

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

October 6-7, 2019
October 11-12, 2019

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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

10-6-2019. Day. Sunny. E - 15 mph. 31.2 C

10-7-2019. Night. SE - 0-5 mph. 27.4 C

10-11-2019. Day. Pt. Cloudy. N - 25 mph. 19.4 C

10-12-2019. Night. NNE - 15 mph. 18.3 C

Date	Time	Station	Temp. C	D.O. mg/l
10/6/2019	1845	1	30.4	8.5
	1600	2	29.8	6.3
	1900	3	31.5	9.2
	1725	4	30.5	8.2
	1610	5	30.3	6.8
	1625	6	30	7.6
	1645	7	30.2	7.1
	1740	8	30.8	10.3
	1755	9	29.9	7.6
	1805	10	30.9	10.9
	1815	11	30.5	8.2
	1830	12	30.2	7.6
	1715	13	29.9	7.1
	1710	21	30.2	7.7
	1705	23	31.3	8.5

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
10/7/2019	650	1	28.4	5.2
	400	2	29	3.8
	700	3	28.8	4.9
	530	4	29	5.9
	410	5	29.4	5
	425	6	29.3	5.3
	445	7	29.5	3.7
	545	8	28.6	3.2
	600	9	28.6	5.2
	610	10	28.6	4.7
	620	11	28.9	5.8
	635	12	28.9	5.3
	520	13	29.3	5.9
	515	21	28.9	5
	510	23	28.8	6.1

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
10/6/2019	1845	1B	11.5	ND	ND	ND
		1S		0.02	ND	ND
	1610	5B	10.5	0.013	0.007	ND
		5S		0.009	ND	ND
	1625	6B	13.5	0.009	0.016	ND
		6S		0.018	0.014	ND
	1740	8B	11.5	0.009	ND	ND
		8S		0.009	ND	ND
	1755	9B	12.5	ND	ND	ND
		9S		ND	ND	ND
	1805	10B	13.5	0.007	ND	ND
		10S		0.007	ND	ND
	1815	11B	11.5	ND	ND	ND
		11S		ND	ND	ND

Date	Time	Station	Temp C	D.O.mg/l
10/11/2019	1820	21	27.3	6.3
	1830	23	28.5	7.5
10/12/2019	615	21	26	5.2
	630	23	26.2	4.9



