



## **Washington Aqueduct**

## **U.S. ARMY Corps of Engineers**

# **Annual Report of Water Analysis 2023**

Prepared by:

Water Quality Laboratory  
Plant Operations Branch  
Washington Aqueduct  
5900 MacArthur Boulevard, NW  
Washington, D.C. 20016-2514





# WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS

## ANNUAL REPORT OF WATER ANALYSIS (2023)

### Potomac River Raw Water Supply

	Miscellaneous Physical Parameters										Inorganic Ions									Microorganisms			
	pH	ALKALINITY	CONDUCTIVITY	DISSOLVED SOLIDS	SUSPENDED SOLIDS	TOTAL SOLIDS	TEMPERATURE	TOTAL HARDNESS	TOTAL ORGANIC CARBON	TURBIDITY	TOTAL AMMONIA - N	BROMIDE	CHLORIDE	FLUORIDE	NITRATE - N	NITRITE - N	ORTHOPHOSPHATE - PO4	PERCHLORATE	SULFATE	TOTAL COLIFORM	E. COLI	GIARDIA	CRYPTOSPORIDIUM
		ppm	µS/cm	ppm	ppm	ppm	°F	ppm	ppm	NTU	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	MPN/100mL	MPN/100mL	cysts/L	Oocysts/L
Jan	7.9	97	312	179	4	183	43	142	2.4	5	ND	ND	32	0.24	2.1	ND	ND	0.3	23	2496	40	1.40	ND
Feb	8.0	98	368	193	5	198	46	113	2.5	6	ND	ND	30	0.18	1.8	ND	ND	0.3	26	1031	23	---	---
Mar	7.9	86	298	197	15	212	49	133	2.8	7	---	ND	25	0.21	1.6	ND	ND	0.3	23	1174	53	---	---
Apr	7.9	104	308	165	2	167	63	145	2.4	3	---	ND	28	0.18	0.9	ND	ND	0.3	24	780	24	ND	ND
May	7.9	91	305	187	20	207	66	118	3.7	5	ND	ND	20	0.17	0.8	ND	ND	ND	28	4461	295	---	---
Jun	8.3	114	405	225	3	228	75	140	3.1	3	ND	0.04	29	0.22	0.3	ND	ND	0.2	37	1810	21	---	---
Jul	8.4	115	369	200	3	203	84	131	3.3	3	0.07	ND	28	0.15	0.2	ND	ND	0.3	31	37607	21	ND	ND
Aug	8.5	104	313	223	5	228	82	127	3.2	4	0.06	0.04	28	0.29	ND	ND	ND	ND	37	9414	146	---	---
Sep	8.3	103	373	218	3	221	75	135	3.8	3	ND	0.05	38	0.21	0.3	ND	ND	ND	45	2791	22	---	---
Oct	8.4	116	402	229	ND	229	65	155	2.7	3	ND	0.05	35	0.24	ND	ND	ND	ND	48	1485	9	1.36	ND
Nov	8.2	125	415	270	2	272	51	182	5.6	3	ND	0.05	37	0.18	0.6	ND	ND	0.2	50	1713	21	---	---
Dec	7.9	80	308	203	11	214	45	133	5.9	9	ND	ND	43	0.12	1.5	ND	ND	0.3	23	12030	535	---	---

