

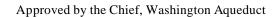
Washington Aqueduct

U.S. Army Corps of Engineers

Annual Report of Water Analysis 2003

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	cellaneo	us Phy	sical Pa	aramet	ers						Inor	ganic	lons						Microc	rganisms		
	Нd	ALKALINITY	CONDUCTIVITY	DISSOLVED SOLIDS	SUSPENDED SOLIDS	TEMPERATURE	TOTAL HARDNESS	TOTAL ORG. CARBON	TOTAL SOLIDS	TURBIDITY	TOTAL AMMONIA	BROMIDE	CHLORIDE	FLUORIDE	NITRATE	NITRITE	ОКТНОРНОЅРНАТЕ	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	ppm	ppm	org/mL	MPN/100mL	MPN/100mL	cysts/10L	oocysts/10L	MPN/100L
Jan	7.8	71	315	167	22	38	118	3.32	189	28	0.05	ND	28	0.12	3.04	ND	ND		28	160	2618	344	ND	ND	
Feb	7.5	76	384	222	4	39	128	3.04	226	32	0.08	ND	37	0.13	2.44	ND	ND		30	216	2580	81	ND	ND	512.0
Mar	7.5	50	260	134	32	46	84	3.04	166	25	0.12	ND	25	0.10	1.89	ND	ND		20	355	2081	186	ND	ND	
Apr	7.7	65	245	150	15	55	99	3.11	165	8	0.07	ND	20	0.11	1.77	ND	ND		22	603	2451	476	ND	ND	
May	7.5	63	230	161	20	61	97	3.63	181	22	ND	ND	15	0.11	1.54	ND	ND		18	578	8595	479	ND	ND	164.4
Jun	7.3	64	224	149	5	66	94	3.72	154	35	ND	ND	12	0.11	1.43	ND	ND		18	712	8882	1276	ND		
Jul	7.4	86	312	171	7	75	132	3.00	178	7	0.05	ND	20	0.15	1.79	ND	ND		24	407	11747	2491	ND		
Aug	7.5	88	313	226		78	131	3.42	234	5	0.07	ND	22	0.16	1.71	ND	ND		31	374	18384	311	ND		
Sep	7.2	73	252	226		68	107	4.01	231	27	0.06		17	0.14	1.72	ND	ND	ND	27	112	30703	2850	ND		37.5
Oct	7.2	77	278	176		59	118	2.76	203	11	ND	ND	25	0.12	2.16	ND	ND	ND	24	26	11569	3382	ND		
Nov	7.0	65	233	147			99	2.91	177	17	ND	ND	15	0.11	1.98	ND	ND	ND	22	122	10249	3650	ND		34.3
Dec	7.2	60	243	175			95	2.17	206	27	ND	ND	25	0.09	2.26	ND	ND	ND	21	84	5459	1539	ND		
Avg	7.4	_	274	175			109	3.18	193	20		ND	22	0.12		ND	ND		24	312	9610	1422	ND		187.1
Max	7.8	88	384	226	32		132	4.01	234	35	0.12		37	0.16	3.04	ND	ND	ND	31	712	30703	3650	ND		512.0
Min	7.0	50	224	134	4	38	84	2.17	154	5	ND	ND	12	0.09	1.43	ND	ND	ND	18	26	2081	81	ND	ND	34.3

