

WSSC TAP WATER ANALYSIS - 2018

PATUXENT WATER FILTRATION PLANT					
PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹
<u>GENERAL WATER QUALITY</u>					
Alkalinity	mg/L	33	38	26	
Color	Units	n/d	n/d	n/d	15 (SMCL)
Hardness	mg/L	64	96	48	
pH	S.U.	7.4	8.2	7.1	6.5-8.5 (SMCL)
Specific Conductance	MicroSiemens/cm	217	486	157	
Temperature	° C	16.1	27.1	3.2	
Threshold Odor	Units	1.0	1.5	1.0	3 (SMCL)
Turbidity ¹	NTU	0.03	0.09	0.02	TT=1 NTU; <0.3 NTU 95% of time
Geosmin	ng/L	3.0	6.6	n/d	
2-Methylisoborneol	ng/L	2.8	15.1	n/d	
<u>METALS</u>					
Aluminum	µg/L	16	27	8.4	200 (SMCL)
Antimony	µg/L	n/d	n/d	n/d	6
Arsenic	µg/L	n/d	n/d	n/d	10
Barium	mg/L	0.03	0.03	0.02	2
Beryllium	µg/L	n/d	n/d	n/d	4
Cadmium	µg/L	n/d	n/d	n/d	5
Calcium	mg/L	17	25	14	
Total Chromium	µg/L	n/d	n/d	n/d	100
Copper	mg/L	0.012	0.020	0.005	
Iron	mg/L	n/d	n/d	n/d	0.3 (SMCL)
Lead	µg/L	n/d	n/d	n/d	
Magnesium	mg/L	4.8	5.9	3.8	
Manganese	µg/L	1.8	9.0	n/d	50 (SMCL)
Mercury	µg/L	n/d	n/d	n/d	2
Nickel	µg/L	n/d	n/d	n/d	
Potassium	mg/L	3.2	3.6	2.6	
Selenium	µg/L	n/d	n/d	n/d	50
Silicon	mg/L	3.5	3.9	3.2	
Silver	µg/L	1.1	12	n/d	100 (SMCL)
Sodium	mg/L	14	20	10	
Thallium	µg/L	n/d	n/d	n/d	2
Zinc	µg/L	<2	2.3	n/d	5000 (SMCL)
<u>INORGANICS</u>					
Boron	mg/L	0.007	0.008	0.007	
Chloride	mg/L	36	48	29	250 (SMCL)
Residual Chlorine	mg/L	1.6	2.3	0.6	TT=>0.2
Fluoride	mg/L	0.5	0.6	0.4	4 (SMCL=2)
Nitrate	mg/L	1.4	1.8	0.9	10
Nitrite	mg/L	n/d	n/d	n/d	1
Phosphorus	mg/L	0.27	0.37	0.22	
Sulfate	mg/L	7.2	22	4.6	250 (SMCL)
<u>DISINFECTION BYPRODUCT PRECURSOR</u>					
Total Organic Carbon	mg/L	1.8	2.6	1.2	TT
<u>ORGANICS</u>					
Haloacetic Acids (HAA5)	µg/L	24	38	8.3	
Total Trihalomethanes (TTHMs)	µg/L	24	46	9.2	
<u>PESTICIDES & SYNTHETIC ORGANIC CHEMICALS (SOCs)</u>					
2,3,7,8-TCDD (Dioxin)	pg/L	n/d	n/d	n/d	30
2,4,5 TP (Silvex)	µg/L	n/d	n/d	n/d	50
2,4-D	µg/L	n/d	n/d	n/d	70
3-Hydroxycarbofuran	µg/L	n/d	n/d	n/d	
Alachlor	µg/L	n/d	n/d	n/d	2

