



US Army Corps  
of Engineers  
Baltimore District



**Washington Aqueduct**

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

# **Annual Report of Water Analysis 2017**

Prepared by:

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

April 25, 2018  
Approved by the Chief, Washington Aqueduct





# WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2017)

## 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 <i>Great Falls Intake</i>	CRYPTOSPORIDIUM <i>Great Falls Intake</i>	GIARDIA <i>Little Falls Intake</i>	CRYPTOSPORIDIUM <i>Little Falls Intake</i>
	ppm	uS/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	cysts/L	Oocysts/L	
Jan	7.7	65	335	171	4	175	45	119	3.0	14	ND	0.07	37	ND	1.6	ND	ND	0.4	32	9946	223	0.84	0.09	0.88	0.10
Feb	7.7	68	296	197	22	219	48	110	2.4	8	ND	0.05	29	ND	1.8	ND	ND	0.3	32	2234	20	0.56	0.19	0.37	ND
Mar	8.0	69	322	194	4	198	53	113	2.5	6	ND	ND	33	ND	1.3	ND	ND	0.3	27	3952	116	0.29	ND	0.57	ND
Apr	7.6	66	271	142	29	171	61	100	3.4	15	ND	ND	26	ND	1.3	ND	ND	0.3	23	1733	52	ND	ND	0.67	ND
May	7.7	65	242	134	41	175	64	97	3.6	16	ND	ND	18	ND	1.2	ND	ND	ND	22	7620	123	0.14	0.28	1.02	0.09
Jun	8.0	90	318	182	5	187	76	129	2.6	6	ND	ND	26	ND	1.3	ND	ND	0.3	31	21172	1934	ND	ND	0.09	ND
Jul	7.9	99	364	224	ND	224	82	142	3.5	5	ND	ND	29	0.12	1.4	ND	ND	0.4	35	8199	26	ND	ND	0.09	ND
Aug	8.0	87	321	171	9	180	78	121	3.4	6	ND	0.04	28	0.11	1.2	ND	ND	0.3	31	13158	56	0.10	ND	ND	ND
Sep	8.0	103	397	246	4	250	73	151	2.8	4	ND	0.05	36	0.13	1.0	ND	ND	0.6	44	8946	40	ND	ND	0.19	ND
Oct	8.0	119	444	258	1	259	67	169	3.2	4	ND	0.06	40	0.14	0.9	ND	ND	0.4	53	2967	87	ND	ND	0.20	0.20
Nov	7.8	90	341	170	2	172	49	132	3.4	6	ND	0.06	29	0.10	1.5	ND	ND	0.4	37	3026	230	0.10	ND	0.10	ND
Dec	8.1	112	409	234	1	235	41	155	2.4	4	ND	0.06	34	0.12	1.5	ND	ND	0.5	41	3012	5	0.20	ND	ND	ND

	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	331	ND	ND	35	ND	ND	36	ND	ND	1.9	95	ND	2.4	7	29	0.7	1.2	ND	ND	17	188	ND	ND	0.2	3.1
Feb	268	ND	ND	34	ND	ND	35	ND	0.3	1.7	229	0.3	1.9	6	42	0.5	1.5	ND	ND	16	120	ND	ND	ND	3.2
Mar	394	ND	ND	36	ND	ND	36	ND	ND	1.6	124	ND	2.2	6	36	0.6	1.2	ND	ND	20	163	ND	ND	0.2	3.4
Apr	559	0.2	ND	41	ND	ND	33	ND	0.8	2.4	847	1.1	2.2	5	92	0.4	2.3	ND	ND	15	105	ND	ND	ND	5.6
May	438	ND	ND	42	ND	ND	31	ND	0.7	4.9	767	1.0	2.5	5	84	0.4	1.9	ND	ND	11	122	ND	ND	ND	4.8
Jun	227	ND	ND	41	ND	ND	39	ND	0.3	3.5	339	0.6	2.1	8	41	0.5	1.5	ND	ND	14	142	ND	ND	0.2	2.8
Jul	95	ND	ND	45	ND	ND	42	ND	ND	3.7	79	ND	2.4	9	28	0.8	1.3	ND	ND	17	188	ND	ND	0.2	1.2
Aug	679	ND	0.4	50	ND	ND	37	ND	0.8	2.6	1015	1.3	2.6	7	89	0.5	2.4	ND	ND	15	126	ND	0.6	ND	5.2
Sep	109	ND	0.3	43	ND	ND	45	ND	ND	4.8	154	0.2	3.5	10	18	1.0	1.4	ND	ND	20	207	ND	ND	0.3	1.4
Oct	72	ND	0.3	48	ND	ND	49	ND	ND	2.3	50	ND	4.1	11	11	1.4	1.4	ND	ND	22	261	ND	0.5	0.4	1.3
Nov	735	ND	ND	56	ND	ND	41	ND	1.0	3.6	1270	1.6	3.8	7	116	0.5	2.7	ND	ND	16	172	ND	0.7	0.3	7.5
Dec	160	ND	0.3	38	ND	ND	48	ND	ND	10	175	0.6	2.5	9	39	0.7	1.1	ND	ND	19	194	ND	ND	0.2	3.0



**WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS  
ANNUAL REPORT OF WATER ANALYSIS (2017)**

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	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb		
				4	10	1				6	10	2000	4	5		100									2				50					2		30			
<b>Dalecarlia Water Treatment Plant Finished Water</b>																																							
Jan	0.7	ND	38	0.7	1.7	ND	2.3	0.3	52	24	ND	ND	33	ND	ND	40	ND	ND	1.2	ND	ND	2.3	7	0.8	ND	0.7	1.0	2.5	ND	ND	21	190	ND	ND	ND	ND	1.5		
Feb	0.7	ND	30	0.7	1.7	ND	2.2	0.3	45	15	ND	ND	30	ND	ND	36	ND	ND	0.8	ND	ND	1.9	7	0.5	ND	0.4	0.9	---	ND	ND	21	120	ND	ND	ND	ND	0.7		
Mar	0.6	ND	39	0.7	1.3	ND	2.4	0.3	41	23	ND	ND	35	ND	ND	37	ND	ND	1.2	ND	ND	2.1	7	0.5	ND	0.5	1.1	---	ND	ND	26	165	ND	ND	ND	ND	1.3		
Apr	0.5	ND	30	0.7	1.3	ND	2.3	0.3	39	19	ND	ND	31	ND	ND	34	ND	ND	1.0	ND	ND	1.9	5	0.5	ND	0.4	1.0	2.2	ND	ND	20	114	ND	ND	ND	ND	0.6		
May	0.7	ND	21	0.7	1.1	ND	2.3	0.2	41	21	ND	0.2	35	ND	ND	34	ND	ND	0.8	ND	ND	2.1	5	0.5	ND	0.4	0.9	---	ND	ND	15	138	ND	ND	ND	ND	0.6		
Jun	0.7	ND	29	0.7	1.1	ND	2.4	0.3	44	22	ND	ND	36	ND	ND	42	ND	ND	0.9	ND	ND	1.8	7	0.2	ND	0.4	0.9	---	ND	ND	20	134	ND	ND	ND	ND	ND		
Jul	0.7	ND	35	0.7	1.3	ND	2.4	0.5	51	45	ND	0.3	41	ND	ND	46	ND	ND	1.0	ND	ND	2.3	9	0.8	ND	0.7	0.9	3.0	ND	ND	21	170	ND	ND	ND	ND	ND		
Aug	0.8	ND	32	0.8	1.2	ND	2.4	0.3	47	30	ND	0.2	37	ND	ND	41	ND	ND	1.2	ND	ND	2.1	7	1.0	ND	0.7	1.0	---	ND	ND	21	143	ND	ND	ND	ND	ND		
Sep	0.8	ND	41	0.8	1.0	ND	2.3	0.5	54	60	ND	0.4	34	ND	ND	45	ND	ND	0.9	ND	ND	2.5	8	0.6	ND	0.9	0.9	---	ND	ND	25	178	ND	ND	ND	ND	ND		
Oct	0.8	ND	43	0.7	0.8	ND	2.3	0.4	66	80	ND	0.4	42	ND	ND	50	ND	ND	1.2	ND	ND	2.5	11	1.0	ND	1.1	1.2	4.4	ND	ND	27	254	ND	ND	ND	ND	ND		
Nov	0.7	ND	34	0.7	1.5	ND	2.4	0.6	52	39	ND	0.2	39	ND	ND	44	ND	ND	1.2	ND	ND	2.5	8	0.6	ND	1.0	1.3	---	ND	ND	23	225	ND	ND	ND	ND	0.8		
