QUALITY OF WATER - 1998

08-4590.00 RIO GRANDE AT LAREDO, TEXAS AND NUEVO LAREDO TAMAULIPAS

1998 Date	Time Standard	Streamflow Momentary CMS	Specific Conductance Micro-siemens /cm	pH Units	Water Temper-ature Deg C	Hardness, Total (as CaCO3) mg/L	Hardness, Noncarbonate (as CaCO3) mg/L	Calcium ion (Ca), Dissolved mg/L	Magnesium ion (Mg), Dissolved mg/L	Sodium ion (Na), Dissolved mg/L	Sodium Adsorption Ratio(SAR)	Potassium ion (K) Dissolved mg/L	Alkalinity Total (as CaCO3) mg/L	Sulfate ion (SO4) Dissolved mg/L	Chloride ion (Cl), Dissolved mg/L	Silica (SiO2) Dissolved mg/L
Jan. 28	0930	36.0	1,250	8.1	14.0	290	180	79	23	125	3	4.3	N.R.	230	150	8.2
Feb. 24	1310	36.0	1,170	8.0	19.0	310	170	84	22	126	3	4.7	138	220	150	10.0
Mar. 31	1030	30.0	1,210	8.1	22.0	290	170	79	23	128	3	5.0	125	230	150	10.0
April 27	1300	246	1,200	8.0	25.0	290	170	77	23	128	3	5.2	121	220	160	12.0
May 27	1100	110	1,240	8.1	27.0	290	160	76	24	136	3	5.3	126	230	170	11.0
June 16	1030	99.4	1,200	8.4	30.5	280	160	75	23	131	3	5.6	126	220	160	12.0
July 21	1230	35.4	1,280	8.0	29.5	290	180	71	26	145	4	5.5	109	230	170	14.0
Aug. 12	1130	36.0	1,260	8.3	28.5	290	180	72	26	144	4	5.5	106	230	170	14.0
Aug. 26	1500	3,140	219	7.5	27.0	80	15	28	3	6	0	2.7	65	16	6	5.7
Sept. 22	1000	39.1	720	7.9	27.0	190	100	57	11	58	2	4.9	88	120	78	7.8
Oct. 14	1050	2.32	1,190	8.0	N.R.	330	210	93	23	116	3	5.0	N.R.	210	160	14.0
Nov. 19	1000	24.9	1,100	8.1	22.0	290	170	82	21	101	3	3.8	121	200	140	9.6
Dec. 16	1025	18.7	1,280	8.0	14.0	350	200	100	25	116	3	4.2	N.R.	240	170	14.0

N.A.- Not Analyzed
N.R.- Not Reported

QUALITY OF WATER - 1998

08-4590.00 RIO GRANDE AT LAREDO WATER PLANT, LAREDO, TEXAS AND NUEVO LAREDO, TAMAULIPAS

SUSPENDED SILT - 1998

Month	Monthly Weight Megagrams		Number of Samples	Gravimetric Percentages			Silt Volume Thousand Cubic Meters**
	Water	Silt		Composite	Maximum Sample*	Minimum Sample*	Total
Jan.	105,391,000	6,430	31	0.0061	0.0095	0.0066	6.0
Feb.	86,244,000	1,980	28	0.0023	0.0081	0.0085	1.8
Mar.	91,653,000	4,310	31	0.0047	0.0149	0.0068	4.0
April	256,798,000	53,160	30	0.0207	0.0311	0.0060	49.8
May	448,312,000	38,110	31	0.0085	0.0139	0.0097	35.7
June	231,777,000	6,720	30	0.0029	0.0062	0.0063	6.3
July	118,584,000	3,200	31	0.0027	0.0068	0.0145	3.0
Aug.	528,371,000	504,100	31	0.0954	0.0543	0.0049	472.0
Sept.	99,870,000	18,780	30	0.0188	0.0624	0.0014	17.6
Oct.	70,563,000	2,610	31	0.0037	0.0115	0.0045	2.4
Nov.	53,153,000	1,490	30	0.0028	0.0023	0.0042	1.4
Dec.	48,064,000	673	31	0.0014	0.0025	0.0018	0.6
Year	2,138,780,000	641,563	365				600.6

