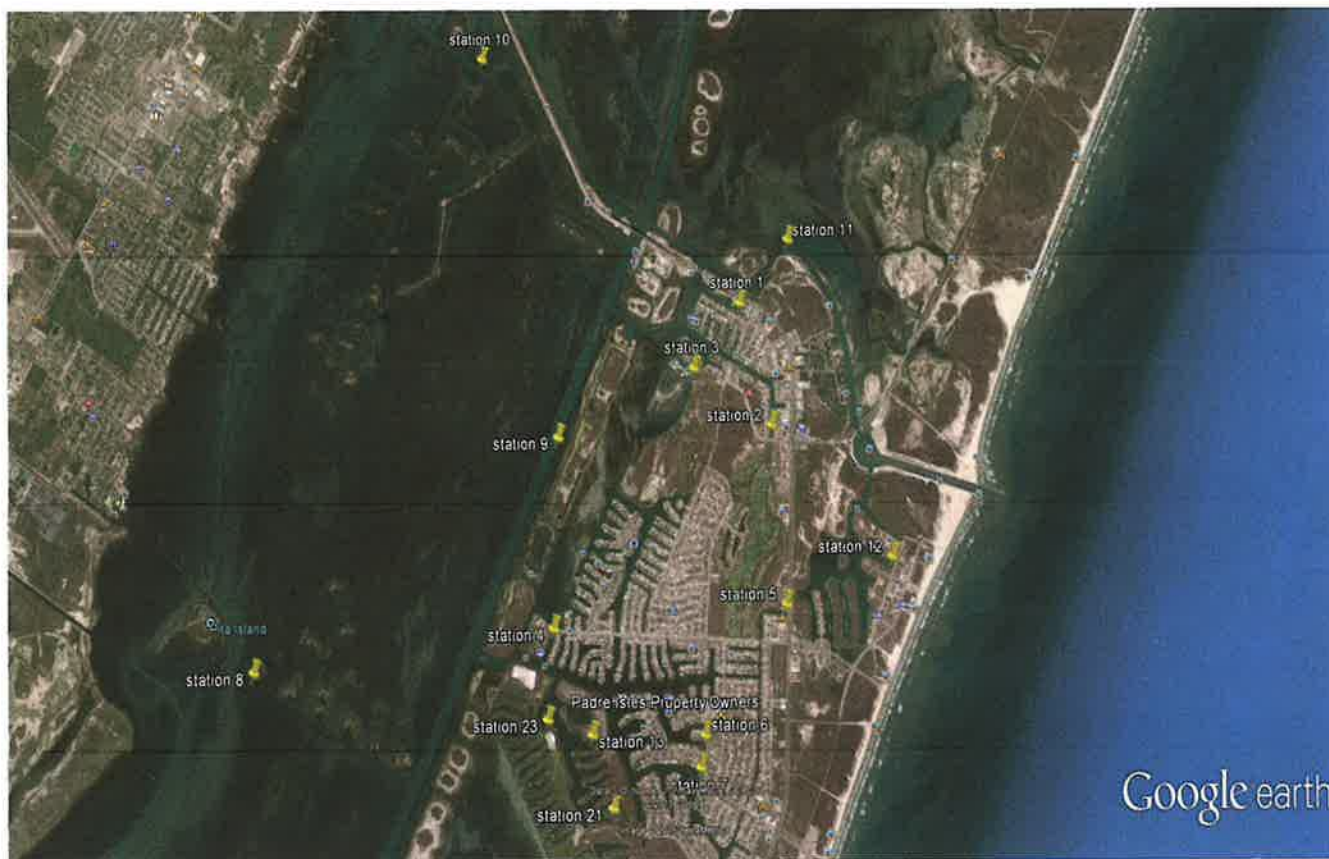
## NUTRIENTS

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
9/18/2023	1925	1B	13	0.015	ND	ND
		1S		0.008	ND	ND
	1640	5B	11	0.014	ND	ND
		5S		0.008	0.007	ND
	1655	6B	14	0.004	0.005	ND
		6S		0.012	0.004	ND
	1820	8B	12	0.006	ND	ND
		8S		0.006	ND	ND
	1835	9B	13	0.012	ND	ND
		9S		0.01	ND	ND
	1845	10B	14	0.006	ND	ND
		10S		0.006	ND	ND
	1855	11B	13	0.005	ND	ND
		11S		0.005	ND	ND

Date	Time	Station	Temp C	D.O.mg/l
9/25/2023	1830	21	31	6.8
	1840	23	31.8	7.5
9/26/2023	610	21	29.7	4.1
	620	23	30	4.4



Google earth