

#### **Washington Aqueduct**

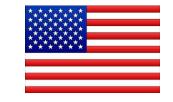
#### **U.S. Army Corps of Engineers**

# Annual Report of Water Analysis 2004

Prepared by:

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







Potomac River Raw Water Supply

			Misc	ellaneo	us Phy	sical P	aramet	ers						Ino	rganic	lons						Micro	organisms		
	Н	ALKALINITY	CONDUCTIVITY	DISSOLVED SOLIDS	SUSPENDED SOLIDS	TEMPERATURE	TOTAL HARDNESS	TOTAL ORG. CARBON	TOTAL SOLIDS	TURBIDITY	TOTAL AMMONIA	BROMIDE	CHLORIDE	FLUORIDE	NITRATE	NITRITE	ORTHOPHOSPHATE as PO4	PERCHLORATE	SULFATE	ALGAE COUNT	TOTAL COLIFORM	E. COLI	GIARDIA	CRYPTOSPORIDIUM	VIRUS
		ppm	uS/cm	ppm	ppm	F	ppm	ppm	ppm	NTU	ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppb	ppm	org/mL	MPN/100mL	MPN/100mL	cysts/10L	oocysts/10L	MPN/100L
Jan	7.3	75	270	199	13	34	124	1.39	212	3	ND	ND	26	0.08	2.82	ND	ND	< 4	27	16	1037	29	ND	ND	
Feb	7.5	64	243	152	28	39	105	2.55	180	10	0.11	ND	21	0.11	1.77	ND	ND	< 4	22	168	4091	111	ND	ND	70.7
Mar	7.7	61	259	136	18	49	98	2.13	154	4	ND	ND	19	0.11	1.80	ND	ND	< 4	24		906	28	ND	ND	
Apr	7.6		233	128	173	54	91	2.59	301	41	ND	ND	18	0.10	1.71	ND	ND	< 4	19	425	3743	601	ND	ND	
May	7.7	72	268	159	41	70	99	2.74	200	37	ND	ND	17	0.13			ND	< 4	19	457	6120	840	ND	ND	66.0
Jun	7.7	77	283	196	70	74	107	3.64	266	45	ND	ND	18	0.14	2.00	ND	ND	< 4	23	211	10596	238	ND	ND	
Jul	7.8		324	226	13	76	129	2.88	239	9	0.05		25	0.16				< 4	31	201	6777	118	ND	ND	
Aug	7.9		316	218	11		128	3.20	229	13	ND	ND	22	0.15		ND	0.06	< 4	29	155	4838	197	ND	ND	
Sep	7.9	78	272	141	152	73	108	4.08	293	65	0.05		15	0.14				< 4	25	90	4774	1510	ND	ND	22.2
Oct	8.1		340	221	7	60	128	2.67	228	13	ND	ND	20	0.15			0.31	< 4	29	48	1753	41	ND	ND	
Nov	8.0		289	213	5	53	125	2.94	218	7	ND	ND	19	0.14	1.61	ND	0.32	< 4	33	80	1200	53	ND	ND	33.8
Dec	7.9		243	162	32	43	95	2.49	194	14	ND		14	0.10	2.07	ND	0.13	< 4	24	80	3282	1160	ND		
Avg	7.8		278	179	47	59	111	2.78	226	22		ND	20			ND		< 4	25	186	4093	411	ND	ND	48.2
Max	8.1		340	226	173	79	129	4.08	301	65	0.11	ND	26	0.16	2.82	ND	0.32	< 4	33	457	10596	1510	ND	ND	70.7
Min	7.3	57	233	128	5	34	91	1.39	154	3	ND	ND	14	0.08	1.50	ND	ND	< 4	19	16	906	28	ND	ND	22.2