																Metals	s											
	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	1706	0.9	ND	44.9	ND	ND	33	3.3	1.9	5.8	2123	2.9	2.7	9	144	ND	ND	3.8		ND	ND		78	ND	ND	ND	4.6	8.7
Feb	295	0.8	ND	36.7	ND	ND	36	0.8	ND	3.6	158	ND	2.6	9	40	ND	1.3	1.3		ND	ND		167	ND	1.6	ND	0.8	2.9
Mar	427	1.6	ND	36.3	ND	ND	24	0.9	ND	3.4	405	0.6	1.8	6	44	ND	0.5	1.8		ND	ND		103	ND	0.6	ND	0.9	2.9
Apr	188	ND	ND	36.9	ND	ND	29	ND	ND	2.9	263	0.8	1.4	6	54	ND	ND	1.3	2.1	0.5	ND	9.4	134	ND	ND	ND	0.7	2.8
May	148	ND	ND	39.8	ND	ND	28	ND	ND	2.3	125	0.5	1.9	6	45	ND	0.8	1.0		ND	ND		152	ND	ND	ND	0.8	1.2
Jun	758	ND	0.8	40.9	ND	ND	27	1.1	0.8	3.8	930	1.6	1.5	6	95	ND	ND	2.4		ND	ND		89	ND	ND	ND	2.2	4.8
Jul	214	ND	0.7	43.8	ND	ND	37	ND	ND	2.6	178	0.6	2.3	9	117	ND	0.9	1.2	2.7	0.5	ND	7.9	158	ND	ND	ND	1.0	1.9
Aug	188	ND	0.8	48.9	ND	ND	37	ND	ND	3.2	105	ND	3.0	9	179	ND	1.5	1.2		0.8	ND		198	ND	ND	ND	1.2	1.8
Sep	160	ND	0.7	44.6	ND	ND	31	ND	ND	3.2	117	ND	3.0	7	64	ND	1.7	0.9		0.7	ND		203	ND	ND	ND	1.4	1.6
Oct	385	ND	0.8	42.0	ND	ND	34	0.7	0.7	3.5	581	0.9	2.3	8	69	ND	0.5	2.2	3.2	0.5	ND	12.0	128	ND	ND	ND	1.3	6.4
Nov	131	ND	ND	17.1	ND	ND	28	ND	ND	2.6	137	ND	0.7	7	22	ND	ND	0.6		ND	ND		58	ND	ND	ND	0.5	1.8
Dec	264	ND	ND	35.8	ND	ND	27	ND	ND	2.1	203	ND	1.8	7	36	ND	0.6	1.3		ND	ND		128	ND	ND	ND	0.5	2.4
Avg	405	ND	ND	39.0	ND	ND	31	0.5	ND	3.3	444	0.7	2.1	7	76	ND	0.7	1.6	2.7	0.6	ND	9.8	133	ND	ND	ND	1.3	3.3
Max	1706	1.6	0.8	48.9	ND	ND	37	1.1	1.9	5.8	2123	2.9	3.0	9	179	ND	1.7	3.8	3.2	0.8	ND	12.0	203	ND	1.6	ND	4.6	8.7
Min	131	ND	ND	17.1	ND	ND	24	ND	ND	2.1	105	ND	0.7	6	22	ND	ND	0.6	2.1	ND	ND	7.9	58	ND	ND	ND	0.5	1.2

ppb = Parts Per Billion ppm = Parts Per Million

ND = Not Detected

WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2003)