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PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹	
<u>PESTICIDES & SYNTHETIC ORGANIC CHEMICALS (SOCs)</u>						
Aldicarb	µg/L	n/d	n/d	n/d	3	
Aldicarb sulfone	µg/L	n/d	n/d	n/d	2	
Aldicarb sulfoxide	µg/L	n/d	n/d	n/d	4	
Aldrin	µg/L	n/d	n/d	n/d		
Atrazine	µg/L	n/d	n/d	n/d	3	
Benzo(a)pyrene	µg/L	n/d	n/d	n/d	0.2	
Butachlor	µg/L	n/d	n/d	n/d		
Carbaryl	µg/L	n/d	n/d	n/d		
Carbofuran	µg/L	n/d	n/d	n/d	40	
Chlorinated biphenyls (PCBs)	µg/L	n/d	n/d	n/d	0.5	
Chlordane	µg/L	n/d	n/d	n/d	2	
Dalapon	µg/L	n/d	n/d	n/d	200	
Dibromochloropropane (DBCP)	µg/L	n/d	n/d	n/d	0.2	
Dicamba	µg/L	n/d	n/d	n/d		
Dieldrin	µg/L	n/d	n/d	n/d		
Di(2-ethylhexyl)adipate	µg/L	n/d	n/d	n/d	400	
Di(2-ethylhexyl)phthalate	µg/L	n/d	n/d	n/d	6	
Dinoseb	µg/L	n/d	n/d	n/d	7	
Diquat	µg/L	n/d	n/d	n/d	20	
1,2-Dibromoethane (EDB)	µg/L	n/d	n/d	n/d	0.05	
Endothall	µg/L	n/d	n/d	n/d	100	
Endrin	µg/L	n/d	n/d	n/d	2	
Glyphosate	µg/L	n/d	n/d	n/d	700	
Heptachlor	µg/L	n/d	n/d	n/d	0.4	
Heptachlor epoxide	µg/L	n/d	n/d	n/d	0.2	
Hexachlorobenzene	µg/L	n/d	n/d	n/d	1	
Hexachlorocyclopentadiene	µg/L	n/d	n/d	n/d	50	
Lindane	µg/L	n/d	n/d	n/d	0.2	
Metolachlor	µg/L	n/d	n/d	n/d		
Methomyl	µg/L	n/d	n/d	n/d		
Methoxychlor	µg/L	n/d	n/d	n/d	40	
Metribuzin	µg/L	n/d	n/d	n/d		
Oxamyl (vydate)	µg/L	n/d	n/d	n/d	200	
Pentachlorophenol (PCP)	µg/L	n/d	n/d	n/d	1	
Picloram	µg/L	n/d	n/d	n/d	500	
Propachlor	µg/L	n/d	n/d	n/d		
Simazine	µg/L	n/d	n/d	n/d	4	
Toxaphene	µg/L	n/d	n/d	n/d	3	
<u>VOLATILE ORGANIC CHEMICALS (VOCs)</u>						
1,1,1-Trichloroethane	µg/L	n/d	n/d	n/d	200	
1,1,2-Trichloroethane	µg/L	n/d	n/d	n/d	5	
1,1-Dichloroethene	µg/L	n/d	n/d	n/d	7	
1,2,4-Trichlorobenzene	µg/L	n/d	n/d	n/d	70	
1,2-Dichlorobenzene	µg/L	n/d	n/d	n/d	600	
1,2-Dichloroethane	µg/L	n/d	n/d	n/d	5	
1,2-Dichloropropane	µg/L	n/d	n/d	n/d	5	
1,4-Dichlorobenzene	µg/L	n/d	n/d	n/d	75	
Benzene	µg/L	n/d	n/d	n/d	5	
Carbon Tetrachloride	µg/L	n/d	n/d	n/d	5	
Chlorobenzene	µg/L	n/d	n/d	n/d	100	
<i>cis</i> -1,2-Dichloroethene	µg/L	n/d	n/d	n/d	70	
Dichloromethane	µg/L	n/d	n/d	n/d	5	
Ethylbenzene	µg/L	n/d	n/d	n/d	700	
Total Xylenes	µg/L	n/d	n/d	n/d	10000	
Styrene	µg/L	n/d	n/d	n/d	100	

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PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹
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VOLATILE ORGANIC CHEMICALS (VOCs)

