



City of
Corpus
Christi

**WATER
DEPARTMENT**

2726 Holly Road
Corpus Christi
Texas 78415

PO Box 9277
Corpus Christi
Texas 78469-9277
Phone 361-857-1881
Fax 361-857-1889

Water Utilities Laboratory
13101 Leopard Street
Corpus Christi
Texas 78410
Phone 361-826-1200
Fax 361-242-9131
www.ctexas.com

Monthly Mineral Analyses
Date of Sample: October 17, 2017

Parameter	Choke Canyon	Lake CC	Stevens Intake	Lake Texana
Aluminum	0.134	0.074	2.33	0.260
Sodium	95.3	67.5	74.4	68.0
Iron	< 0.20	< 0.20	1.97	0.216
Manganese	0.015	0.021	0.115	0.097
Copper	< 0.002	< 0.002	0.005	0.003
Lead	< 0.002	< 0.002	< 0.002	< 0.002
Bromide	1.0816	0.7955	0.6309	< 0.02
Conductivity	831	788	721	119
Total Alkalinity	151	205	217	58
Calcium	78	86	90	19
Chloride	156.1	129.7	129.8	4.66
Fluoride	0.15	0.17	0.23	0.11
Total Hardness	180	232	244	56
pH	8.32	8.59	8.19	7.66
Silica, Dissolved*	27.8	32.1	38.5	15.8
Sulfate	71.4	57.7	56.1	2.29
Turbidity	11	18	65	14
Dissolved Solids	543	532	562	124
Suspended Solids	10	8	124	8
Nitrate	0.03	0.03	0.07	0.19
Nitrite	< 0.02	< 0.02	0.04	< 0.02
Ortho Phosphorous	< 0.2	0.2	0.3	0.2
Atrazine	< 0.6	< 0.6	< 0.6	< 0.6
Total Arsenic	8.94	9.35	10.5	9.73
Dissolved Arsenic	9.16	10.3	10.2	2.85
Barium	0.103	0.147	0.173	0.162
Cadmium	< 0.002	< 0.002	< 0.002	< 0.002
Mercury	< 0.0002'	< 0.0002	< 0.0002	< 0.0002

Results expressed in mg/L, except as follows: Conductivity – umhos/cm, pH – SU, Turbidity – NTU, and Atrazine, Total Arsenic, Dissolved Arsenic – µg/L, Total Hardness/Total Alkalinity – mg/L as CaCO₃

* Calculation based on conversion from Silicon to Silica



Approved by: MB Juarez Title: Laboratory Manager Date: 11/3/2017



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Monthly Mineral Analyses
Date of Sample October 17, 2017

Parameter	Stevens Treated (Plant #1)	Stevens Treated (Plant #2)	Distribution System Equivalent
Aluminum	0.208	0.210	0.229
Sodium	56.5	57.0	56.1
Iron	< 0.20	< 0.20	< 0.20
Manganese	< 0.005	0.008	0.067
Copper	< 0.002	< 0.002	< 0.002
Lead	< 0.002	< 0.002	< 0.002
Bromide	0.2080	0.2117	0.2132
Conductivity	554	535	538
Total Alkalinity	130	129	130
Calcium	50	51	56
Chloride	70.4	75.9	77.9
Fluoride	0.47	0.50	0.48
Total Hardness	160	148	160
pH	8.00	8.02	8.10
Silica, Dissolved*	17.5	17.8	18.6
Sulfate	66.4	69.6	71.3
Turbidity	0.10	0.10	0.05
Dissolved Solids	38.0	374	386
Suspended Solids	< 2	< 2	< 2
Nitrate	0.60	0.21	0.22
Nitrite	< 0.02	< 0.02	< 0.02
Ortho Phosphorous	< 0.2	< 0.2	< 0.2

Results expressed in mg/L, except as follows: Conductivity – umhos/cm, pH – SU, and Turbidity – NTU.

* Calculation based on conversion from Silicon to Silica



Approved by: M. B. Juarez Title: Laboratory Manager Date: 11/3/2017