



City of
Corpus
Christi

**WATER
DEPARTMENT**

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Corpus Christi
Texas 78415

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Monthly Mineral Analyses
Date of Sample: April 15, 2020

| Parameter | Choke Canyon | Lake CC | Stevens Intake | Mary Rhodes Pipeline |
|-------------------|--------------|----------|----------------|----------------------|
| Aluminum | 0.13 | 1.5 | 1.4 | 2.3 |
| Sodium | 76.0 | 42.1 | 54.4 | 18.8 |
| Iron | 0.08 | 0.93 | 0.80 | 1.8 |
| Manganese | 0.013 | 0.020 | 0.027 | 0.045 |
| Copper | < 0.002 | < 0.002 | <0.002 | 0.002 |
| Lead | < 0.0005 | < 0.0005 | 0.0005 | 0.0012 |
| Bromide | 0.55 | 0.29 | 0.13 | 0.10 |
| Conductivity | 825 | 704 | 834 | 389 |
| Total Alkalinity | 151 | 198 | 203 | 109 |
| Calcium | 48 | 77 | 85 | 40 |
| Chloride | 95 | 61 | 19 | 19 |
| Fluoride | 0.27 | 0.24 | 0.22 | 0.28 |
| Total Hardness | 248 | 260 | 272 | 152 |
| pH | 8.35 | 8.47 | 8.23 | 8.13 |
| Silica, Total* | 19.9 | 25.5 | 27.4 | 17.5 |
| Sulfate | 62 | 40 | 25 | 25 |
| Turbidity | 2.4 | 23.0 | 22.0 | 64.0 |
| Dissolved Solids | 449 | 420 | 241 | 243 |
| Suspended Solids | 6 | 13 | 13 | 43 |
| Nitrate | 0.11 | 0.16 | 1.28 | 1.27 |
| Nitrite | <0.02 | <0.02 | <0.02 | <0.02 |
| Ortho Phosphorous | <0.05 | 0.12 | 0.21 | 0.20 |
| Atrazine | < 2.4 | < 2.4 | < 2.4 | < 2.4 |
| Total Arsenic | 7.2 | 6.3 | 6.6 | 3.3 |
| Dissolved Arsenic | < 10.0 | < 10.0 | < 10.0 | < 10.0 |
| Barium | 0.09 | 0.14 | 0.14 | 0.10 |
| 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; *Silica is reported as Total Silica for the month of January 2020 only.

Reviewed by: [Signature] Title: Technical Manager Date: 4/29/2020

Approved by: [Signature] Title: Laboratory Manager Date: 4/29/20





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Monthly Mineral Analyses
Date of Sample: April 15, 2020

| Parameter | Stevens Treated (Plant #1) | Stevens Treated (Plant #2) | Distribution System Equivalent |
|-------------------|-------------------------------|-------------------------------|-----------------------------------|
| Aluminum | 0.24 | 0.21 | 0.20 |
| Sodium | 54.2 | 54.2 | 59.5 |
| Iron | < 0.007 | < 0.007 | < 0.007 |
| Manganese | 0.0012 | 0.0015 | 0.0007 |
| Copper | < 0.002 | < 0.002 | < 0.002 |
| Lead | < 0.0005 | < 0.0005 | < 0.0005 |
| Bromide | 0.18 | 0.17 | 0.20 |
| Conductivity | 679 | 674 | 725 |
| Total Alkalinity | 147 | 139 | 156 |
| Calcium | 69 | 53 | 66 |
| Chloride | 55 | 55 | 64 |
| Fluoride | 0.61 | 0.58 | 0.58 |
| Total Hardness | 204 | 192 | 228 |
| pH | 8.27 | 8.20 | 8.13 |
| Silica, Total* | 15.0 | 14.3 | 15.7 |
| Sulfate | 73 | 75 | 78 |
| Turbidity | 0.05 | 0.05 | 0.05 |
| Dissolved Solids | 361 | 360 | 395 |
| Suspended Solids | <2 | <2 | <2 |
| Nitrate | 0.94 | 0.93 | 0.60 |
| Nitrite | 0.02 | 0.02 | <0.02 |
| Ortho Phosphorous | < 0.05 | < 0.05 | < 0.05 |

Results expressed in mg/L, except as follows: Conductivity – umhos/cm, pH – SU, and Turbidity – NTU.
*Silica is reported as Total Silica for the month of January 2020 only.

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