



CANAL WATER QUALITY REPORT

Sample ID: D201740856
Location: Neches Main Canal @ Office
Date: 6/22/2020
Time: 0750
Source: Neches River

Secchi: 0.17
Pressure: 29.9 in Hg
Weather: Cloudy
Wind: Calm
Days Since Precipitation: 12

Laboratory Notes:

Silica reported from 10x dilution, Sulfate reported from full strength sample (1x).

Parameter	Recent Values	Min	-1 σ [†]	Historical Average*	+1 σ [†]	Max
Alkalinity, Total (mg/L)	25	10	15	22	28	45
Chloride (mg/L)	13.1	5	8.4	13.8	19.3	79.5
Color, True (pcu)	44	5	40	93	147	257
Conductivity (μ S/cm)	140	38	99	134	170	382 [‡]
DO (% saturation)	80	27	61	74	87	107
DO (mg/L)	6.1	2.3	4.8	6.6	8.5	12.5
Iron, Total (mg/L)	1.92	0.02	0.93	1.58	2.23	6.65
Hardness (mg/L)	39	13	26	33	40	89
Manganese (mg/L)	0.10	0.02	0.05	0.10	0.14	0.39
pH (units)	7.2	5.4	6.4	6.8	7.3	8.1
Silica (mg/L)	12.0	0.1	7.5	10.0	12.4	18.0
Sulfate (mg/L)	21.2	5	11.6	18.3	25.0	36.2
Tannins & Lignins (mg/L)	0.5	0.2	0.5	1.3	2.1	4.1
Temperature ($^{\circ}$ C)	29.2	6.1	15.2	22.1	28.9	33.5
TOC (mg/L)	7.2	0.5	8.2	13.0	17.8	29.4
TSS (mg/L)	34.8	5	5.9	17.2	28.6	94.0
Turbidity (NTU)	33.5	9.0	15.9	28.2	40.5	177.0

10	Calcium	calculated as mole weight of calcium carbonate
91	TDS	calculated at 0.65 conductivity

* Historical values are from March 13th, 2007 to July 15th, 2019 at Neches Main Canal @ Office.

[†] A number of parameters do not follow normal distributions, such as TSS, Tannins & Lignins, and True Color.

[‡] Max conductance date coincides with Hurricane Ike.