Tetrachloroethene	µg/L	n/d	n/d	n/d	5
Toluene	µg/L	n/d	n/d	n/d	1000
<i>trans</i> -1,2-Dichloroethene	µg/L	n/d	n/d	n/d	100
Trichloroethene	µg/L	n/d	n/d	n/d	5
Vinyl Chloride	µg/L	n/d	n/d	n/d	2
1,1,1,2-Tetrachloroethane	µg/L	n/d	n/d	n/d	
1,1,2,2-Tetrachloroethane	µg/L	n/d	n/d	n/d	
1,1-Dichloroethane	µg/L	n/d	n/d	n/d	
1,1-Dichloropropene	µg/L	n/d	n/d	n/d	
1,2,3-Trichlorobenzene	µg/L	n/d	n/d	n/d	
1,2,3-Trichloropropane	µg/L	n/d	n/d	n/d	
1,2,4-Trimethylbenzene	µg/L	n/d	n/d	n/d	
1,3,5-Trimethylbenzene	µg/L	n/d	n/d	n/d	
1,3-Dichlorobenzene	µg/L	n/d	n/d	n/d	
1,3-Dichloropropane	µg/L	n/d	n/d	n/d	
2,2-Dichloropropane	µg/L	n/d	n/d	n/d	
2-Chlorotoluene	µg/L	n/d	n/d	n/d	
4-Chlorotoluene	µg/L	n/d	n/d	n/d	
Bromobenzene	µg/L	n/d	n/d	n/d	
Bromochloromethane	µg/L	n/d	n/d	n/d	
Bromomethane	µg/L	n/d	n/d	n/d	
Chloroethane	µg/L	n/d	n/d	n/d	
Chloromethane	µg/L	n/d	n/d	n/d	
<i>cis</i> -1,3-Dichloropropene	µg/L	n/d	n/d	n/d	
Dibromomethane	µg/L	n/d	n/d	n/d	
Dichlorodifluoromethane	µg/L	n/d	n/d	n/d	
Hexachlorobutadiene	µg/L	n/d	n/d	n/d	
Isopropylbenzene	µg/L	n/d	n/d	n/d	
n-Butylbenzene	µg/L	n/d	n/d	n/d	
n-Propylbenzene	µg/L	n/d	n/d	n/d	
Naphthalene	µg/L	n/d	n/d	n/d	
p-Isopropyltoluene	µg/L	n/d	n/d	n/d	
s-Butylbenzene	µg/L	n/d	n/d	n/d	
t-Butylbenzene	µg/L	n/d	n/d	n/d	
<i>trans</i> -1,3-Dichloropropene	µg/L	n/d	n/d	n/d	
Trichlorofluoromethane	µg/L	n/d	n/d	n/d	
Nitrobenzene	µg/L	n/d	n/d	n/d	
Methyl-tert-butyl-ether	µg/L	n/d	n/d	n/d	

RADIONUCLIDES

Gross Alpha	pCi/L	n/d	n/d	n/d	15
Gross Beta	pCi/L	<4	4.7	n/d	50 ²
Radium 228	pCi/L	n/d	n/d	n/d	5 ³
Tritium	pCi/L	n/d	n/d	n/d	

CUSTOMER TAP ⁴

PARAMETER	UNIT OF MEASURE	90th PERCENTILE ⁵	# of SITES ABOVE AL	EPA ACTION LEVEL (AL)
Copper	mg/L	0.10	0 of 55	1.3
Lead	µg/L	1.1	1 of 55	15

DISTRIBUTION SYSTEM

PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹
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BACTERIOLOGICAL

Samples Total Coliform Positive	%/month	0.22	0.88	0	5
Samples <i>E. coli</i> Positive	%/month	0	0	0	

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DISTRIBUTION SYSTEM					
PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹
<u>BACTERIOLOGICAL</u>					
No. of <i>E. coli</i> Positive Routine Samples	Count	0	0	0	
No. of <i>E. coli</i> Positive Repeat Samples	Count	0	0	0	0
<u>DISINFECTANT & DISINFECTION BYPRODUCTS</u>					
Residual Chlorine	mg/L	1.3	5.5	0.03 ⁷	4 ⁸
Haloacetic Acids (HAA5)	µg/L	53	72	19	60 ¹⁰
Total Trihalomethanes (TTHMs)	µg/L	66	94	20	80 ¹⁰

LEGENDS

n/d - not detected

mg/L - milligrams per liter, equal to parts per million (ppm). The equivalent of one minute in 2 years or one penny in \$10,000.

