

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

Sept. 2-3, 2021

Sept. 9-10, 2021

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.2, 2021. Day. Partly cloudy. Wind SE - 10 mph. 34.2 C.

Sept.3, 2021. Night. Wind SE - 10 mph. 28.5 C.

Sept. 9, 2021. Day. Sunny. Wind E - 15 mph. 35.2 C.

Sept.10, 2021. Night. Wind N - 10 mph. 29.1 C.

Date	Time	Station	Temp. C	D.O. mg/l
9/2/2021	1925	1	32.5	8.3
	1630	2	30.9	5.4
	1935	3	33.7	8.4
	1755	4	32.6	7.8
	1640	5	31.5	6.2
	1655	6	31.1	5.8
	1715	7	31.5	5.3
	1815	8	32.6	10.3
	1835	9	32.8	9.4
	1845	10	32.8	10.3
	1855	11	31.6	7.7
	1910	12	31.3	6.2
	1745	13	31.8	7.8
	1735	21	32.9	7.7
	1740	23	31.4	7.4

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
9/3/2021	650	1	29.3	5.1
	400	2	29.7	3.6
	700	3	28.6	4.8
	520	4	30	5.8
	410	5	30.1	3.9
	425	6	30	3.3
	445	7	30.4	4.1
	540	8	29	3.3
	600	9	28.9	4.3
	610	10	29.6	6.2
	620	11	29.4	5.9
	635	12	30.1	4.4
	515	13	30.3	5.6
	510	21	29.8	4.4
	505	23	30.3	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 0.007 mg/l for nitrate (NO₃-N) and nitrite (NO₂-N) nitrogen, and 0.010 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
9/2/2021	1925	1B	11	0.007	0.008	ND
		1S		0.008	0.007	ND
	1640	5B	10	0.008	0.009	ND
		5S		0.008	0.009	ND
	1655	6B	13	ND	ND	ND
		6S		ND	ND	ND
	1800	8B	11	ND	ND	ND
		8S		ND	ND	ND
	1815	9B	11	0.014	0.012	ND
		9S		0.014	0.012	ND
	1845	10B	13	0.015	ND	ND
		10S		0.015	ND	ND
	1855	11B	11	0.017	ND	ND
		11S		0.017	ND	ND

Date	Time	Station	Temp C	D.O.mg/l
9/9/2021	1745	21	32.4	6.9
	1800	23	31.6	6.5
9/10/2021	615	21	30.1	4.8
	630	23	30.7	5.1