																Metals	5											
	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	САБМІИМ	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	LITHIUM	MAGNESIUM	MANGANESE	MERCURY	MOLYBDENUM	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	STRONTIUM	THALLIUM	THORIUM	URANIUM	VANADIUM	ZINC
	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Jan	205	ND	ND	34.0	ND	ND	36	ND	ND	1.7	133	ND	1.9	8	43	ND	ND	2.0	2.3	ND	ND	19.0	123	ND	ND	ND	ND	2.0
Feb	309	ND	ND	40.3	ND	ND	30	ND	ND	2.6	71	0.5	2.7	7	27	0.3	1.0	1.2		0.5	ND		181	ND	ND	ND	ND	2.5
Mar	182	ND	ND	29.9	ND	ND	28	ND	ND	2.4	171	ND	1.8		42	ND	ND	1.2		ND	ND		120	ND	ND	ND	ND	2.0
Apr	196		ND	34.9	ND	ND	25	ND	ND	2.5	212	ND	2.1		71	ND	0.7	1.1	1.8	0.5	ND	9.8	122	ND		ND	0.5	5.6
May			0.5	38.3	ND		29	0.7	ND	3.0	385	ND	1.7	7	84	ND	0.5	1.4		0.5	ND		114	ND	ND	ND	1.1	3.2
Jun	253		0.7	44.7	ND		31	2.3	ND	3.1	273	ND	2.3	7	75	ND	0.5	1.1		0.7	ND		165	ND		ND	1.1	1.8
Jul	225		0.5	42.1	ND		37	ND	ND	3.5	ND	ND	2.1		71	ND	1.3	1.2	3.3	ND	ND	13.0		ND		ND	1.2	1.8
Aug		ND	0.8	37.7	ND		37	1.7	ND	4.6	441	0.8	1.9	9	102	ND	1.1	1.7		ND	ND		124	ND		ND	2.2	6.2
Sep	204	ND	0.7	46.2	ND		31	0.8	ND	4.5	99	ND	3.0	8	35	ND	1.7	1.1		ND	ND		224	ND	ND	ND	1.5	1.5
Oct	427	ND	0.6	43.1	ND		37	ND	ND	6.5	529	0.9	1.3	8	49	ND	ND	1.5	3.3	ND	ND	15.0		ND		ND	1.3	3.1
Nov	283		ND	49.3	ND		37	ND	ND	5.7	226	ND	2.6	8	50	ND	1.2	1.2		ND	ND		216	ND		ND	0.7	2.0
Dec			ND	31.6	ND	ND	27	ND	ND	4.4	318	0.6	ND		33	ND	ND	1.2		ND	ND		104	ND		ND	0.7	3.4
Avg		ND	ND	39.3	ND		32	-	ND	3.7	238	ND	1.9	8	57	ND	0.6	1.3	2.7	ND	ND	14.2		ND		ND	0.8	2.9
Max			0.8	49.3	ND		37	1.7	ND	6.5	529	0.9	3.0	9	102	0.3	1.7	2.0	3.3	0.7	ND	19.0		ND		ND	2.2	6.2
Min	182	ND	ND	29.9	ND	ND	25	ND	ND	1.7	ND	ND	ND	6	27	ND	ND	1.1	1.8	ND	ND	9.8	104	ND	ND	ND	ND	1.5