µg/L - micrograms per liter, equal to parts per billion (ppb). The equivalent of one minute in 2,000 years or one penny in \$10 million.

ng/L - nanograms per liter, equal to parts per trillion (ppt). The equivalent of one minute in 2,000,000 years or one penny in \$10 billion.

pg/L - picograms per liter, equal to parts per quadrillion (ppq). The equivalent of one minute in 2,000,000,000 years or one penny in \$10 trillion.

pCi/L - picocuries per liter (a measure of radiation)

S.U. - Standard Unit

NTU - Nephelometric Turbidity Unit

TT - Treatment Technique. A required process intended to reduce the level of a contaminant in drinking water.

AL - Action level. The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

= equals

< less than

¹ - Filtered water, maximum of measurements taken every 15 minutes.

² - EPA considers 50 pCi/L to be the level of concern for beta particles.

³ - The EPA limit of 5 pCi/L applies to combined Radium 226 and 228.

⁴ - Most recent required sampling, between June and September 2014.

⁵ - If more than 10% of sites exceed action level, system is required to take additional steps to control corrosiveness of their water.

⁶ - Highest running annual average (RAA)

⁷ - All samples deemed to have detectable disinfectant residual.

⁸ - Maximum residual disinfectant level (MRDL), the highest level of a disinfectant allowed in drinking water; based on RAA.

⁹ - Highest locational running annual average (LRAA)

¹⁰ - Maximum contaminant level based on LRAA.

¹¹ - Shown as maximum contaminant levels (MCL) unless otherwise noted as secondary MCLs (SMCL). MCLs are enforceable health-based standards, whereas SMCLs are non-enforceable guidelines for contaminants that may cause aesthetic effects in drinking water.

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POTOMAC WATER FILTRATION PLANT					
PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹
<u>GENERAL WATER QUALITY</u>					
Alkalinity	mg/L	71	108	33	
Color	Units	1	6	0	15 (SMCL)
Hardness	mg/L	125	204	52	
pH	S.U.	7.3	7.6	7.1	6.5-8.5 (SMCL)
Specific Conductance	MicroSiemens/cm	356	885	182	
Temperature	° C	14.7	28.7	0.9	
Threshold Odor	Units	1.0	1.0	1.0	3 (SMCL)
Turbidity ¹	NTU	0.02	0.13	0.01	TT=1 NTU; <0.3 NTU 95% of time
<u>METALS</u>					
Aluminum	µg/L	20	34	11	200 (SMCL)
Antimony	µg/L	n/d	n/d	n/d	6
Arsenic	µg/L	n/d	n/d	n/d	10
Barium	mg/L	0.03	0.04	0.02	2
Beryllium	µg/L	n/d	n/d	n/d	4
Cadmium	µg/L	n/d	n/d	n/d	5
Calcium	mg/L	38	53	24	
Total Chromium	µg/L	n/d	n/d	n/d	100
Copper	mg/L	0.002	0.002	0.002	
Iron	mg/L	n/d	n/d	n/d	0.3 (SMCL)
Lead	µg/L	n/d	n/d	n/d	
Magnesium	mg/L	7.9	13	4.7	
Manganese	µg/L	5.9	15	n/d	50 (SMCL)
Mercury	µg/L	n/d	n/d	n/d	2
Nickel	µg/L	<2	2.5	n/d	
Potassium	mg/L	3.2	4.7	2.1	
Selenium	µg/L	n/d	n/d	n/d	50
Silicon	mg/L	2.0	3.2	0.8	
Silver	µg/L	n/d	n/d	n/d	100 (SMCL)
Sodium	mg/L	16	32	10	
Thallium	µg/L	n/d	n/d	n/d	2
Zinc	µg/L	<2	5.0	n/d	5000 (SMCL)
<u>INORGANICS</u>					
Boron	mg/L	0.023	0.036	0.015	
Chloride	mg/L	40	72	26	250 (SMCL)
Residual Chlorine	mg/L	1.6	3.8	0.1	TT=>0.2
Fluoride	mg/L	0.7	0.9	0.6	4 (SMCL=2)
Nitrate	mg/L	1.7	2.5	1.2	10
Nitrite	mg/L	n/d	n/d	n/d	1
Phosphorus	mg/L	0.25	0.34	0.20	
Sulfate	mg/L	35	77	13	250 (SMCL)
<u>DISINFECTION BYPRODUCT PRECURSOR</u>					
Total Organic Carbon	mg/L	1.9	3.8	1.2	TT
<u>ORGANICS</u>					
Haloacetic Acids (HAA5)	µg/L	18	30	9.3	
Total Trihalomethanes (TTHMs)	µg/L	15	28	6.7	
<u>PESTICIDES & SYNTHETIC ORGANIC CHEMICALS (SOCs)</u>					
2,3,7,8-TCDD (Dioxin)	pg/L	n/d	n/d	n/d	30
2,4,5 TP (Silvex)	µg/L	n/d	n/d	n/d	50
2,4-D	µg/L	n/d	n/d	n/d	70
3-Hydroxycarbofuran	µg/L	n/d	n/d	n/d	
Alachlor	µg/L	n/d	n/d	n/d	2
Aldicarb	µg/L	n/d	n/d	n/d	3
Aldicarb sulfone	µg/L	n/d	n/d	n/d	2

