

2018 Sampling Results

Customers served water by the Joint Water Commission & Cherry Grove Slow Sand Filter Plant

REGULATED SUBSTANCES										
Substance	Unit of Measure	Year Sampled	MCL (MRDL)	MCLG (MRDLG)	JWC Water Treatment Plant Amount Detected	Range Low-High	Slow Sand Filter Plant Amount Detected	Range Low-High	Violation	Typical Source
Chlorine	ppm	2018	4	4	1.36	1.00 - 1.36	1.64	1.23 - 1.64	No	Additive controls microbes
Nitrate (as Nitrogen)	ppm	2018	10	10	0.54	0.04-0.54	0.11	0.02 - 0.11	No	Agricultural runoff
Barium	ppm	2018	2	2	0.006	0.004 - 0.006	0.001	ND - 0.001	No	Erosion of natural deposits
Hexachlorocyclopentadiene	ppm	2018	0.05	0.05	0.00014	ND - 0.00014	ND	ND	No	Agricultural runoff
MICROBIOLOGICAL TESTING & TREATMENT CONSIDERATIONS										
<i>E. coli</i>	Presence or Absence	2018	0	0	ND	ND	ND	ND	No	Human and animal fecal waste
Total Organic Carbons	ppm	2018	TT	NA	1.09	ND - 1.09	0.81	0.40 - 0.81	No	Naturally present in environment
Turbidity	NTU	2018	TT	NA	0.43	0.02 - 0.43	0.49	0.05 - 0.49	No	Soil runoff
Turbidity	Percent	2018	TT	NA	97%	97-100%	100%	100%	No	Soil runoff
(Lowest monthly percentage of samples meeting limit of 0.3 NTU for JWC and 1 NTU for SFFP)										
DISINFECTION BY-PRODUCTS (DBP)										
Total Trihalomethanes	ppb	2018	80	NA	37.2	15.8 - 43.1	18.3	10.8 - 17.9	No	By-product of chlorination
Haloacetic Acid	ppb	2018	60	NA	36.7	15.7 - 36.1	20.3	14.3 - 21.4	No	By-product of chlorination
LEAD AND COPPER TESTING										
Substance	Unit of Measure	Year Sampled	Action Level (AL)	MCLG (MRDLG)	Amount Detected 90th Percentile	Sites Above AL	Amount Detected 90th Percentile	Sites Above AL	Violation	Typical Source
Lead	ppb	2018	15	0	1	0	5	0	No	Corrosion of plumbing
Copper	ppm	2018	1.3	1.3	0.075	0	0.087	0	No	Erosion natural deposits
OTHER ITEMS OF INTEREST										
Substance	Year	Range (mg/L)	Substance	Year	Range (mg/L)	Others of Items Interest:	Range (mg/L)			
Aluminum	2018	ND - 0.02	Orthophosphate	2018	ND	Fluoride:	Hillsboro does not Fluoridate			
Ammonia	2018	ND - 0.01	Silica	2018	15.5 - 19.4	Hardness:	Hardness: 18.6-38 mg/L = grains per gallon			
Calcium	2018	4.76 - 8.71	Sodium	2018	6.31 - 10.70	pH:	pH (Normal range): 7.2-8.0			
Chloride	2018	3.6 - 6.4	Sulfate	2018	1.3 - 14.6					
Magnesium	2018	1.62 - 2.82	Manganese	2018	ND					
Iron	2018	ND								
During the past year, hundreds of water samples have been taken in order to determine the presence of any biological, inorganic, volatile organic, or synthetic organic contaminants. The table shows only contaminants that were detected and are considered a risk to health if over the Maximum Contaminant Level (MCL). A more detailed list of sampling completed in 2018 is available on the Joint Water Commission website at JWCWater.org .										