The control of the	ك																																					
Part					Inor	ganic Ic	ons																	Meta	ıls													
Part		TOTAL AMMONIA	BROMIDE	CHLORIDE	FLUORIDE	NITRATE	NITRITE	ОКТНОРНОЅРНАТЕ	PERCHLORATE	SULFATE	ALUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	САБМІОМ	CALCIUM	CHROMIUM	COBALT	COPPER	IRON	LEAD	LITHIUM	MAGNESIUM	MANGANESE	MERCURY	MOLYBDENUM	NICKEL	POTASSIUM	SELENIUM	SILVER	SODIUM	STRONTIUM	ТНАГПОМ	THORIUM	URANIUM	VANADIUM	ZINC
No. No.					4	10	1					6	50	2000	4	5		100								2		100		50				2				
Jan Jan		Dalec	arlia \	Water	Trea	tment	Plant	Finis	hed V	Vater																												
Feb 0 88 NO 46 0.71 2.68 NO NO		ppm	ppm	ppm	ppm	ppm	ppm	ppm	ppm	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
Name Mart	Jan	0.87	ND	28	0.77	2.87	ND	ND	ND	44	32	ND	ND	32.4	ND	ND	42	0.7	ND	2.6	5.2	0.5	1.8	9	0.7	ND	ND	1.0	2.2	0.7	ND	14.0	138	ND	ND	ND	ND	0.5
Apr	Feb	0.88	ND	46	0.71	2.60	ND	ND			29	ND	ND	36.2	ND	ND	45	1.2	ND	2.7	ND	ND	2.5	8	0.7	ND	0.8	1.1		0.6	ND		178	ND	1.0	ND	0.6	1.6
May Ost NO 21 0.88 1.44 ND ND 35 35 ND ND 38.1 ND ND 35 35 ND ND 35 8.5 ND ND ND ND ND 35 8.5 ND ND ND ND ND ND ND ND 35 8.5 ND									-															6								-						
Jun 0.82	-																							6														
Jul 0.88 ND 25 0.90 1.90 ND ND ND ND 46 44 ND 0.5 40.7 ND ND 45 3.0 ND 2.0 ND ND 2.0 9 1.4 ND 1.0 0.9 3.0 0.6 ND 10.0 170 ND ND ND ND 1.4 1.1	_																							6														
Aug 9 .00 ND 26 0.35 1.62 ND ND 56 108 ND 0.6 45.9 ND ND 46 1.6 ND 2.6 123.0 ND 2.2 9 2.2 ND 1.4 1.0 0.6 ND 202 ND ND ND 1.2 1.7 Sep 1.00 ND 22 0.99 1.74 ND ND ND 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0																													- 1									
Sep																																						
Oct 1.13							ND	ND	ND	48														7		ND	1.1				ND			ND	ND			
Dec 1.03 ND 31 0.85 2.19 ND ND ND ND ND ND 37 2.6 ND ND 28.4 ND ND 36 0.9 ND 1.2 ND ND 1.2 T 7 0.6 ND 0.5 0.8 0.5 0.9 121 ND	-	1.13	ND	23	0.92	2.43	ND	ND	ND	44	32	ND	ND	39.0	ND	ND	42	1.5	ND	1.9	1.8	ND	1.5	8	0.5	ND	0.9	1.0	3.1	0.5	ND	9.9	154	ND	ND	ND	0.8	0.6
Avg	Nov	1.01	ND	17	0.89	1.85	ND	ND	ND	40	36	ND	ND	31.5	ND	ND	37	1.5	ND	2.2	5.7	ND	1.6	7	0.8	ND	1.0	1.3		0.6	ND		106	ND	ND	ND	0.7	1.5
Max Min Min	Dec	1.03	ND	31	0.85	2.19	ND	ND	ND	37	26	ND	ND	28.4	ND	ND	36	0.9	ND	1.2	ND	ND	1.2	7	0.6	ND	0.5	0.8		0.5	0.9		121	ND	ND	ND	ND	ND
McMillan Water Treatment Plant Finished Water Jan 0.87 ND 31 0.84 2.69 ND ND ND ND ND ND ND N	Avg	0.86	ND	26	0.87	1.96	ND	ND	ND	-	41		ND	36.4	ND	ND	40	1.4	ND	3.0	15.3	ND		7		ND	0.8	1.0	2.6	ND	ND	10.9	146	ND	ND		0.6	0.7
McMillan Water Treatment Plant Finished Water																								9														
Jan 0.87 ND 31 0.84 2.69 ND ND ND 43 68 ND ND 31.2 ND ND 37 1.1 ND 8.2 23.3 ND 1.5 8 0.8 ND ND 1.1 2.2 ND ND 14.0 127 ND ND ND ND ND ND ND N	Min	0.41	ND	16	0.71	1.31	ND	ND	ND	35	26	ND	ND	28.4	ND	ND	33	0.7	ND	1.2	1.8	ND	0.9	6	0.5	ND	ND	8.0	1.9	ND	ND	9.8	106	ND	ND	ND	ND	ND
Jan 0.87 ND 31 0.84 2.69 ND ND ND 43 68 ND ND 31.2 ND ND 37 1.1 ND 8.2 23.3 ND 1.5 8 0.8 ND ND 1.1 2.2 ND ND 14.0 127 ND ND ND ND ND ND ND N		McMil	lan W	ater 1	Γreatr	nent F	Plant	Finish	ed W	ater																												