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<u>PESTICIDES & SYNTHETIC ORGANIC CHEMICALS (SOCs)</u>					
Aldicarb sulfoxide	µg/L	n/d	n/d	n/d	4
Aldrin	µg/L	n/d	n/d	n/d	
Atrazine	µg/L	n/d	n/d	n/d	3
Benzo(a)pyrene	µg/L	n/d	n/d	n/d	0.2
Butachlor	µg/L	n/d	n/d	n/d	
Carbaryl	µg/L	n/d	n/d	n/d	
Carbofuran	µg/L	n/d	n/d	n/d	40
Chlorinated biphenyls (PCBs)	µg/L	n/d	n/d	n/d	0.5
Chlordane	µg/L	n/d	n/d	n/d	2
Dalapon	µg/L	n/d	n/d	n/d	200
Dibromochloropropane (DBCP)	µg/L	n/d	n/d	n/d	0.2
Dicamba	µg/L	n/d	n/d	n/d	
Dieldrin	µg/L	n/d	n/d	n/d	
Di(2-ethylhexyl)adipate	µg/L	n/d	n/d	n/d	400
Di(2-ethylhexyl)phthalate	µg/L	n/d	n/d	n/d	6
Dinoseb	µg/L	n/d	n/d	n/d	7
Diquat	µg/L	n/d	n/d	n/d	20
1,2-Dibromoethane (EDB)	µg/L	n/d	n/d	n/d	0.05
Endothall	µg/L	n/d	n/d	n/d	100
Endrin	µg/L	n/d	n/d	n/d	2
Glyphosate	µg/L	n/d	n/d	n/d	700
Heptachlor	µg/L	n/d	n/d	n/d	0.4
Heptachlor epoxide	µg/L	n/d	n/d	n/d	0.2
Hexachlorobenzene	µg/L	n/d	n/d	n/d	1
Hexachlorocyclopentadiene	µg/L	n/d	n/d	n/d	50
Lindane	µg/L	n/d	n/d	n/d	0.2
Metolachlor	µg/L	n/d	n/d	n/d	
Methomyl	µg/L	n/d	n/d	n/d	
Methoxychlor	µg/L	n/d	n/d	n/d	40
Metribuzin	µg/L	n/d	n/d	n/d	
Oxamyl (vydate)	µg/L	n/d	n/d	n/d	200
Pentachlorophenol (PCP)	µg/L	n/d	n/d	n/d	1
Picloram	µg/L	n/d	n/d	n/d	500
Propachlor	µg/L	n/d	n/d	n/d	
Simazine	µg/L	n/d	n/d	n/d	4
Toxaphene	µg/L	n/d	n/d	n/d	3
<u>VOLATILE ORGANIC CHEMICALS (VOCs)</u>					
1,1,1-Trichloroethane	µg/L	n/d	n/d	n/d	200
1,1,2-Trichloroethane	µg/L	n/d	n/d	n/d	5
1,1-Dichloroethene	µg/L	n/d	n/d	n/d	7
1,2,4-Trichlorobenzene	µg/L	n/d	n/d	n/d	70
1,2-Dichlorobenzene	µg/L	n/d	n/d	n/d	600
1,2-Dichloroethane	µg/L	n/d	n/d	n/d	5
1,2-Dichloropropane	µg/L	n/d	n/d	n/d	5
1,4-Dichlorobenzene	µg/L	n/d	n/d	n/d	75
Benzene	µg/L	n/d	n/d	n/d	5
Carbon Tetrachloride	µg/L	n/d	n/d	n/d	5
Chlorobenzene	µg/L	n/d	n/d	n/d	100
<i>cis</i> -1,2-Dichloroethene	µg/L	n/d	n/d	n/d	70
Dichloromethane	µg/L	n/d	n/d	n/d	5
Ethylbenzene	µg/L	n/d	n/d	n/d	700
Total Xylenes	µg/L	n/d	n/d	n/d	10000
Styrene	µg/L	n/d	n/d	n/d	100
Tetrachloroethene	µg/L	n/d	n/d	n/d	5
Toluene	µg/L	n/d	n/d	n/d	1000

