



City of
Corpus
Christi

**WATER
DEPARTMENT**

2726 Holly Road
Corpus Christi
Texas 78415

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Water Utilities Laboratory
13101 Leopard Street
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Monthly Mineral Analyses
Date of Sample: November 12, 2019

Parameter	Choke Canyon	Lake CC	Stevens Intake	Mary Rhodes Pipeline
Aluminum	0.139	0.507	0.321	0.865
Sodium	76.2	39.1	24.5	12.0
Iron	0.09	0.35	0.27	0.65
Manganese	0.013	0.026	0.015	0.019
Copper	<0.002	<0.002	0.003	0.002
Lead	<0.0005	0.0005	<0.0005	0.0006
Bromide	0.56	0.16	0.37	0.07
Conductivity	796	663	1109	245
Total Alkalinity	144	190	152	86
Calcium	77	88	120	30
Chloride	104	63	73	14
Fluoride	0.29	0.25	0.24	0.18
Total Hardness	180	268	252	120
pH	8.38	8.51	8.02	8.19
Silica, Dissolved*	23.9	26.9	14.3	12.2
Sulfate	58.0	34.0	27.0	4.0
Turbidity	5.0	24	17	30
Dissolved Solids	430	398	460	170
Suspended Solids	7	24	8	5
Nitrate	0.100	0.152	0.320	0.29
Nitrite	<0.025	<0.025	0.071	<0.025
Ortho Phosphorous	<0.05	<0.05	<0.05	<0.05
Atrazine	<0.1	<0.1	0.1	0.1
Total Arsenic	7.1	6.5	4.2	3.9
Dissolved Arsenic	6.4	5.9	4.0	3.3
Barium	0.087	0.137	0.070	0.075
Cadmium	< 0.001	< 0.001	< 0.001	< 0.001
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

Reviewed by: [Signature] Title: Technical Manager Date: 12 JAN 20

Approved by: [Signature] Title: Laboratory Manager Date: 1/06/2020





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Monthly Mineral Analyses
Date of Sample November 12, 2019

Parameter	Stevens Treated (Plant #1)	Stevens Treated (Plant #2)	Distribution System Equivalent
Aluminum	0.235	0.224	0.185
Sodium	76.4	70.2	80.5
Iron	<0.007	<0.007	<0.007
Manganese	<0.0005	0.0006	<0.0005
Copper	<0.002	<0.002	<0.002
Lead	<0.0005	<0.0005	<0.0005
Bromide	0.25	0.23	0.26
Conductivity	798	788	827
Total Alkalinity	120	111	125
Calcium	63	79	69
Chloride	107	95	111
Fluoride	0.73	0.61	0.68
Total Hardness	184	176	192
pH	7.87	7.86	7.96
Silica, Dissolved*	15.0	14.1	15.3
Sulfate	82.0	80	88
Turbidity	0.10	0.10	0.10
Dissolved Solids	420	370	450
Suspended Solids	< 2	< 2	< 2
Nitrate	0.48	0.56	1.03
Nitrite	0.037	< 0.025	< 0.025
Ortho Phosphorous	< 0.05	< 0.05	< 0.05

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

Reviewed by:  Title: Technical Manager Date: 31 DEC 19

Approved by:  Title: Laboratory Manager Date: 12/31/19