	Metals																								
	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	LITHIUM	MAGNESIUM	MANGANESE	MOLYBDENUM	NICKEL	SELENIUM	SILVER	SODIUM	STRONTIUM	THALLIUM	THORIUM	URANIUM	ZINC
	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb
Jan	256	ND	ND	41	ND	ND	38	ND	0.3	3.9	397	0.7	1.8	11	38	ND	2.2	ND	ND	16	158	ND	ND	0.2	4.7
Feb	171	ND	ND	35	ND	ND	32	ND	ND	2.5	235	0.4	1.7	8	25	ND	0.8	ND	ND	15	146	ND	ND	0.2	2.2
Mar	134	ND	ND	35	ND	ND	36	ND	ND	1.2	229	0.3	2.1	10	37	ND	0.8	ND	ND	12	153	ND	ND	0.2	1.8
Apr	147	ND	ND	38	ND	ND	42	ND	0.3	1.6	204	0.4	2.0	10	32	ND	1.0	ND	ND	13	150	ND	ND	0.3	2.4
May	719	ND	0.6	41	ND	ND	34	ND	1.0	2.3	1178	1.4	2.8	8	101	ND	2.1	ND	ND	11	110	ND	ND	ND	6.0
Jun	89	ND	ND	40	ND	ND	41	ND	0.2	1.4	133	0.3	3.2	9	29	ND	1.2	ND	ND	16	204	ND	ND	0.2	1.4
Jul	84	ND	1.1	40	ND	ND	37	ND	0.2	1.8	97	ND	2.6	10	29	0.6	1.0	ND	ND	15	219	ND	ND	0.3	1.9
Aug	106	ND	1.0	39	ND	ND	36	ND	ND	2.5	55	ND	3.2	9	20	1.0	1.2	ND	ND	16	235	ND	ND	0.3	2.0
Sep	97	ND	1.0	41	ND	ND	37	ND	0.2	1.9	146	1.4	4.2	10	32	1.0	1.1	ND	ND	19	258	ND	ND	0.3	4.3
Oct	174	ND	0.6	45	ND	ND	46	ND	ND	2.8	184	0.7	3.4	10	27	1.0	1.2	ND	ND	20	250	ND	ND	0.3	4.0
Nov	100	ND	ND	47	ND	ND	54	ND	ND	1.2	69	ND	3.9	11	18	0.7	0.8	ND	ND	19	293	ND	ND	0.3	1.3
Dec	225	ND	ND	40	ND	ND	42	ND	ND	1.4	129	ND	2.4	7	39	ND	0.8	ND	ND	15	231	ND	ND	0.3	1.7

ppm = Parts Per Million

ppb = Parts Per Billion

ND = Not Detected

MPN/100mL = Most Probable Number per 100 milliliters

NTU = Nephelometric Turbidity Units

µS/cm = microSiemens per centimeter

"---" = No Analysis Required



WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS  
ANNUAL REPORT OF WATER ANALYSIS (2023)