ppb = Parts Per Billion ppm = Parts Per Million

ND = Not Detected

#### WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2004)

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				Inor	ganic lo	ons																	Meta	ls													
ЕРА	TOTAL AMMONIA	BROMIDE	CHLORIDE	FLUORIDE	NITRATE	NITRITE	ORTHOPHOSPHATE as PO4	PERCHLORATE	SULFATE	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	САБМІИМ	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	LITHIUM	MAGNESIUM	MANGANESE	MERCURY	MOLYBDENUM	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	STRONTIUM	THALLIUM	THORIUM	URANIUM	VANADIUM	ZINC
MCL*	1			4	10	1					6	50	2000	4	5		100								2		100		50				2				
	D.L.				4	DI	4 =11.																														
	ppm	ppm ppm	ppm	r irea	tment ppm	ppm	ppm	snea v	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppm	ppb	ppb	ppm	ppb	ppb	ppb	ppb	ppb	ppb
Jan	0.89					ND	+		37	30	ND		32.6	ND	ND				1.1	ND	ND	1.5	ppiii	0.5	ND	ND	0.8	2.3	ND	ND	24	126	ND	1.3	ND	ND	0.8
Feb	0.91								37	25	ND		36.8	ND	ND	38			4.8	ND	ND	2.5	7	0.8	ND	1.2	1.3	2.3	0.7	ND		157	ND	1.3	ND	ND	1.1
Mar	1.00			1	1.87	ND	1 1		34	28	ND		31.5	ND	ND	35			0.9	ND	ND	1.6	7	0.5	ND	0.7	0.7		0.5	ND		133	ND	0.6	ND	ND	ND
Apr	0.11			1 1	1.74	ND			35	29	ND		36.1	ND	ND	35			1.5	ND	ND	1.8	6	0.8	ND	0.7	0.8	2.0	0.5	ND	10	143	ND	ND	ND	0.5	0.9
May	0.76	1 1		1 1	1.64				37	31	ND		34.6	ND	ND	38			1.2	ND	ND	1.3	6	0.6	ND	1.1	0.7		ND	ND		118	ND	ND	ND	0.6	ND
Jun	0.94	ND	24	0.91	2.03	ND	ND	< 4	40	28	ND		41.1	ND	ND	40	1.2	ND	1.6	ND	ND	1.6	7	0.9	ND	0.9	0.7		1.0	ND		161	ND	ND	ND	0.8	ND
Jul	0.97	ND	27	0.96	1.60	ND	ND	< 4	46	37	ND	0.5	40.5	ND	ND	44	ND	ND	2.5	ND	ND	1.5	9	1.1	ND	1.2	0.9	3.3	0.7	ND	13	194	ND	ND	ND	0.7	7.7
Aug	0.86	ND	27	0.90	1.68	ND	0.41	< 4	47	36	ND	ND	36.8	ND	ND	44	ND	ND	2.1	14.2	ND	2.7	8	1.3	ND	1.1	0.9		0.6	ND		141	ND	ND	ND	0.9	ND
Sep	1.00	ND	18	0.89	1.48	ND	2.91	< 4	43	76	ND	ND	43.3	ND	ND	39	0.7	ND	17.9	ND	ND	2.7	7	1.7	ND	1.8	0.9		ND	ND		223	ND	ND	ND	1.1	3.0
Oct	1.07	ND	23	0.88	1.92	ND	2.92	< 4	42	37	ND	ND	37.0	ND	ND	43	0.7	ND	2.9	ND	ND	0.5	8	0.6	ND	0.5	1.0	3.2	ND	ND	15	117	ND	ND	ND	0.7	1.5
Nov	1.09				1.62	ND		< 4	47	46	ND		45.0	ND	ND	42			5.0	ND	ND	2.1	9	0.6	ND	1.2	0.9		ND	ND		215	ND	ND	ND	0.7	ND