Mar	Jan										68	ND	ND	31.2	ND	ND	37	1.1	ND	8.2	23.3	ND	1.5	8	0.8	ND	ND	1.1	2.2	ND	ND	14.0	127	ND	ND	ND	ND	2.6
Apr	Feb	0.87	ND	39	0.75	3.02	ND	ND		47	31	ND	ND	35.6	ND	ND	46	0.9	ND	6.2	ND	ND	2.3	8	ND	ND	0.9	1.2		0.7	ND		191	ND	1.1	ND	0.6	1.9
May	Mar	0.32	ND	38	0.75	1.90	ND	ND		40	92	ND	ND	33.8	ND	ND	33	0.6	ND	6.2	ND	ND	2.1	6	1.2	ND	ND	1.1		ND	ND		116	ND	ND	ND	ND	1.3
Jun 0.77 ND 20 0.81 1.58 ND ND ND ND ND ND ND 34.2 ND ND ND 34.1.5 ND 21.9 32.5 1.4 1.3 6 14.3 ND 0.6 1.5 ND ND ND 115 ND ND ND ND ND ND ND N	Apr	0.56	ND	23	0.87	1.70	ND	ND	ND	39	42	ND	ND	33.4	ND	ND	34	0.8	ND	3.6	ND	ND	1.1	6	0.5	ND	ND	0.9	1.8	ND	ND	8.4	121	ND	ND	ND	ND	ND
Jul 0.77 ND 24 0.95 1.70 ND ND ND ND 39.5 ND ND 41 1.8 ND 9.9 4.0 ND 1.6 9 1.0 ND 0.9 2.5 ND ND ND ND ND ND ND ND 1.2 Aug 0.89 ND 29 0.95 1.54 ND ND 54 75 ND ND 45.6 ND ND 45 1.5 ND 12.3 21.8 0.6 2.2 9 1.2 ND 1.1 1.0 0.5 ND ND ND 1.0 1.4 Sep 1.01 ND 26 0.99 1.72 ND ND ND 45.8 ND ND 40 0.6 ND 10.5 7.8 ND 2.2 8 1.5 ND 1.6 0.8 0.8 ND	May	0.68	ND	22	0.83	1.46	ND	ND		40	40	ND	ND	34.5	ND	ND	36	0.8	ND	8.6	ND	ND	1.9	7	0.5	ND	0.7	0.8		0.5	ND		144	ND	ND	ND	0.6	0.9
Aug 0.89 ND 29 0.95 1.54 ND ND 54 75 ND ND 45.6 ND ND 45 1.5 ND 12.3 21.8 0.6 2.2 9 1.2 ND 1.1 1.0 0.5 ND 186 ND ND ND ND 1.0 1.4 Sep 1.01 ND 26 0.99 1.72 ND ND ND ND 48 47 ND ND 45.8 ND ND 40 0.6 ND 10.5 7.8 ND 2.2 8 1.5 ND 1.6 0.8 0.8 ND 198 ND 0.9 ND 0.8 0.6 Ct 1.17 ND 22 0.94 2.21 ND ND ND ND 43 32 ND ND 37.5 ND ND 40 1.2 ND 8.9 3.6 ND 1.2 8 0.8 ND 0.7 1.0 3.3 ND ND 9.2 141 ND	Jun	0.77				1.58	ND				158						34	1.5		21.9			1.3	6	14.3		0.6				-			-	ND		0.7	5.2
Sep 1.01 ND 26 0.99 1.72 ND ND 48 47 ND ND 45.8 ND ND 40 0.6 ND 10.5 7.8 ND 2.2 8 1.5 ND 1.6 0.8 0.8 ND 198 ND 0.9 ND 0.8 0.6 Oct 1.17 ND 22 0.94 2.21 ND ND ND 43 32 ND ND 40 1.2 ND 3.6 ND 1.2 8 0.8 ND 0.7 1.0 3.3 ND ND 9.2 141 ND ND 0.0 0.7 2.0 Nov 1.02 ND 21 0.85 1.82 ND ND 41 85 ND ND 36 2.0 ND 8.0 60.8 0.6 1.7 7 1.2 ND 0.8 1.3 0.7	Jul	0.77	ND			1.70	ND		ND					39.5							4.0	ND		9	1.0		0.9	0.9	2.5			9.8		ND	ND		1.0	1.2
Oct 1.17 ND 22 0.94 2.21 ND ND ND ND 43 32 ND ND 37.5 ND ND 40 1.2 ND 8.9 3.6 ND 1.2 8 0.8 ND 0.7 1.0 3.3 ND ND 9.2 141 ND ND ND ND 0.7 2.0 ND 1.0 ND ND 1.0 ND	_																							9														
Nov	_																							8					- 1									
Dec 1.00 ND 20 0.83 1.83 ND ND ND ND ND 38 35 ND ND ND 30.2 ND ND ND 32 0.7 ND 4.2 ND ND ND 1.1 6 0.6 ND ND 0.9 ND 0.6 112 ND ND ND ND ND ND ND N																								8														
Avg 0.83 ND 26 0.86 1.93 ND ND ND ND ND 43 64 ND ND 36.2 ND ND ND 38 1.1 ND 9.0 12.8 ND 1.7 7 1.9 ND 0.6 1.0 2.5 ND ND 10.4 144 ND ND ND 0.5 2.0 MAX 1.17 ND 39 0.99 3.02 ND ND ND ND 54 158 ND ND 45.8 ND ND 46 2.0 ND 21.9 60.8 1.4 2.3 9 14.3 ND 1.6 1.5 3.3 0.8 0.6 14.0 198 ND 1.1 ND 1.0 5.2																								6														
Max 1.17 ND 39 0.99 3.02 ND ND ND 54 158 ND ND 45.8 ND ND 46 2.0 ND 21.9 60.8 1.4 2.3 9 14.3 ND 1.6 1.5 3.3 0.8 0.6 14.0 198 ND 1.1 ND 1.0 5.2																								7					_			-						
\ 	_																-							9														
																								6														