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PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹

VOLATILE ORGANIC CHEMICALS (VOCs)

<i>trans</i> -1,2-Dichloroethene	µg/L	n/d	n/d	n/d	100
Trichloroethene	µg/L	n/d	n/d	n/d	5
Vinyl Chloride	µg/L	n/d	n/d	n/d	2
1,1,1,2-Tetrachloroethane	µg/L	n/d	n/d	n/d	
1,1,2,2-Tetrachloroethane	µg/L	n/d	n/d	n/d	
1,1-Dichloroethane	µg/L	n/d	n/d	n/d	
1,1-Dichloropropene	µg/L	n/d	n/d	n/d	
1,2,3-Trichlorobenzene	µg/L	n/d	n/d	n/d	
1,2,3-Trichloropropane	µg/L	n/d	n/d	n/d	
1,2,4-Trimethylbenzene	µg/L	n/d	n/d	n/d	
1,3,5-Trimethylbenzene	µg/L	n/d	n/d	n/d	
1,3-Dichlorobenzene	µg/L	n/d	n/d	n/d	
1,3-Dichloropropane	µg/L	n/d	n/d	n/d	
2,2-Dichloropropane	µg/L	n/d	n/d	n/d	
2-Chlorotoluene	µg/L	n/d	n/d	n/d	
4-Chlorotoluene	µg/L	n/d	n/d	n/d	
Bromobenzene	µg/L	n/d	n/d	n/d	
Bromochloromethane	µg/L	n/d	n/d	n/d	
Bromomethane	µg/L	n/d	n/d	n/d	
Chloroethane	µg/L	n/d	n/d	n/d	
Chloromethane	µg/L	n/d	n/d	n/d	
<i>cis</i> -1,3-Dichloropropene	µg/L	n/d	n/d	n/d	
Dibromomethane	µg/L	n/d	n/d	n/d	
Dichlorodifluoromethane	µg/L	n/d	n/d	n/d	
Hexachlorobutadiene	µg/L	n/d	n/d	n/d	
Isopropylbenzene	µg/L	n/d	n/d	n/d	
n-Butylbenzene	µg/L	n/d	n/d	n/d	
n-Propylbenzene	µg/L	n/d	n/d	n/d	
Naphthalene	µg/L	n/d	n/d	n/d	
p-Isopropyltoluene	µg/L	n/d	n/d	n/d	
s-Butylbenzene	µg/L	n/d	n/d	n/d	
t-Butylbenzene	µg/L	n/d	n/d	n/d	
<i>trans</i> -1,3-Dichloropropene	µg/L	n/d	n/d	n/d	
Trichlorofluoromethane	µg/L	n/d	n/d	n/d	
Nitrobenzene	µg/L	n/d	n/d	n/d	
Methyl-tert-butyl-ether	µg/L	n/d	n/d	n/d	