Dec	0.97	1		1 1	1.77		_	< 4	37	28	ND		30.2	ND	ND	33			2.5		ND	ND	7	ND	ND	ND	0.8		ND	ND		117	ND	ND	ND	ND	8.0
Avg	0.88	1		1	1.81	ND	1 1	< 4	40	36	ND		37.1	ND	ND				3.7	ND	ND	1.8	7	0.8	ND	0.9	0.9	2.7	ND	ND	16	154	ND	ND	ND	0.5	1.3
Max	1.09	1 1		+	2.63	ND	_	< 4	47	76	ND		45.0	ND	ND	44			17.9	14.4	ND	2.7	9	1.7	ND	1.8	1.3	3.3	1.0	ND	24	223	ND	1.3	ND	1.1	7.7
Min	0.11	ND	17	0.73	1.48	ND	ND	< 4	34	25	ND	ND	30.2	ND	ND	33	ND	ND	0.9	ND	ND	ND	6	ND	ND	ND	0.7	2.0	ND	ND	10	117	ND	ND	ND	ND	ND
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					ment F							<del></del> T		<del></del> 1												1											
Jan	0.75			1 1				1 1	38	45					ND				2.7	ND	ND		8	0.7	ND	ND	0.9		ND			125		ND	ND		
Feb	1.04	1 1			2.21 1.62		1 1	1 1	37 36	34 36	ND ND		32.9 31.0	ND ND	ND ND	46 33			2.9	ND ND	ND ND	1.6	,	ND	ND ND	0.9	1.0 0.8		ND ND	ND ND		161 124	ND ND	ND ND	ND ND	ND ND	0.9 ND
Mar Apr	0.91	1 1		1 1				1 1	36	32	ND		34.3	ND	ND				2.7	15.3	ND	1.6 1.6	6	1.2 0.9	ND	0.6	1.0	2.3	ND	ND		130	ND	ND	ND	ND	3.5
May	0.12				1.50		1 1	1 1	38	31	ND		37.5	ND	ND	34	0.9		3.3	ND	ND	1.6	6	ND	ND	0.8	0.7		ND	ND		110	ND	ND	ND	0.5	ND
Jun	0.97						1 1		42	68	ND		40.0	ND	ND	36			6.1	ND	ND	1.6	7	1.2	ND	0.8	0.8		0.6	ND		154	ND	ND	ND	0.5	ND
Jul	0.86			1 1	1.39				47	44	ND		38.7	ND	ND	42			7.5	ND	ND	1.3	8	1.3	ND	1.0	0.9	3.1	0.5	ND		167	ND	ND	ND	0.6	1.8
Aug	0.80	1 1		1 1	1.56		1 1	< 4	47	58	ND		41.6	ND	ND				7.1		ND	2.3	8	0.9	ND	1.7	0.7		0.5	ND		182	ND	ND	ND	0.7	0.8
Sep	0.96	ND	23	0.87	1.36	ND	3.23	< 4	54	59	ND	ND	43.2	ND	ND	39	0.6	ND	9.3	212.0	ND	2.1	8	1.7	ND	1.6	1.1		ND	ND		212	ND	ND	ND	0.9	2.0
Oct	1.03	ND	22	0.88	1.82	ND	2.94	< 4	46	28	ND	ND	38.5	ND	ND	38	0.8	ND	13.9	ND	ND	1.0	8	0.7	ND	0.7	0.9	3.0	ND	ND	14.0	132	ND	ND	ND	0.5	8.5
Nov	1.12	ND	25	0.87	1.56	ND	3.02	< 4	50	37	ND	ND	43.3	ND	ND	42	0.7	ND	8.5	ND	ND	1.5	9	ND	ND	1.1	0.8		ND	ND		201	ND	ND	ND	0.5	ND
Dec	0.97	ND	19	0.71	1.77	ND	3.10	< 4	41	25	ND	ND	33.2	ND	ND	30	ND	ND	5.8	20.8	ND	ND	7	0.6	ND	0.6	0.8		ND	ND		147	ND	ND	ND	ND	1.6
Avg	0.85	ND	25	0.84	1.72	ND	1.06	< 4	43	41	ND	ND	37.2	ND	ND	38	0.5	ND	6.0	21.6	ND	1.5	7	0.6	ND	0.6	0.9	2.6	ND	ND	12.8	154	ND	ND	ND	ND	1.7