* Represents the gravimetric percentages at the maximum flow and minimum flow of the month
** Volume calculated at 1.068 megagrams per cubic meter

SPECIFIC CONDUCTANCE OF WATER SAMPLES IN MICROSIEMENS/CM $ 25 DEG C - 1998

Day	Jan.	Feb.	Mar.	April	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
1	1,330	1,140	1,130	1,110	1,210 [3] 1,240	1,240	1,270	1,170	1,290	1,130	1,000	
2	1,090	1,100	1,140	1,110	1,200	1,240	1,230	1,260	1,220	1,200	1,190	1,000
3	1,090	1,470	1,160	1,120	1,200	1,210	1,210	1,240	1,220	1,210	1,210	1,100
4	1,360	1,460	1,080	1,120	1,200	1,180	1,210	1,240	1,360	1,280	1,220	1,080
5	1,410	1,320	1,080	1,160	1,200	1,180	1,260	1,230	1,390	1,270	1,230	1,140
6	1,350	1,430	1,090	1,160	1,190	1,220	1,260	1,150	1,480	1,060	1,230	1,150
7	1,060	1,070	1,090	1,220	1,200	1,220	1,210	1,210	1,480	1,210	1,210	1,090
8	1,050	1,110	1,110	1,180	1,200	1,210	1,240	1,230	1,490	1,100	1,200	1,130
9	960	1,080	1,110	1,230	1,220	1,250	1,210	1,210	1,480	890	1,220	1,050
10	1,240	1,110	1,140	1,220	1,240	1,270	1,230	1,210	1,540	940	1,200	1,180
11	980	1,160	1,110	1,180	1,260	1,260	1,200	1,210	1,570	930	1,190	1,190
12	1,530	1,100	1,100	1,200	1,230	1,210	1,240	1,220	1,330	910	1,160	1,200
13	1,010	1,100	1,100	1,170	1,200	1,150	1,240	1,110	1,580	1,040		1,150
14	1,300	1,130	1,110	1,170	1,220	1,120	1,240	1,180	1,600	1,020		1,190
15	1,040	1,090	1,130	1,200	1,200	1,110	1,260	1,180	1,580	1,110		1,170
16	990	1,080	1,100	1,180	1,270	1,180	1,260	1,100	1,570	1,160		1,190
17	970	1,060	1,100	1,210	1,250	1,190	1,250	1,190	1,480	1,130		1,070
18	1,220	1,110	1,080	1,210	1,300	1,210	1,230	1,080	1,090	1,110		1,200
19	1,030	1,160	1,080	1,180	1,240	1,180	1,250	990	590	1,070		1,130
20	1,250	1,080	1,140	1,170	1,230	1,220	1,230	930	560	940		1,130
21	1,340	1,060	1,150	1,170	1,250	1,270	1,230	970	590	970	1,180	1,150
22	1,360	1,160	1,100	1,210	1,210	1,220	1,260	940	680	970		1,170
23	1,120	1,090	1,090	1,180	1,250	1,220	1,250	700	890	870	1,180	1,180
24	1,100	1,090	1,090	1,210 [3] 1,250	1,230	1,250	630	1,010	890	1,160	1,190	
25	1,450	1,110	1,140	1,220	1,230	1,250	1,260	880	1,150	960	1,170	1,190
26	1,540	1,100	1,120	1,170	1,250	1,240	1,250	510	1,290	1,000	1,150	1,170
27	1,530	1,110	1,150	1,200	1,230	1,220	1,250	360	1,290	1,090	1,150	1,150
28	1,300	1,130	1,160	1,210	1,280	1,230	1,260	510	1,320	1,080	1,140	1,150
29	1,570		1,170	1,240	1,240	1,240	1,260	720	1,300	990	1,140	1,150
30	1,220		1,160	1,220	1,220	1,230	1,260	920	1,310	990	1,140	1,150
31	1,170		1,180		1,240		1,260	1,050		1,120		1,150