

## WSSC TAP WATER ANALYSIS - 2009

POTOMAC WATER FILTRATION PLANT					
PARAMETER	UNIT OF MEASURE	YEARLY AVERAGE	MAXIMUM	MINIMUM	EPA LIMIT
<b><u>GENERAL WATER QUALITY</u></b>					
Alkalinity	mg/L	78	108	40	
Color	Units	0	2	0	
Hardness	mg/L	128	176	81	
pH	S.U.	7.4	7.6	7.1	
Specific Conductance	MicroSiemens/cm	372	531	261	
Temperature	° C	15.4	29.8	0.4	
Threshold Odor	Units	1.0	1.0	0.0	
Turbidity <sup>1</sup>	NTU	0.03	0.19	0.01	TT=1 NTU; <0.3 NTU 95% of time
<b><u>METALS</u></b>					
Aluminum	µg/L	37	200	14	
Antimony	µg/L	<2	<2	n/d	6
Arsenic	µg/L	<2	2	n/d	10
Barium	µg/L	33	44	24	2000
Beryllium	µg/L	n/d	<2	n/d	4
Cadmium	µg/L	n/d	<2	n/d	5
Calcium	mg/L	38.4	51.3	23.9	
Chromium	µg/L	<2	2	n/d	100
Copper	µg/L	2	2	<2	
Iron	mg/L	<0.2	0.5	n/d	
Lead	µg/L	<2	<2	n/d	
Magnesium	mg/L	8.9	13.3	5.0	
Manganese	µg/L	2	8	n/d	
Mercury	µg/L	n/d	n/d	n/d	2
Nickel	µg/L	2	2	<2	
Potassium	mg/L	3.0	4.7	2.0	
Selenium	µg/L	<2	2	n/d	50
Silicon	mg/L	2.6	4.1	0.6	
Silver	µg/L	n/d	<2	n/d	
Sodium	mg/L	20.0	47.0	11.8	
Thallium	µg/L	<1	1	n/d	2
Zinc	µg/L	2	3	<2	
<b><u>INORGANICS</u></b>					
Boron	mg/L	0.02	0.03	0.01	
Chloride	mg/L	42.0	77.0	26.4	
Residual Chlorine	mg/L	2.1	3.2	1.4	TT=>0.2
Fluoride	mg/L	0.87	1.24	0.42	4
Nitrate	mg/L	1.64	2.80	0.87	10
Nitrite	mg/L	n/d	<0.05	n/d	1
Phosphorus	mg/L	0.28	0.34	<0.20	
Sulfate	mg/L	40.5	78.3	16.5	
<b><u>DISINFECTION BYPRODUCT PRECURSOR</u></b>					
Total Organic Carbon	mg/L	2.0	7.7	1.1	TT
<b><u>ORGANICS</u></b>					
Haloacetic Acids (HAA5)	µg/L	14.8	29.5	5.1	
Total Trihalomethanes (TTHMs)	µg/L	12.3	24.7	3.4	
<b><u>PESTICIDES &amp; SYNTHETIC ORGANIC CHEMICALS (SOCs)</u></b>					
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
Aldicarb sulfoxide	µg/L	n/d	n/d	n/d	4

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<b>PARAMETER</b>	<b>UNIT OF MEASURE</b>	<b>YEARLY AVERAGE</b>	<b>MAXIMUM</b>	<b>MINIMUM</b>	<b>EPA LIMIT</b>
<b><u>PESTICIDES &amp; SYNTHETIC ORGANIC CHEMICALS (SOCs)</u></b>					
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	<1	<1	n/d	200
Dibromochloropropane (DBCP)	µg/L	0.02	0.09	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	<2	<2	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	<1	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	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
<b><u>VOLATILE ORGANIC CHEMICALS (VOCs)</u></b>					
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
cis -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
trans -1,2-Dichloroethene	µg/L	n/d	n/d	n/d	100

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**VOLATILE ORGANIC CHEMICALS (VOCs)**

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	<0.5	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	<10	n/d	
Methyl-tert-butyl-ether	µg/L	n/d	n/d	n/d	

**RADIONUCLIDES**

Gross Alpha	pCi/L	<1.0	<1.0	<0.7	15
Gross Beta	pCi/L	2.5	4.2	1.6	50 <sup>2</sup>
Radium 228	pCi/L	<1.0	<1.0	<1.0	5 <sup>3</sup>
Tritium	pCi/L	<100	<100	<100	

