

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

Sept. 18-19, 2020

Sept. 24-25, 2020

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

9-18-2020. Day. Pt. cloudy. NE - 15 mph. 31.0 C

9-19-2020. Night. N - 15-20 mph. 22.3 C

9-24-2020. Day. Sunny. NW- 10 mph. 32.3C

9-25-2020. Night. N-0 mph. 26.0 C

Date	Time	Station	Temp. C	D.O. mg/l
10/18/2020	1840	1	28.7	6.4
	1600	2	28.8	7.1
	1850	3	28.4	6.5
	1720	4	29.3	6.3
	1610	5	28.8	7
	1620	6	28.7	6.9
	1640	7	29.2	7
	1735	8	28.4	8.5
	1750	9	27.4	5.8
	1800	10	27.9	6.6
	1810	11	27.4	7.1
	1825	12	28.7	6.7
	1710	13	28.5	7
	1705	21	28.5	6.6
	1700	23	28.5	7

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
9/19/2020	640	1	26.4	5.5
	400	2	27	5.4
	650	3	26.5	6.1
	520	4	28.7	4.9
	410	5	27.9	4.9
	425	6	27.9	5.8
	540	7	28.1	5.3
	535	8	26.1	4.7
	550	9	26.5	5.6
	600	10	25.8	5
	610	11	26.9	6.4
	625	12	27	5.9
	510	13	27.3	6.3
	505	21	27.2	6
	500	23	27.3	6.3

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
9/18/2020	1840	1B	11	0.025	0.01	ND
		1S		0.014	0.012	ND
	1610	5B	10	0.026	0.007	ND
		5S		0.028	0.007	ND
	1620	6B	13	0.022	ND	ND
		6S		0.018	0.01	ND
	1735	8B	11	0.014	0.015	ND
		8S		0.014	0.015	ND
	1750	9B	12	0.021	0.013	ND
		9S		0.023	0.013	ND
	1800	10B	13	0.021	0.016	ND
		10S		0.021	0.016	ND
	1810	11B	11	0.017	ND	ND
		11S		0.02	ND	ND

Date	Time	Station	Temp C	D.O.mg/l
9/24/2020	1740	21	26.9	7.8
	1750	23	27	7.9
9/25/2020	630	21	25.9	7.3
	645	23	25.9	7.5