EPA MCL*	Inorganic Ions									Metals																													
	TOTAL AMMONIA - N	BROMIDE	CHLORIDE	FLUORIDE	NITRATE - N	NITRITE - N	ORTHOPHOSPHATE - PO4	PERCHLORATE	SULFATE	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	CADMIUM	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	LITHIUM	MAGNESIUM	MANGANESE	MERCURY	MOLYBDENUM	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	STRONTIUM	THALLIUM	THORIUM	URANIUM	VANADIUM	ZINC		
	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	
Units				4	10	1					6	10	2000	4	5		100								2					50					2		30		
Dalecarlia Water Treatment Plant Finished Water																																							
Jan	0.8	ND	35	0.6	2.1	ND	2.7	0.3	35	23	ND	ND	35	ND	ND	37	ND	ND	0.9	ND	ND	1.3	10	0.5	ND	ND	0.6	2.8	ND	ND	22	147	ND	ND	ND	ND	0.5		
Feb	0.7	ND	34	0.6	1.8	ND	2.6	0.3	37	18	ND	ND	27	ND	ND	34	ND	ND	0.9	ND	ND	1.4	8	0.4	ND	ND	ND	---	ND	ND	21	135	ND	ND	ND	ND	ND		
Mar	ND	ND	27	0.7	1.6	ND	2.4	0.3	35	20	ND	ND	30	ND	ND	34	ND	ND	0.8	ND	ND	1.7	9	0.3	ND	ND	ND	---	ND	ND	20	157	ND	ND	ND	ND	ND		
Apr	ND	ND	30	0.6	1.0	ND	2.6	0.3	37	25	ND	0.2	35	ND	ND	41	ND	ND	0.9	ND	ND	2.3	10	ND	ND	ND	0.5	2.5	ND	ND	18	144	ND	ND	ND	ND	0.6		
May	0.5	ND	25	0.7	0.8	ND	2.6	ND	37	23	ND	0.2	31	ND	ND	29	ND	ND	1.3	ND	ND	2.1	9	0.9	ND	ND	0.7	---	ND	ND	18	120	ND	ND	ND	ND	0.5		
Jun	0.8	ND	33	0.7	0.3	ND	2.5	0.2	49	47	ND	0.3	38	ND	ND	41	ND	ND	0.6	ND	ND	2.6	9	1.1	ND	ND	ND	---	ND	ND	21	185	ND	ND	ND	ND	ND		
Jul	0.9	ND	32	0.7	0.3	ND	2.6	0.8	50	76	ND	0.4	38	ND	ND	39	ND	ND	0.8	ND	ND	2.5	9	0.8	ND	0.6	ND	3.3	ND	ND	21	212	ND	ND	ND	0.8	0.8		
Aug	0.8	ND	34	0.7	ND	ND	2.5	0.2	56	44	ND	0.4	38	ND	ND	38	ND	ND	0.8	ND	ND	2.7	9	1.1	ND	0.7	0.6	---	ND	ND	25	206	ND	ND	ND	0.7	ND		
Sep	0.9	ND	36	0.7	ND	ND	2.5	ND	59	51	ND	0.4	40	ND	ND	35	ND	ND	1.2	ND	ND	3.6	11	0.7	ND	0.9	0.8	---	ND	ND	28	230	ND	ND	ND	0.8	0.8		
Oct	0.9	ND	34	0.7	0.2	ND	2.5	0.3	58	43	ND	0.3	41	ND	ND	48	ND	ND	1.1	ND	ND	2.9	9	0.6	ND	1.0	0.7	3.4	ND	ND	26	250	ND	ND	ND	0.6	ND		
Nov	0.8	ND	37	0.6	0.5	ND	2.6	ND	65	50	ND	0.2	42	ND	ND	55	ND	ND	1.1	ND	ND	3.2	10	0.7	ND	0.8	0.7	---	ND	ND	28	266	ND	ND	ND	ND	0.5		
Dec	0.8	ND	29	0.6	1.1	ND	2.6	0.3	41	15	ND	ND	33	ND	ND	35	ND	ND	1.2	ND	ND	2.2	8	0.7	ND	ND	0.7	---	ND	ND	21	193	ND	ND	ND	ND	0.7		
McMillan Water Treatment Plant Finished Water																																							
Jan	0.8	ND	33	0.7	2.1	ND	2.7	0.3	35	24	ND	ND	32	ND	ND	28	ND	ND	3.9	ND	ND	1.5	9	0.3	ND	ND	ND	2.9	ND	ND	19	123	ND	ND	ND	ND	ND		
Feb	0.7	ND	35	0.6	1.9	ND	2.6	0.3	36	14	ND	ND	31	ND	ND	30	ND	ND	2.8	ND	ND	1.6	7	ND	ND	ND	ND	---	ND	ND	19	152	ND	ND	ND	ND	ND		
Mar	ND	ND	28	0.7	1.5	ND	2.5	0.3	37	16	ND	ND	32	ND	ND	26	ND	ND	2.5	ND	ND	1.8	7	ND	ND	ND	0.5	---	ND	ND	15	147	ND	ND	ND	ND	ND		
Apr	ND	ND	29	0.7	0.9	ND	2.5	0.3	37	33	ND	ND	35	ND	ND	35	ND	ND	2.6	ND	ND	2.1	8	ND	ND	ND	0.5	2.4	ND	ND	17	139	ND	ND	ND	ND	ND		
May	0.5	ND	26	0.7	0.8	ND	2.5	ND	39	37	ND	ND	38	ND	ND	26	ND	ND	5.7	ND	ND	1.8	7	0.3	ND	ND	ND	---	ND	ND	16	173	ND	ND	ND	ND	ND		
Jun	0.8	ND	33	0.7	0.3	ND	2.4	ND	48	98	ND	ND	35	ND	ND	34	ND	ND	8.4	ND	ND	2.0	9	0.5	ND	ND	ND	---	ND	ND	18	167	ND	ND	ND	ND	ND		
Jul	0.8	ND	34	0.8	0.3	ND	2.5	ND	47	58	ND	0.2	42	ND	ND	37	ND	ND	7.3	ND	ND	2.7	7	0.4	ND	0.6	ND	3.1	ND	ND	21	215	ND	ND	ND	ND	ND		
Aug	0.9	ND	35	0.7	ND	ND	2.4	0.2	54	57	ND	0.4	38	ND	ND	35	ND	ND	7.0	ND	ND	2.4	7	0.2	ND	0.7	ND	---	ND	ND	21	213	ND	ND	ND	0.5	ND		
Sep	0.9	ND	37	0.6	ND	ND	2.4	ND	62	42	ND	0.4	39	ND	ND	36	ND	ND	8.8	ND	ND	3.2	10	0.2	ND	0.9	ND	---	ND	ND	24	233	ND	ND	ND	0.5	ND		
Oct	0.9	ND	36	0.7	ND	ND	2.4	0.2	60	38	ND	0.3	37	ND	ND	39	ND	ND	10.5	12	ND	2.9	10	ND	ND	0.7	0.7	3.3	ND	ND	21	214	ND	ND	ND	0.5	ND		
Nov	0.9	ND	39	0.7	0.4	ND	2.5	0.3	65	54	ND	ND	39	ND	ND	48	ND	ND	16.2	ND	ND	3.1	9	ND	ND	0.8	0.7	---	ND	ND	24	247	ND	ND	ND	ND	ND		
Dec	0.8	ND	31	0.6	1.0	ND	2.4	0.2	50	25	ND	ND	38	ND	ND	34	ND	ND	6.0	ND	ND	2.8	8	0.4	ND	0.5	0.8	---	ND	ND	20	212	ND	ND	ND	ND	0.7		



