



City of
Corpus
Christi

**WATER
DEPARTMENT**

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Corpus Christi
Texas 78415

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Monthly Mineral Analyses
Date of Sample: September 12, 2017

| Parameter | Choke Canyon | Lake CC | Stevens Intake | Lake Texana |
|--------------------|--------------|---------|----------------|-------------|
| Aluminum | 0.054 | 0.072 | 0.070 | 0.094 |
| Sodium | 96.0 | 71.2 | 140 | 2.98 |
| Iron | <0.20 | <0.20 | <0.20 | <0.20 |
| Manganese | 0.0148 | 0.0183 | 0.0224 | <0.005 |
| Copper | <0.002 | <0.002 | <0.002 | 0.0025 |
| Lead | <0.002 | <0.002 | <0.002 | <0.002 |
| Bromide | 1.1 | 0.61 | 1.2 | < 0.02 |
| Conductivity | 804 | 733 | 1227 | 113 |
| Total Alkalinity | 149 | 201 | 209 | 50 |
| Calcium | 62 | 83 | 114 | 18 |
| Chloride | 141 | 105 | 242 | 3.3 |
| Fluoride | 0.27 | 0.25 | 0.25 | 0.09 |
| Total Hardness | 184 | 236 | 308 | 60 |
| pH | 8.44 | 8.74 | 8.11 | 7.36 |
| Silica, Dissolved* | 30.0 | 34.2 | 36.4 | 16.0 |
| Sulfate | 62 | 47 | 83 | 1.8 |
| Turbidity | 9.1 | 14 | 9.2 | 7.3 |
| Dissolved Solids | 522 | 507 | 807 | 100 |
| Suspended Solids | 7 | 8 | 3 | 2 |
| Nitrate | 0.10 | 0.11 | 0.17 | 0.12 |
| Nitrite | < 0.02 | < 0.02 | < 0.02 | < 0.02 |
| Ortho Phosphorous | < 0.03 | 0.12 | 0.12 | 0.14 |
| Atrazine | <0.6 | <0.6 | <0.6 | <0.6 |
| Total Arsenic | 9.16 | 9.59 | 10.4 | 2.10 |
| Dissolved Arsenic | 9.32 | 9.57 | 9.92 | 2.44 |
| Barium | 0.114 | 0.166 | 0.171 | 0.052 |
| 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: M. B. Juarez Title: Laboratory Manager Date: 10/2/17



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Monthly Mineral Analyses
Date of Sample September 12, 2017

| Parameter | Stevens Treated (Plant #1) | Stevens Treated (Plant #2) | Distribution System Equivalent |
|--------------------|-------------------------------|-------------------------------|-----------------------------------|
| Aluminum | 0.206 | 0.140 | 0.152 |
| Sodium | 98.6 | 93.5 | 96.2 |
| Iron | <0.20 | <0.20 | <0.20 |
| Manganese | 0.0069 | 0.0134 | <0.005 |
| Copper | <0.002 | <0.002 | <0.002 |
| Lead | <0.002 | <0.002 | <0.002 |
| Bromide | 0.33 | 0.37 | 0.37 |
| Conductivity | 764 | 790 | 818 |
| Total Alkalinity | 132 | 132 | 147 |
| Calcium | 67 | 64 | 67 |
| Chloride | 140 | 132 | 132 |
| Fluoride | 0.50 | 0.50 | 0.46 |
| Total Hardness | 196 | 200 | 200 |
| pH | 7.82 | 8.00 | 8.13 |
| Silica, Dissolved* | 19.7 | 19.7 | 20.3 |
| Sulfate | 86 | 83 | 84 |
| Turbidity | 0.2 | 0.2 | 0.2 |
| Dissolved Solids | 547 | 531 | 536 |
| Suspended Solids | < 2 | < 2 | < 2 |
| Nitrate | 0.13 | 0.14 | 0.19 |
| Nitrite | < 0.02 | < 0.02 | < 0.02 |
| Ortho Phosphorous | < 0.03 | < 0.03 | < 0.03 |

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: 10/2/17