Dec	0.8	ND	37	0.6	1.5	ND	2.3	0.3	55	29	ND	0.3	34	ND	ND	48	ND	ND	0.9	ND	ND	1.9	9	0.6	ND	0.7	0.8	---	ND	ND	22	199	ND	ND	ND	ND	1.0		
<b>McMillan Water Treatment Plant Finished Water</b>																																							
Jan	0.8	ND	40	0.6	1.6	ND	2.5	0.3	53	21	ND	ND	34	ND	ND	35	ND	ND	4.2	ND	ND	2.5	7	0.3	ND	0.7	1.1	2.6	ND	ND	24	193	ND	ND	ND	ND	27		
Feb	0.8	ND	31	0.7	1.6	ND	2.4	0.4	49	22	ND	ND	32	ND	ND	29	ND	ND	4.9	ND	ND	2.2	7	1.3	ND	0.7	1.2	---	ND	ND	20	133	ND	ND	ND	ND	1.5		
Mar	0.6	ND	39	0.6	1.3	ND	2.4	0.3	44	34	ND	ND	32	ND	ND	30	ND	ND	2.8	ND	ND	2.0	7	0.2	ND	0.5	0.9	---	ND	ND	23	154	ND	ND	ND	ND	1.1		
Apr	0.6	ND	32	0.6	1.3	ND	2.3	0.3	40	31	ND	ND	32	ND	ND	26	ND	ND	3.1	ND	ND	1.7	5	0.3	ND	0.4	0.8	2.3	ND	ND	21	128	ND	ND	ND	ND	1.1		
May	0.7	ND	25	0.7	1.0	ND	2.3	0.3	40	37	ND	ND	34	ND	ND	27	ND	ND	6.1	ND	ND	1.8	5	ND	ND	0.5	0.8	---	ND	ND	18	137	ND	ND	ND	ND	ND		
Jun	0.7	ND	29	0.8	1.0	ND	2.3	0.3	45	39	ND	ND	35	ND	ND	32	ND	ND	8.3	ND	ND	1.8	7	ND	ND	0.4	0.7	---	ND	ND	19	133	ND	ND	ND	ND	ND		
Jul	0.8	ND	35	0.7	1.2	ND	2.3	0.4	52	53	ND	ND	44	ND	ND	39	ND	ND	7.9	ND	ND	2.4	9	0.5	ND	0.7	0.7	3.5	ND	ND	23	191	ND	ND	ND	ND	ND		
Aug	0.8	ND	33	0.7	1.2	ND	2.4	0.3	51	44	ND	ND	38	ND	ND	34	ND	ND	6.1	ND	ND	1.9	7	0.6	ND	0.8	0.7	---	ND	ND	22	177	ND	ND	ND	ND	ND		
Sep	0.7	ND	42	0.6	1.0	ND	2.4	0.5	53	59	ND	0.3	37	ND	ND	40	ND	ND	5.9	ND	ND	1.5	9	0.3	ND	0.9	0.6	---	ND	ND	26	199	ND	ND	ND	ND	ND		
Oct	0.7	ND	44	0.8	0.8	ND	2.5	0.4	66	79	ND	0.2	42	ND	ND	45	ND	ND	6.5	ND	ND	2.1	11	0.4	ND	1.0	1.0	4.4	ND	ND	28	238	ND	ND	ND	ND	ND		
Nov	0.7	ND	44	0.7	0.8	ND	2.4	0.5	71	45	ND	ND	43	ND	ND	49	ND	ND	8.6	ND	ND	2.5	11	0.4	ND	1.0	1.1	---	ND	ND	---	240	ND	ND	ND	ND	ND		
Dec	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	



### WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2017)

	Miscellaneous Physical Parameters									Microorganisms			Haloacetic Acids (HAAs)						Trihalomethanes (THMs)				Volatile Organic Compounds (VOCs)																										
	pH	ALKALINITY	CONDUCTIVITY	TEMPERATURE	CHLORINE	TOTAL HARDNESS	TOTAL ORGANIC CARBON	TOTAL DISSOLVED SOLIDS	TOTAL SUSPENDED SOLIDS	TURBIDITY (Average)*	TOTAL COLIFORM (% positive)	E. COLI (% positive)	HETEROTROPHIC PLATE COUNT	DIBROMOACETIC ACID	DICHLOROACETIC ACID	MONOBROMOACETIC ACID	MONOCHLOROACETIC ACID	TRICHLOROACETIC ACID	TOTAL HALOACETIC ACIDS	BROMOCHLOROACETIC ACID	CHLOROFORM	BROMODICHLOROMETHANE	CHLORODIBROMOMETHANE	BROMOFORM	TOTAL TRIHALOMETHANES	BENZENE	BROMOBENZENE	BROMOCHLOROMETHANE	BROMOMETHANE	tert-BUTYL BENZENE	sec-BUTYL BENZENE	n-BUTYL BENZENE	CARBON TETRACHLORIDE	CHLOROBENZENE	CHLOROETHANE	CHLOROMETHANE	2-CHLOROTOLUENE	4-CHLOROTOLUENE	DIBROMOMETHANE	1,3-DICHLOROBENZENE	1,4-DICHLOROBENZENE								
EPA MCL*																												5																					75
Units	ppm	uS/cm	°F	ppm	ppm	ppm	ppm	ppm	NTU	%+	%+	CFU/ml	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	
<b>Dalecarlia Water Treatment Plant Finished Water</b>																																																	
Jan	7.7	63	376	45	3.8	129	1.8	192	2	0.03	0.0	0.0	<1	---	---	---	---	---	---	---	7.4	8.6	4.2	ND	20	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					
Feb	7.7	64	329	47	3.7	119	1.7	223	3	0.03	0.0	0.0	<1	ND	7.6	ND	1.1	6.3	15	2.9	8.5	7.5	2.6	ND	19	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
Mar	7.7	67	365	51	3.5	119	2.0	198	ND	0.04	0.0	0.0	<1	---	---	---	---	---	---	---	25.3	7.9	1.1	ND	34	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
Apr	7.7	64	315	62	3.4	106	1.8	166	ND	0.04	0.0	0.0	<1	---	---	---	---	---	---	---	23.6	9.9	2.2	ND	36	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
May	7.7	62	289	66	3.7	104	1.9	166	ND	0.04	0.0	0.0	<1	ND	11.6	ND	2.6	11.7	26	2.7	18.6	8.6	1.5	ND	29	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
Jun	7.7	85	360	77	3.6	136	1.8	219	ND	0.04	0.0	0.0	<1	---	---	---	---	---	---	---	26.6	11.8	3.3	ND	42	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
Jul	7.7	91	406	82	3.7	152	2.2	278	ND	0.04	0.8	0.0	1	---	---	---	---	---	---	---	45.2	16.0	3.7	ND	65	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
Aug	7.7	79	369	78	3.7	131	2.3	217	ND	0.04	0.0	0.0	1	ND	19.7	ND	2.0	20.8	43	4.8	24.6	14.0	4.3	ND	43	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
Sep	7.7	95	429	74	3.8	148	2.0	268	4	0.04	0.0	0.0	2	---	---	---	---	---	---	---	30.6	14.1	3.1	ND	48	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
Oct	7.7	111	472	68	3.8	171	2.2	289	ND	0.04	0.0	0.0	1	---	---	---	---	---	---	---	26.2	19.1	6.9	ND	53	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
Nov	7.7	88	390	52	3.8	140	2.1	190	ND	0.04	0.0	0.0	<1	ND	10.4	ND	1.0	11.6	23	4.1	12.2	9.4	3.1	ND	25	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
Dec	7.7	102	437	43	3.7	157	1.7	250	ND	0.03	0.0	0.0	<1	---	---	---	---	---	---	---	6.0	7.2	3.2	ND	16	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
<b>McMillan Water Treatment Plant Finished Water</b>																																																	
Jan	7.7	63	378	49	3.7	122	2.6	211	ND	0.01	0.0	0.0	20	---	---	---	---	---	---	---	7.1	8.7	4.8	ND	21	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
Feb	7.7	56	329	50	3.7	108	2.0	213	2	0.01	0.0	0.0	6	1.0	7.4	ND	ND	5.6	14	3.7	7.9	8.4	3.9	ND	20	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Mar	7.7	59	345	53	3.5	111	1.7	207	1	0.02	0.0	0.0	9	---	---	---	---	---	---	---	10.6	7.9	2.6	ND	21	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Apr	7.7	52	300	63	3.3	95	1.7	161	1	0.03	0.0	0.0	3	---	---	---	---	---	---	---	24.1	8.7	1.6	ND	34	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
May	7.7	52	283	66	3.8	96	1.8	162	1	0.03	0.0	0.0	1	ND	12.1	ND	2.2	13.5	28	2.6	24.5	8.7	1.5	ND	35	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND			
Jun	7.7	70	329	74	3.7	119	1.8	200	ND	0.03	0.0	0.0	1	---	---	---	---	---	---	---	29.5	12.8	3.4	ND	46	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Jul	7.7	82	390	80	3.7	138	2.0	237	ND	0.04	0.0	0.0	3	---	---	---	---	---	---	---	53.5	17.4	4.5	ND	75	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Aug	7.7	69	362	78	3.7	121	2.1	209	ND	0.03	0.0	0.0	3	1.4	19.9	ND	1.8	20.8	44	6.8	36.1	15.2	4.5	ND	56	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Sep	7.7	85	410	74	3.7	143	1.8	256	3	0.03	0.0	0.0	3	---	---	---	---	---	---	---	20.4	16.7	9.0	1.2	47	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Oct	7.7	101	456	70	3.7	165	1.8	277	ND	0.03	0.0	0.0	3	---	---	---	---	---	---	---	27.5	19.1	7.5	ND	54	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		
Nov	7.7	98	463	64	3.5	167	---	---	---	0.02	0.0	0.0	18	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Dec	7.9	---	---	---	3.8	---	---	---	---	0.01	0.0	0.0	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		