EPA MCL\* = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters      ppm = Parts Per Million      ppb = Parts Per Billion      ND = Not Detected      "----" = No Analysis Required

Turbidity\* = Water turbidity after filters      CFU/mL = Colony Forming Units per milliliter      NTU = Nephelometric Turbidity Units      µS/cm = microSiemens per centimeter

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EPA MCL\* = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters
 ppb = Parts Per Billion
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EPA MCL*	Synthetic Organic Compounds																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
	ACENAPHTHENE	ACENAPHTHYLENE	ACETOCHLOR	ACIFLOURFEN	ALACHLOR	ALDICARB	ALDICARB SULFONE	ALDICARB SULFOXIDE	ALDRIN	ANTHRACENE	AROCHLOR 1016 (PCBs)	AROCHLOR 1221 (PCBs)	AROCHLOR 1232 (PCBs)	AROCHLOR 1242 (PCBs)	AROCHLOR 1248 (PCBs)	AROCHLOR 1254 (PCBs)	AROCHLOR 1260 (PCBs)	TOTAL PCBs	ATRAZINE	BAYGON	BENTAZON	BENZ(a)ANTHRACENE	BENZO(b)FLUORANTHENE	BENZO(g,h,i)PERYLENE	BENZO(a)PYRENE	BENZO(K)FLUORATHENE	alpha-BHC	beta-BHC	delta-BHC	BROMACIL	BUTACHLOR	BUTYLBENZYLPHTHALATE	CAFFEINE	CARBARYL	CARBOFURAN	alpha-CHLORDANE	gamma-CHLORDANE	CHLORDANE	CHLORPYRIFOS (DURSBAN)	CHLOROBENZILATE	CHLORONEB	CHLOROTHALONIL	CHRYSENE	2,4-D	DALAPON																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
	ppb	ppb	ppb	ppb	2	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	0.5	3	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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EPA MCL*	Synthetic Organic Compounds																																																					
	2,4-DB	DCPA MONO & DIACID DEGRADATE	2,4'-DDD	2,4'-DDE	2,4'-DDT	4,4'-DDD	4,4'-DDE	4,4'-DDT	DIBENZ(a,h)ANTHRACENE	DICAMBA	3,5-DICHLOROBENZOIC ACID	DICHLORPROP	DICHLORVOS (DDVP)	DIELDRIN	DIETHYLPHTHALATE	di-(2-ETHYLHEXYL)ADIPATE	di-(2-ETHYLHEXYL)PHTHALATE	DIMETHOATE	DIMETHYLPHTHALATE	DI-N-BUTYLPHTHALATE	DI-N-OCTYLPHTHALATE	2,4-DINITROTOLUENE	2,6-DINITROTOLUENE	DINOSEB	DIQUAT	ENDOTHALL	ENDRIN	ENDRIN ALDEHYDE	EPTC	FLUORANTHENE	FLUORENE	GLYPHOSATE	HEPTACHLOR	HEPTACHLOR EPOXIDE	HEXACHLOROBENZENE	HEXACHLOROCYCLOPENTADIENE	3-HYDROXYCARBOFURAN	INDENO(1,2,3,c,g)PYRENE	ISOPHORONE	LINDANE	ENDOSULFAN I (alpha)	ENDOSULFAN II (beta)	ENDOSULFAN SULFATE	MALATHION	METHIOCARB									
																400	6								7	20	100	2							700	0.4	0.2	1	50				0.2											
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb						
Dalecarlia Water Treatment Plant Finished Water																																																						
Jan	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND						
Feb	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---					
Mar	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---				
Apr	---	---	ND	ND	ND	ND	ND	ND	ND	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
May	ND	---	---	---	---	---	---	---	---	ND	ND	ND	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
Jun	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
Jul	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
Aug	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Sep	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Oct	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Nov	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
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McMillan Water Treatment Plant Finished Water																																																						
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EPA MCL\* = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters

ppm = Parts Per Million (mg/L)      ppb = Parts Per Billion (µg/L)      ppt = Parts Per Trillion (ng/L)      ppq = Parts Per Quadrillion (pg/L)

\* The MCL for beta and photon emitters is 4 mrem/year and EPA considers 50 pCi/L to be the level of concern for beta/photon emitters.

ppb = Picocuries Per Liter  
ND = Not Detected

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