RADIONUCLIDES

Gross Alpha	pCi/L	n/d	n/d	n/d	15
Gross Beta	pCi/L	<4	6.5	n/d	50 ²
Radium 228	pCi/L	<1	1.1	n/d	5 ³
Tritium	pCi/L	n/d	n/d	n/d	

CUSTOMER TAP ⁴

PARAMETER	UNIT OF MEASURE	90th PERCENTILE ⁵	# of SITES ABOVE AL	EPA ACTION LEVEL (AL)
Copper	mg/L	0.10	0 of 55	1.3
Lead	µg/L	1.1	1 of 55	15

DISTRIBUTION SYSTEM

PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹
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BACTERIOLOGICAL

Samples Total Coliform Positive	%/month	0.22	0.88	0	5
Samples <i>E. coli</i> Positive	%/month	0	0	0	

WSSC TAP WATER ANALYSIS - 2018

DISTRIBUTION SYSTEM					
PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT ¹¹
<u>BACTERIOLOGICAL</u>					
No. of <i>E. coli</i> Positive Routine Samples	Count	0	0	0	
No. of <i>E. coli</i> Positive Repeat Samples	Count	0	0	0	0
<u>DISINFECTANT & DISINFECTION BYPRODUCTS</u>					
Residual Chlorine	mg/L	1.3	5.5	0.03 ⁷	4 ⁸
Haloacetic Acids (HAA5)	µg/L	53	72	19	60 ¹⁰
Total Trihalomethanes (TTHMs)	µg/L	66	94	20	80 ¹⁰

LEGENDS

n/d - not detected

mg/L - milligrams per liter, equal to parts per million (ppm). The equivalent of one minute in 2 years or one penny in \$10,000.

µg/L - micrograms per liter, equal to parts per billion (ppb). The equivalent of one minute in 2,000 years or one penny in \$10 million.

ng/L - nanograms per liter, equal to parts per trillion (ppt). The equivalent of one minute in 2,000,000 years or one penny in \$10 billion.

pg/L - picograms per liter, equal to parts per quadrillion (ppq). The equivalent of one minute in 2,000,000,000 years or one penny in \$10 trillion.

pCi/L - picocuries per liter (a measure of radiation)

S.U. - Standard Unit

NTU - Nephelometric Turbidity Unit

TT - Treatment Technique. A required process intended to reduce the level of a contaminant in drinking water.

AL - Action level. The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

= equals

< less than

¹ - Filtered water, maximum of measurements taken every 15 minutes.

² - EPA considers 50 pCi/L to be the level of concern for beta particles.

³ - The EPA limit of 5 pCi/L applies to combined Radium 226 and 228.

⁴ - Most recent required sampling, between June and September 2014.

⁵ - If more than 10% of sites exceed action level, system is required to take additional steps to control corrosiveness of their water.

⁶ - Highest running annual average (RAA)

⁷ - All samples deemed to have detectable disinfectant residual.

⁸ - Maximum residual disinfectant level (MRDL), the highest level of a disinfectant allowed in drinking water; based on RAA.

⁹ - Highest locational running annual average (LRAA)

¹⁰ - Maximum contaminant level based on LRAA.

¹¹ - Shown as maximum contaminant levels (MCL) unless otherwise noted as secondary MCLs (SMCL). MCLs are enforceable health-based standards, whereas SMCLs are non-enforceable guidelines for contaminants that may cause aesthetic effects in drinking water.