<b>CUSTOMER TAP<sup>4</sup></b>				
<b>PARAMETER</b>	<b>UNIT OF MEASURE</b>	<b>90th PERCENTILE<sup>5</sup></b>	<b># of SITES ABOVE AL</b>	<b>EPA ACTION LEVEL (AL)</b>

Copper	µg/L	122	0 sample	1300
Lead	µg/L	2.5	1 sample	15

<b>DISTRIBUTION SYSTEM</b>					
<b>PARAMETER</b>	<b>UNIT OF MEASURE</b>	<b>YEARLY AVERAGE</b>	<b>MAXIMUM</b>	<b>MINIMUM</b>	<b>EPA LIMIT</b>

**BACTERIOLOGICAL**

Samples Total Coliform Positive	%/month	0.07	0.52	0	5
Samples <i>E. coli</i> Positive	%/month	0	0	0	
No.of <i>E. coli</i> Positive Routine Samples	Count	0	0	0	

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<b>DISTRIBUTION SYSTEM</b>					
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<b><u>BACTERIOLOGICAL</u></b>					
No. of <i>E. coli</i> Positive Repeat Samples	Count	0	0	0	0
<b><u>DISINFECTANT &amp; DISINFECTION BYPRODUCTS</u></b>					
Residual Chlorine	mg/L	1.32 <sup>6</sup>	4.30	n/d	4 <sup>7</sup>
Haloacetic Acids (HAA5)	µg/L	33.2 <sup>6</sup>	85.6	9.79	60 <sup>8</sup>
Total Trihalomethanes (TTHMs)	µg/L	41.4 <sup>6</sup>	97.6	8.72	80 <sup>8</sup>

### **LEGENDS**

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.

n/d - not detected

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.

<sup>1</sup> - Filtered water.

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

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

<sup>4</sup> - Most recent sampling, between June and September 2008.

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

<sup>6</sup> - Highest running annual average (RAA)

<sup>7</sup> - Maximum residual disinfectant level (MRDL), the highest level of a disinfectant allowed in drinking water; based on RAA.

<sup>8</sup> - Based on running annual average

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<b><u>GENERAL WATER QUALITY</u></b>					
Alkalinity	mg/L	34	45	29	
Color	Units	0	3	0	
Hardness	mg/L	62	88	36	
pH	S.U.	7.4	8.0	7.1	
Specific Conductance	MicroSiemens/cm	205	320	174	
Temperature	° C	15.0	26.7	3.8	
Threshold Odor	Units	1.0	2.3	1.0	
Turbidity <sup>1</sup>	NTU	0.03	0.13	0.02	TT=1 NTU; <0.3 NTU 95% of time
Geosmin	ng/L	4.5	9.0	1.4	
2-Methylisoborneol	ng/L	2.2	8.4	n/d	
<b><u>METALS</u></b>					
Aluminum	µg/L	26	214	9	
Antimony	µg/L	<2	<2	n/d	6
Arsenic	µg/L	<2	2	n/d	10
Barium	µg/L	26	33	19	2000
Beryllium	µg/L	n/d	<2	n/d	4
Cadmium	µg/L	n/d	<2	n/d	5
Calcium	mg/L	17.9	27.6	13.3	
Chromium	µg/L	<2	2	n/d	100
Copper	µg/L	12	17	7	
Iron	mg/L	<0.2	0.5	n/d	
Lead	µg/L	n/d	<2	n/d	
Magnesium	mg/L	4.8	7.2	4.0	
Manganese	µg/L	3	66	n/d	
Mercury	µg/L	n/d	n/d	n/d	2
Nickel	µg/L	<2	2	n/d	
Potassium	mg/L	2.6	3.1	2.3	
Selenium	µg/L	<2	2	n/d	50
Silicon	mg/L	1.9	3.2	0.7	
Silver	µg/L	<2	<2	n/d	
Sodium	mg/L	12.9	19.1	9.1	
Thallium	µg/L	<1	1	n/d	2
Zinc	µg/L	2	5	<2	
<b><u>INORGANICS</u></b>					
Boron	mg/L	0.01	0.02	<0.01	
Chloride	mg/L	33.2	43.6	21.3	
Residual Chlorine	mg/L	1.9	2.6	0.6	TT=>0.2
Fluoride	mg/L	1.01	1.63	0.65	4
Nitrate	mg/L	1.07	1.60	0.47	10
Nitrite	mg/L	<0.05	<0.05	n/d	1
Phosphorus	mg/L	0.33	0.44	<0.20	
Sulfate	mg/L	7.0	13.9	4.8	
<b><u>DISINFECTION BYPRODUCT PRECURSOR</u></b>					
Total Organic Carbon	mg/L	1.9	5.7	1.0	TT
<b><u>ORGANICS</u></b>					
Haloacetic Acids (HAA5)	µg/L	22.1	47.7	9.0	
Total Trihalomethanes (TTHMs)	µg/L	22.9	39.3	5.9	
<b><u>PESTICIDES &amp; SYNTHETIC ORGANIC CHEMICALS (SOCs)</u></b>					
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	<0.1	0.15	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