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

2.50 ND 3.23 < 4

Min 0.12 ND 19 0.71 1.36 ND ND <4 36 25 ND ND 31.0 ND ND

68

ND ND 43.3

ND ND

46

30 ND ND 2.0

ppb = Parts Per Billion

ND 13.9 212.0 ND 2.3

ND ND ND

ppm = Parts Per Million

ND = Not Detected

9 1.7 ND 1.7 1.1 3.1 0.6 ND 14.0 212 ND ND ND

6 ND ND ND 0.7 2.1 ND ND 11.0 110 ND ND ND ND ND ND

## HMH

#### WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2004)

			Misce	llaneo	us Ph	ysical I	Param	eters				Micro	organis	ms		Haloa	cetic A	Acids (	HAAs	)	Tri	halome	ethane	s (TH	Ms)					Y	/olatile	e Orga	nic C	ompo	unds (	(VOCs)					
ЕРА	Ħ	ALKALINITY	CONDUCTIVITY	TEMPERATURE	TOTAL CHLORINE	TOTAL HARDNESS	TOTAL ORG. CARBON	TOTAL DISSOLVED SOLIDS	TOTAL SUSPENDED SOLIDS	TURBIDITY (Average)*	TOTAL COLIFORM (% positive)	E. COLI (% positive)	ALGAE COUNT	HETEROTROPHIC PLATE COUNT	DIBROMOACETIC ACID	DICHLOROACETIC ACID	MONOBROMOACETIC ACID	MONOCHLOROACETIC ACID	TRICHLOROACETIC ACID	TOTAL HALOACETIC ACIDS	CHLOROFORM	BROMODICHLOROMETHANE	CHLORODIBROMOMETHANE	BROMOFORM	TOTAL TRIHALOMETHANES	BENZENE	BROMOBENZENE	BROMOCHLOROMETHANE	BROMOMETHANE	tert-BUTYLBENZENE	sec-BUTYLBENZENE	n-BUTYLBENZENE	CARBON TETRACHLORIDE	CHLOROBENZENE	CHLOROETHANE	CHLOROMETHANE	2-CHLOROTOLUENE	4-CHLOROTOLUENE	DIBROMOMETHANE	1,3-DICHLOROBENZENE	1,4-DICHLOROBENZENE
MCL*		ı			4.0			ı	1 1	0.5					ı			ı		60					80	5			ı.	ı	1		5	100							75
	Dale	carlia	a Wat	er Tre	eatmo	ent Pl	ant F	inist	ned V	Nater																															
		ppm	uS/cm	F	ppm	ppm	ppm	ppm	ppm	NTU	%+	%+	Org/mL	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
Jan	8.3			41	3.7	139	0.97	210		0.04	0	0	0	<1	ND	6.9	ND	ND	4.8	11.7	7.3	3.8	0.9	ND	12.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Feb	8.3	66		43	3.7	124	1.38		1	0.04	0	0	0	<1	ND	7.1	ND	ND	6.1	13.3	6.8	5.2	1.5	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND
Mar	8.4	62		53	3.7	115	1.27	152	1	0.04	0	0	0	<1							12.4	5.2	0.9	ND	18.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND
Apr	8.3	61		59		113	1.35		1	0.06	0	0	0	<1	ND	9.5	ND	ND	8.5	18.0	16.2	6.1	1.8		23.5	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND
May	7.8	69 74	311 332	72 75	3.7	122 129	1.55			0.06	0		0	<1 <1							26.7	7.7 7.2	1.1	ND	35.5 31.6	ND ND	ND ND	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 Jul	7.7	88		75 85		148	1.79			0.05		0	0	<1	ND	11.7	ND	ND	10.1	21.8	22.3	8.4	1.8	ND	32.5	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND
Aug	7.7	88				146				0.06	0		0	1						21.0	35.1	9.7	1.3	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND		ND	ND
Sep	7.7	76		74		129	2.05			0.05	0	0	0	3							33.5	10.1	1.4	ND	45.0	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND
Oct	7.7	90		62		142	1.54	252	2	0.04	0	0	0	2	ND	8.5	ND	ND	9.7	18.2	14.2	6.3	1.2	ND	21.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND
Nov	7.7	83	351	56	3.7	142	1.80	226	<1	0.05	0	0	0	<1							20.8	7.3	1.0	ND	29.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dec	7.7	65	281	47	3.7	112	1.50	178	9	0.04	0	0	0	<1							12.0	3.8	0.5	ND	16.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Avg	7.9	75	330	62	3.7	130	1.58	201	4	0.05	0	0	0	<1	ND	8.7	ND	ND	7.8	16.6	19.2	6.7	1.2	ND	27.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Max	8.4	90	367	85	3.7	148	2.05	252	11	0.06	0	0	0	3	ND	11.7	ND	ND	10.1	21.8	35.1	10.1	1.8	ND	46.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Min	7.7	61	281	41	3.3	112	0.97	152	<1	0.04	0	0	0	<1	ND	6.9	ND	ND	4.8	11.7	6.8	3.8	0.5	ND	12.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
				_																																					
١.			Wate						1 1		_																														
Jan	8.3	70 65		51 47	3.6	130 125	1.45	190 253		0.04	0	0	0	<1 <1	ND ND	6.5 6.5	ND ND	ND ND	4.8 3.9	11.3	8.4 7.2	4.7 5.3	1.2 1.9	ND ND	14.2	ND ND	ND ND	ND ND	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	8.4 8.5	55		50	3.7	110	1.71	154		0.04	0	0	0	1	ND	6.5	ND	ND	3.9	10.4	14.0	5.9	1.1	ND	21.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND
Apr	8.4	52		55		106	1.48	162	1 1	0.05	0	0	0	<1	ND	9.3	ND	ND	7.2	16.5	16.1	6.9	1.4	ND	24.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND
May	8.0	59		63	3.7	113	1.72		1	0.06	0	0	0	<1							31.6	10.1	2.0	ND	43.7	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND
Jun	7.9	61	310	69		118	1.75	201	14	0.07	0	0	0	<1							37.4	10.1	1.4	ND	48.9	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	ND	ND	ND
Jul	7.8	80	349	75	3.6	141	1.61	243	2	0.08	0	0	0	<1	ND	16.8	ND	ND	13.9	30.7	35.6	10.3	1.9	ND	47.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aug	7.7	76	341	77	3.7	137	2.08	213	<1	0.08	0	0	0	<1							42.8	11.4	1.6	ND	55.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sep	7.6	70	341	76	3.7	133	2.11	221	1	0.08	0	0	0	13							51.5	12.5	1.9	ND	65.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Oct	7.7	70		71	3.8	128	1.72		1	0.08	0	0	0	8	ND	10.9	ND	ND	10.0	20.9	19.3	7.1	1.3	ND	27.8	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND		ND	ND
Nov	7.6	81	348	63	3.7	142	1.78			0.07	0	0	0	15							24.3	8.5	1.4	ND	34.2	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND	-	ND	ND
Dec	7.6	55		_		105	1.86		+	0.05	1	0	0	4							15.6	6.2	1.1	ND	22.9	ND	ND	ND	ND	ND	ND	ND	ND	ND		$\vdash$	ND	ND	-	ND	ND
Avg	8.0	66				124			1	0.06	0	Ť	0	3	ND	10.0	ND		8.0	1	25.3	8.3	1.5	ND	35.1	ND	ND	ND	ND	ND	ND	ND	ND	ND			ND	ND		ND	ND
Max Min	8.5 7.6	81 52	371 275	77 47	3.8	142 105	1.45		_	0.08	0	0	0	15 <1		16.8 6.5	ND ND			30.7 10.4	51.5 7.2	12.5 4.7	2.0 1.1	ND ND	65.9 14.2	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND		ND ND	ND ND	ND ND	ND ND	ND ND
*EDA N		. 52	2/5	4/	ა.ნ		1.40	154	1 51	0.04		. "	U	<u> </u>	טאן	0.0		Oorto Do		10.4	1.2	4./	1.1		14.2	ND	טא		עא	עוא	ND	ND	מא		_ אט	_ ND	שט	ND	מא	שט	מא