\*EPA MCL = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters  
Turbidity\* = Water turbidity after filters  
CFU/mL = Colony Forming Units per milliliter

ppm = Parts Per Million  
NTU = Nephelometric Turbidity Units

ppb = Parts Per Billion  
µS/cm = microSiemens per centimeter

ND = Not Detected

"---" = No Analysis Required



## WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2017)

	Volatile Organic Compounds																											Oxygenates & Other VOCs																										
	1,2-DICHLOROBENZENE	DICHLORODIFLUOROMETHANE	1,1-DICHLOROETHANE	1,2-DICHLOROETHANE	trans-1,2-DICHLOROETHYLENE	cis-1,2-DICHLOROETHYLENE	1,1-DICHLOROETHYLENE	1,3-DICHLOROPROPANE	2,2-DICHLOROPROPANE	1,2-DICHLOROPROPANE	trans-1,3-DICHLOROPROPENE	cis-1,3-DICHLOROPROPENE	1,1-DICHLOROPROPENE	ETHYLBENZENE	HEXACHLOROBUTADIENE	ISOPROPYLBENZENE	4-ISOPROPYLTOLUENE	METHYLENE CHLORIDE	NAPHTHALENE	n-PROPYLBENZENE	STYRENE	1,1,1,2-TETRACHLOROETHANE	1,1,2,2-TETRACHLOROETHANE	TETRACHLOROETHYLENE	TOLUENE	1,2,3-TRICHLOROBENZENE	1,2,4-TRICHLOROBENZENE	1,1,1-TRICHLOROETHANE	1,1,2-TRICHLOROETHANE	TRICHLOROETHYLENE	TRICHLOROFLUOROMETHANE	1,2,3-TRICHLOROPROPANE	1,2,4-TRIMETHYLBENZENE	1,3,5-TRIMETHYLBENZENE	TOTAL XYLENES	VINYL CHLORIDE	2-BUTANONE (MEK)	4-METHYL-2-PENTANONE (MIBK)	DI-ISOPROPYL ETHER	METHYL TERT-BUTYL ETHER (MTBE)	TERT-AMYL ETHYL ETHER (TAME)	TERT-BUTYL ETHYL ETHER (TBEE)	BROMOETHANE	CARBON DISULFIDE	TRICHLOROTRIFLUOROETHANE									
EPA MCL*	600			5	100	70	7			5			700				5			100			5	1000		70	200	5	5						10,000	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							
<b>Dalecarlia Water Treatment Plant Finished Water</b>																																																						
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	ND	ND						
Feb	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					
Mar	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				
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	ND	ND	ND	ND	ND	ND				
May	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				
Jun	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				
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	ND	ND				
Aug	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				
Sep	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	ND			
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	ND			
Nov	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	ND			
Dec	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	ND			
<b>McMillan Water Treatment Plant Finished Water</b>																																																						
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	ND	ND	ND	ND	ND	ND		
Feb	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	ND	ND	ND	
Mar	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	ND	ND	ND	
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	ND	ND	ND	ND	ND	ND	ND	ND	ND	
May	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	ND	ND	ND	
Jun	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	ND	ND	ND	
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	ND	ND	ND	ND	ND	
Aug	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	ND	ND	ND	
Sep	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	ND	ND	ND	
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	ND	ND	ND	
Nov	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dec	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---