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<b>PESTICIDES &amp; SYNTHETIC ORGANIC CHEMICALS (SOCs)</b>					
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	<1	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	<1	<1	n/d	200
Dibromochloropropane (DBCP)	µg/L	0.02	0.06	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	<2	<2	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	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
<b>VOLATILE ORGANIC CHEMICALS (VOCs)</b>					
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
cis -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	<0.5	n/d	10000
Styrene	µg/L	n/d	n/d	n/d	100
Tetrachloroethene	µg/L	n/d	n/d	n/d	5

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**VOLATILE ORGANIC CHEMICALS (VOCs)**

Toluene	µg/L	n/d	<0.5	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	<0.5	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	<10	n/d	
Methyl-tert-butyl-ether	µg/L	n/d	n/d	n/d	

**RADIONUCLIDES**

Gross Alpha	pCi/L	<1.0	<1.0	<0.7	15
Gross Beta	pCi/L	<2.0	2.2	<1.5	50 <sup>2</sup>
Radium 228	pCi/L	<1.0	<1.0	<0.7	5 <sup>3</sup>
Tritium	pCi/L	<100	<100	<100	

**CUSTOMER TAP<sup>4</sup>**

<b>PARAMETER</b>	<b>UNIT OF MEASURE</b>	<b>90th PERCENTILE<sup>5</sup></b>	<b># of SITES ABOVE AL</b>	<b>EPA ACTION LEVEL (AL)</b>
Copper	µg/L	122	0 sample	1300
Lead	µg/L	2.5	1 sample	15

**DISTRIBUTION SYSTEM**

<b>PARAMETER</b>	<b>UNIT OF MEASURE</b>	<b>YEARLY AVERAGE</b>	<b>MAXIMUM</b>	<b>MINIMUM</b>	<b>EPA LIMIT</b>
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**BACTERIOLOGICAL**

Samples Total Coliform Positive	%/month	0.07	0.52	0	5
Samples <i>E. coli</i> Positive	%/month	0	0	0	
No. of <i>E. coli</i> Positive Routine Samples	Count	0	0	0	

## WSSC TAP WATER ANALYSIS - 2009

<b>DISTRIBUTION SYSTEM</b>					
<b>PARAMETER</b>	<b>UNIT OF MEASURE</b>	<b>YEARLY AVERAGE</b>	<b>MAXIMUM</b>	<b>MINIMUM</b>	<b>EPA LIMIT</b>
<b><u>BACTERIOLOGICAL</u></b>					
No. of <i>E. coli</i> Positive Repeat Samples	Count	0	0	0	0
<b><u>DISINFECTANT &amp; DISINFECTION BYPRODUCTS</u></b>					
Residual Chlorine	mg/L	1.32 <sup>6</sup>	4.30	n/d	4 <sup>7</sup>
Haloacetic Acids (HAA5)	µg/L	33.2 <sup>6</sup>	85.6	9.79	60 <sup>8</sup>
Total Trihalomethanes (TTHMs)	µg/L	41.4 <sup>6</sup>	97.6	8.72	80 <sup>8</sup>

### **LEGENDS**

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.

n/d - not detected

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.

<sup>1</sup> - Filtered water.

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

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

<sup>4</sup> - Most recent sampling, between June and September 2008.

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

<sup>6</sup> - Highest running annual average (RAA)

<sup>7</sup> - Maximum residual disinfectant level (MRDL), the highest level of a disinfectant allowed in drinking water; based on RAA.

<sup>8</sup> - Based on running annual average