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

ppb = Parts Per Billion

ppm = Parts Per Million

ND = Not Detected

"---" = No Analysis Required

Turbidity\* = Water turbidity after filters



#### WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2004)

		J																																											
																		Vo	olatile	Orgai	nic Co	mpou	nds																Synth	netic O	rgani	c Con	npoun	ds	
ЕРА	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	METHYL TERT-BUTYL ETHER (MTBE)	NAPHTHALENE	NITROBENZENE	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	ACENAPHTHYLENE	ACETOCHLOR	ALACHLOR	ALDICARB	ALDICARB SULFONE	ALDICARB SULFOXIDE	ALDRIN
MCL*	600			5	100	70	7			5				700				5					100			5	1000		70	200	5	5				1	10,000	2			2	3	2	4	
	Daleca	arlia V	Vater	Trea	tmer	nt Pla	ant Fi	inish	ed W	/ater																																			
	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
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
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				- 1	-	-	_
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\*EPA MCL = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters.

opb = Parts Per Billio

ppm = Parts Per Million

ND = Not Detected



#### WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2004)

110	Tİ,																ANN	IUAL	REF	POR	r OF	WA	TER	ANA	LYS	SIS (	2004	l)																
						1														Syr	thetic	Orga	nic C	ompou	unds																			
	ANTHRACENE	AROCHLOR 1016	AROCHLOR 1221	AROCHLOR 1232	AROCHLOR 1242	AROCHLOR 1248	AROCHLOR 1254	AROCHLOR 1260	ATRAZINE	BAYGON	BENTAZON	BENZO(a)ANTHRACENE	BENZO(k)FLUORANTHENE	BENZO(g,h,I)PERYLENE	BENZO(a)PYRENE	арћа-ВНС	beta-BHC	delta-BHC	BROMACIL	BUTACHLOR	BUTYLBENZYLPHTHALATE	CAFFEINE	CARBARYL	CARBOFURAN	alpha-CHLORDANE	gamma-CHLORDANE	CHLORDANE	CHLORTHALONIL	CHRYSENE	2,4-D	DALAPON	2,4-DB	DCPA MONO & DIACID DEGRADATE	DDD p.p.DDD	4,4'DDE	p,p'DDE	TQQ'q,q	DIBENZ(a,h)ANTHRACENE	DICAMBA	3,5-DICHLOROBENZOIC ACID	DICHLORPROP	DIELDRIN	DIETHYLPHTHALATE	di-(2-ETHYLHEXYL)ADIPATE
EPA MCL*		0.5	0.5	0.5	0.5	0.5	0.5	0.5	3						0.2									40			2			70	200								Ш					400
	Dale	carli	ia Wa	ppb	Trea	ppb	t Pla	nt Fi	nishe <sub>ppb</sub>	ppb ppb	ater ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	nnh	ppb	ppb	nnh	ppb	nnh	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
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D = Not Detected

### HMH

#### WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2004)

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																			Syn	thetic	Orga	nic Co	mpou	ınds																			Mis	cellane	ous
EPA	d+(2-ETHYLHEXYL)PHTHALATE	DIMETHOATE	DIMETHYLPHTHALATE	DI-N-BUTYLPHTHALATE	2,6-DINITROTOLUENE	2,4-DINITROTOLUENE	DINOSEB	DIQUAT	ENDOTHALL	ENDRIN	EPTC	FLUORANTHENE	FLUORENE	GLYPHOSATE	HEPTACHLOR HEPTACHLOR EPOXIDE	HEXACHLOROBENZENE	HEXACHLOROCYCLOPENTADIENE	3-HYDROXYCARBOFURAN	INDENO(1,2,3,c,d)PYRENE	ISOPHORONE	LINDANE	METHIOCARB	МЕТНОМҮL	METHOXYCHLOR	METOLACHLOR	METRIBUZIN	MOLINATE	trans-NONACHLOR	OXAMYL	PARAQUAT	PENTACHLOROPHENOL	PHENANTHRENE	PICLORAM	PROMETRYN	PROPACHLOR	PYRENE	SIMAZINE	TERBACIL	THIOBENCARB	TRIFLURALIN	TOXAPHENE	2,4,5-TP (SILVEX)	DIBROMOCHLOROPROPANE (DBCP) ETHELYNE DIBROMIDE (EDB)	CYANIDE	DIOXIN
MCL					•				100	2			•	700	0.4 0.2	2 1	50				0.2			40		•		•	200	•	1	•	500	•	•		4	•	•		3	50	0.2 50	0.2	30
										ed W		-	,	-			1								- 1		-	1				- 1	-					1		1	—-		——		
	ppb	_	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb		ppb pp	_	+	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb		_	ppb		-+	_	_	ppb			_		ppb	-	ppb	_		ppb pp	_	pg/L
Jan	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND N	D ND	) ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND N		<del> </del>
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\*EPA MCL = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters.

ppb = Parts Per Billion

ppm = Parts Per Million

ND = Not Detected