\*EPA MCL = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters

ppb = Parts Per Billion

ND = Not Detected

"---" = No Analysis Required



# WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2017)

## 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)FLUORANTHENE	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			
EPA MCL*						2													0.5	3															40			2							70	200			
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	ND	ND	ND	ND					
Feb	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---			
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	ND	ND	ND	ND	ND	ND	ND	ND			
May	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Jun	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Jul	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.09	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	ND	ND	ND		
Nov	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dec	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	---	---	---	---			

### McMillan 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	ND	ND	ND	ND	ND	ND	ND	ND	ND					
Feb	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
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	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND				
May	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Jun	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Jul	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.8	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	ND	ND	ND	ND	ND	ND				
Nov	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dec	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	---	---	---	---	---	---	---			

\*EPA MCL = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters

ppb = Parts Per Billion

ND = Not Detected

"---" = No Analysis Required





# WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2017)

	Synthetic Organic Compounds																				Miscellaneous				Nitrosamines						Radionuclides								
	METOLACHLOR	METRIBUZIN	MOLINATE	trans-NONACHLOR	OXAMYL	PARAQUAT	PARATHION	PENDIMETHALIN	PERMETHRIN	PENTACHLOROPHENOL	PHENANTHRENE	PICLORAM	PROPACHLOR	PYRENE	SIMAZINE	TERBACIL	TERBUTHYLAZINE	THIOBENCARB	TRIFLURALIN	TOXAPHENE	2,4,5-T	2,4,5-TP (SILVEX)	DIBROMOCHLOROPROPANE (DBCP)	ETHELYNE DIBROMIDE (EDB)	CYANIDE	2,3,7,8-TCDD (DIOXIN)	N-NITROSODIMETHYLAMINE (NDMA)	N-NITROSO-n-PROPYLAMINE (NDPA)	N-NITROSODIBUTYLAMINE (NDBA)	N-NITROSODIETHYLAMINE (NDEA)	N-NITROSOMETHYLETHYLAMINE (NMEA)	N-NITROSOPYRIDINE (NPYR)	GROSS ALPHA PARTICLE ACTIVITY	GROSS BETA PARTICLE ACTIVITY	RADIUM-226 & RADIUM-228	STRONTIUM-90	TRITIUM		
EPA MCL*				200					1		500			4							3		50	200	50	0.2	30								15	50**	5		
Units	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppt	ppt	ppm	ppq	ppt	ppt	ppt	ppt	ppt	ppt	pCi/L	pCi/L	pCi/L	pCi/L	pCi/L		

### 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			
Feb	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
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			
May	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Jun	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
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	1.6	1.6	ND	ND		
Aug	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Sep	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	---
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	2.8	1.2	ND	ND			
Nov	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	
Dec	ND	ND	ND	ND	---	---	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	

### McMillan 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					
Feb	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
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	2.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND					
May	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Jun	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Jul	0.08	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	0.05	ND	ND	ND	ND	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.1	ND	ND	ND	ND						
Aug	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---		
Sep	---	---	---	---	---	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	ND	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---	---	---		
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	3.3	ND	ND	ND		
Nov	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---
Dec	ND	ND	ND	ND	---	---	ND	ND	ND	ND	---	ND	ND	ND	ND	ND	ND	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	---	