

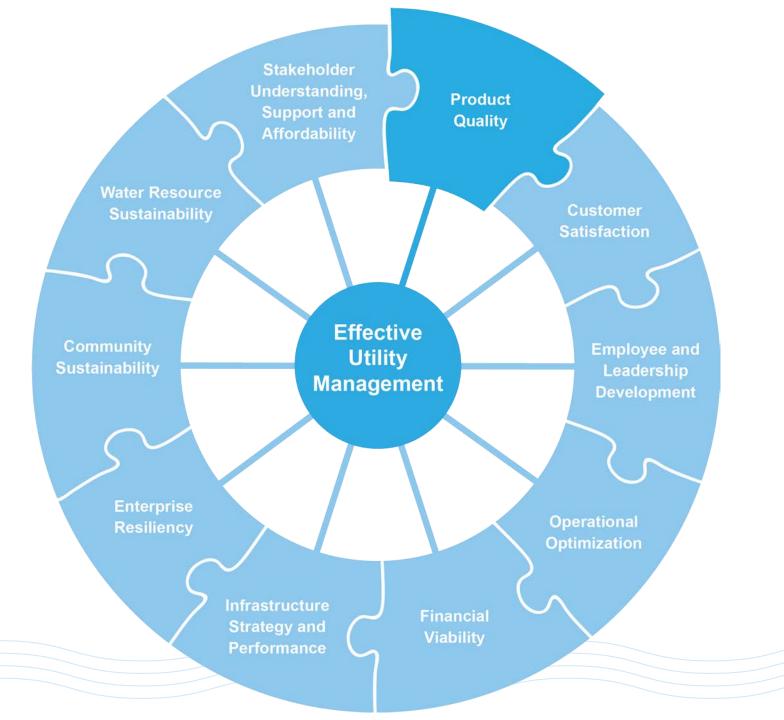


Austin WaterTreatment Plants

Rick Coronado

Assistant Director - Operations

November 7, 2019



PRODUCT QUALITY

- Complies with regulatory and reliability requirements
- Consistent with customer; public health, and ecological needs



Monthly Performance Dashboard



- Trained O&M Technicians to perform Threshold Odor Number (TON) Test at every facility
- Performed various taste and odor removal experiments using permanganate and activated carbon
- Evaluated isolating pipelines at Davis WTP as a non-chemical zebra mussel mitigation method
- Feeding Powdered Activated Carbon (PAC) at Ullrich and Davis WTPs for odor control seems to have a secondary benefit of controlling ZM proliferation

Drinking Water Quality Fiscal Year 2019: Cloudiness of water (turbidity)



Measured turbidity "cloudiness of water" is the indicator of the effectiveness of our filtration systems.

Our target is to keep treated drinking water turbidity level at 0.10 Nephelometric Turbidity Unit (NTU) or less.

Wastewater Quality Fiscal Year 2019



Ensure stream water quality by keeping the Carbonaceous Biological Oxygen Demand (CBOD) concentration from our wastewater treatment plants discharges at 3.0 mg/L or less.



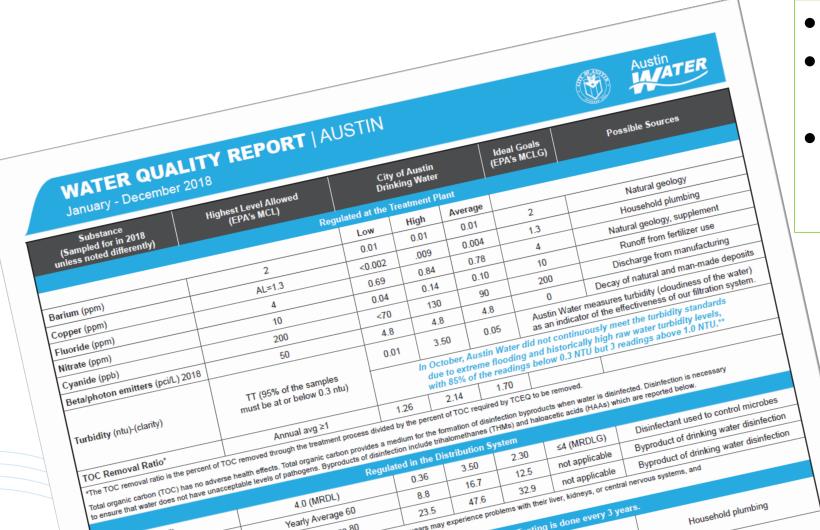






Consumer Confidence Report (CCR)

www.austinwater.org/waterquality



- Annual Report received July 1
- Regulated/Unregulated Test
- October 2018 exceedance
 - Turbidity (clarity of water)



October 2018 Flooding After Action

Resiliency Strategies

- Polymer Feed Systems at all Water Treatment Plants
- Water Quality Event Response Procedures
- Laboratory Equipment (Zeta Potential Meter)



City of Austin
Process Treatment Recommendation Resulting
from October 2018 Flood Event

OCTOBER 16, 2018 FLOOD EVENT REPORT AND RESULTING RECOMMENDATIONS

FINAL | July 2019





February 2019 Taste and Odor Event

Zebra Mussel Mitigation

- Diving/Cleaning Contract
- Copper Sulfate Chemical Contract (Jan 2020)
- Sodium Permanganate Feeding System (Handcox WTP)
- Powdered Activated Carbon





Water Quality Monitoring

Water Quality Monitoring

- Algae Monitoring
- Cyanotoxin Testing
- Taste and Odor Monitoring

Lake Water

Sampling date: October 14, 2019			
Analyte	Davis WTP	Ullrich WTP	Handcox WTP
	(ug / L)	(ug / L)	(ug / L)
Anatoxin-a	ND	ND	ND
Cylindrospermopsin	ND	ND	ND
Total Microcystins	ND	ND	ND
ND - non-detect			



Wastewater Treatment Plant Effluent

Permit Parameters

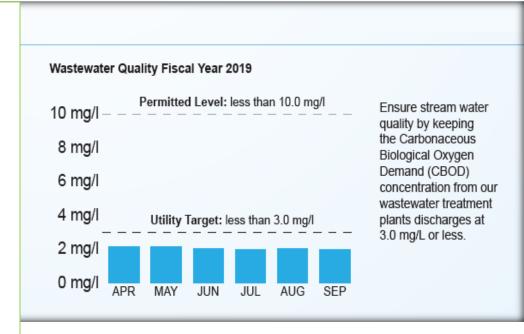
- Carbonaceous Biochemical Oxygen Demand (CBOD)
- Total Suspended Solids (TSS)
- Ammonia Nitrogen
- Disinfection Parameters

South Austin Regional & Walnut Creek WWTP

2018 Silver Peak Performance Awards

Current Permits are under renewal (SAR and Walnut)







Questions?





