



2018 WATER QUALITY REPORT SAN ANTONIO WATER SYSTEM

PWS ID Number: TX 0150018

MAXIMUM RESIDUAL DISINFECTANT LEVEL – Monitored in the Distribution System

Parameter/Substance	Test Year	Average Concentration Found	Minimum Level	Maximum Level	MRDL	MRDLG	Units	Likely Source of Contamination
Chlorine Residual, Free	2017	1.50	0.24	3.1	4	4	ppm	Disinfectant used to control microbes

LEAD AND COPPER – Monitoring Done at Customers' Taps

Parameter/Substance	Date Sampled	MCLG	AL	90th Percentile	Number of Sites Over AL	Units	Violation	Likely Source of Contamination
Copper	2017	1.3	1.3	0.24	0	ppm	No	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	2017	0	15	3.25	0	ppb	No	Corrosion of household plumbing systems; erosion of natural deposits

DISINFECTANTS AND DISINFECTION BY-PRODUCTS – Monitored in the Distribution System

Parameter/Substance	Collection Date	Highest Locational Running Annual Average	Concentration Range Found	MCLG	MCL	Units	Violation	Likely Source of Contamination
Total Trihalomethanes (THMs)	2017	67.7	0 – 87.2	NA	80	ppb	No	By-product of drinking water disinfection
Total Haloacetic Acids (HAAs)	2017	16	0 – 23.9	NA	60	ppb	No	By-product of drinking water disinfection

INORGANIC CONTAMINANTS – Monitored at the Water Plants

Parameter/Substance	Collection Date	Highest Level Detected	Concentration Range Found	MCLG	MCL	Units	Violation	Likely Source of Contamination
Barium	2017	0.113	0.0355 – 0.199	2	2	ppm	No	Discharge from drilling wastes; discharge from metal refineries; erosion of natural deposits
Copper	2017	0.0152	0 – 0.152	AL = 1.3	1.3	ppm	No	Corrosion of household plumbing systems; erosion of natural deposits
Fluoride	2017	0.84	0.14 – 0.84	4	4	ppm	No	Erosion of natural deposits; discharge from fertilizer and aluminum factories; added for dental health
Nitrate	2017	2.79	0 – 2.79	10	10	ppm	No	Runoff from fertilizer use; leaching from septic tanks; sewage; erosion of natural deposits
Selenium	2017	3.0	ND – 3.0	50	50	ppb	No	Discharge from petroleum and metal refineries; erosion of natural deposits; discharge from mines

RADIOACTIVE CONTAMINANTS – Monitored at the Water Plants

Parameter/Substance	Collection Date	Highest Level Detected	Concentration Range Found	MCLG	MCL	Units	Violation	Likely Source of Contamination
Combined Radium 226/228	2017	2.61	ND – 2.61	0	5	pCi/L	No	Erosion of natural deposits
Gross Alpha, excluding Radon and Uranium	2017	5.3	ND – 5.3	0	15	pCi/L	No	Erosion of natural deposits of certain minerals
Gross Beta/Photon Emitters	2017	11.7	ND – 11.7	0	50	pCi/L	No	Decay of natural and man-made deposits
Uranium (mg/L)	2017	1.3	ND – 1.3	0	30	ppm	No	Erosion of natural deposits

VOLATILE ORGANIC CONTAMINANTS – Monitored at the Water Plants

Parameter/Substance	Collection Date	Highest Level Detected	Concentration Range Found	MCLG	MCL	Units	Violation	Likely Source of Contamination
Xylenes, Total	2017	2.2	ND – 2.2	10,000	10,000	ppb	No	Discharge from petroleum and chemical factories

SYNTHETIC ORGANIC CONTAMINANTS

Parameter/Substance	Collection Date	Highest Level Detected	Concentration Range Found	MCLG	MCL	Units	Violation	Likely Source of Contamination
Di(2-Ethylhexyl Phthalate)	2017	1.3	ND – 1.3	0	6	ppb	No	Discharge from rubber and chemical factories