

WATER QUALITY DATA PADRE ISLES AND CONTIGUOUS WATERS

May 1-2, 2020

May 8-9, 2020

ATTN: PETER SCHAEFER, STDS. IMPLEMENTATION TEAM

MC 150

DEPARTMENT OF THE ARMY PERMIT 9009

401CERTS@tceq.texas.gov

RUSSELL J. MIGET PhD

6010 IDYLWOOD DRIVE

CORPUS CHRISTI, TX 78412

(361) 947-3288

russell6104@att.net

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

5-1-2020. Day. Sunny. SSE - 20-25 mph. 31.0 C

5-2-2020. Night. SE - 10 mph. 24.3 C

5-8-2020. Day. Sunny. SE - 20 mph. 31.1 C

5-9-2020. Night. Light rain. NNE - 20 mph. 20.3 C

Date	Time	Station	Temp. C	D.O. mg/l
5/1/2020	1800	1	26.5	7.2
	1510	2	26.2	5.6
	1810	3	27.3	8.3
	1635	4	27.5	7.9
	1520	5	26.6	7.9
	1535	6	26.8	5.3
	1555	7	28	7.8
	1650	8	26.8	12.9
	1710	9	27	9.7
	1720	10	27	11
	1730	11	25.7	7.8
	1745	12	25.9	7.4
	1625	13	26.4	7.6
	1620	21	26.4	8
	1615	23	26.5	8

All measurements taken one foot below the surface.

Date	Time	Station	Temp. C	D.O. mg/l
5/2/2020	655	1	25.6	4.6
	400	2	25	3.2
	705	3	24.5	3.7
	525	4	25.7	6
	410	5	25.8	5.5
	425	6	25.5	2.5
	445	7	25.9	4.6
	545	8	24.3	5.2
	605	9	24.3	5
	615	10	24.1	4.6
	625	11	24.5	4.9
	640	12	24.8	5.3
	515	13	25.2	5.6
	510	21	25.1	5.7
	505	23	24.8	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 0.007 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
5/1/2020	1800	1B	11	0.014	0.008	ND
		1S		0.026	0.007	ND
	1520	5B	10	0.012	0.007	ND
		5S		0.012	ND	ND
	1535	6B	13	0.023	0.007	ND
		6S		0.027	ND	NS
	1650	8B	11	0.01	ND	ND
		8S		0.008	ND	ND
	1710	9B	12	0.032	0.007	ND
		9S		0.03	0.007	ND
	1720	10B	13	0.011	0.008	ND
		10S		0.009	0.008	ND
	1730	11B	11	0.01	ND	ND
		11S		0.01	ND	ND

Date	Time	Station	Temp C	D.O.mg/l
5/8/2020	1730	21	28.6	8
	1745	23	28.3	8.1
5/9/2020	630	21	26.5	5.6
	640	23	26.6	5.8