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

ppb = Parts Per Billion

ppm = Parts Per Million

ND = Not Detected



WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS **ANNUAL REPORT OF WATER ANALYSIS (2003)**

			Misce	llaneo	us Ph <u>y</u>	/sical F	Param	eters				Micro	organis	ms		Haload	etic A	cids (I	HAAs)	ı	Trib	nalome	ethane	s (THI	VIs)					١	/olatile	e Orga	ınic Co	mpou	ınds (\	/OCs)					
	五	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-DICHLOR OB ENZENE
EPA MCL*					4.0					0.5				Ī						60					80	5							5	100							75
				_																																					
	Dale	ppm	uS/cm	er Tre	ppm ppm		ant F	inish ppm	ed V	NTU	% +	% +	Org/mL	CFU/mL	ppb	ppb	ppb	ppb	ppb	nnh	nnh	ppb	ppb	ppb	nnh	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb
Jan	8.4			42		ppm 140	1.48			0.05	%+ 0		Org/ML	<1	ND	6.4	ppb ND	ppb ND	_{ррь} 5.2	ppb 11.6	_{ppb} 5.9	ррь 4.4	1.3	ND	ppb 11.6	ND	ppb ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ppb ND	ppb ND	ND	ND	ND
Feb	8.4				3.63	147	1.56			0.05	0	0	0	<1					J.Z		5.7	5.1	1.8	ND	12.6	ND	ND	ND		ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mar	8.5					108	1.46	173		0.04	0	0	0	<1							17.1	5.2	0.5		22.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr	8.4	65		57	3.5	119	1.41	167		0.05	0	0	0	<1	ND	9.1	ND	ND	8.7	17.8	17.2	5.3	0.7			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May	8.0	64	279	63	3.7	119	1.90	182	<1	0.05	0	0	0	<1	_		-				21.5	7.5	1.4	ND	30.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Jun	8.0	63	278	69	3.6	117	1.82	200	4	0.05	0	0	0	1							20.4	6.1	0.8	ND	27.3	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Jul	7.7	82	355	81	3.7	150	1.89	224	9	0.05	0	0	0	<1	ND	14.0	ND	ND	13.0	27.0	27.7	10.7	2.3	ND	40.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aug	7.7	83	362	83	3.7	152	2.07	272	<1	0.07	0	0	0	1							26.9	11.3	2.5	ND	40.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sep	7.7	68	308	83		133	1.92	248	<1	0.06	0	0	0	3							28.4	8.9	1.3	ND	38.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Oct	7.8			61	3.8	138	1.95	191	2	0.05	0	0	0	<1	ND	9.7	ND	ND	12.0	21.7	16.6	8.3	1.8	ND	26.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov	7.9			55		119	1.60	186		0.05	0	0	0	<1	-		-		-		15.7	6.5	0.9		23.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
											_																							1					ND	ND	ND
_																																								ND ND	ND ND
											Ť			·																									ND	ND	ND
	Dec 8.2 60 287 45 3.7 116 1.15 188 <1 0.05 0 0 0 <1 8.2 4.3 1.0 ND 13.5 ND															,																									
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Feb	8.4			36	3.7	149	1.60	229		0.04	0	0	0	<1							9.9	7.4	2.5	ND	19.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Mar	8.4			44	3.7	106	1.46	166		0.04	0	0	0	<1	_				_		15.1	6.3	1.3			ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Apr	8.4	56		55	3.6	112	1.44	148	6	0.04	0	0	0	<1	ND	12.0	ND	2.0	11.0	25.0	23.2	6.1	0.8	ND	30.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
May	8.2	61	280	63	3.6	118	1.67	171	<1	0.05	0	0	0	<1							22.6	8.3	1.5	ND	32.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Jun	8.1	52	266	68	3.6	110	1.74	193	2	0.06	0	0	0	<1							29.4	7.3	0.8	ND	37.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Jul	7.9	71	334	78	3.6	142	1.88	206	<1	0.08	0	0	8	<1	ND	20.0	ND	ND	17.0	37.0	39.9	11.5	2.0	ND	53.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Aug	7.8	75	360	79	3.7	150	2.01	256		0.07	0	0	0	<1							45.0	14.8	3.0		62.8	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Sep	7.8			79	3.7	133	1.98	248		0.06	0	0	0	1							64.7	12.9	1.5		79.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Oct	7.8				3.7	132	1.91	247		0.05	0	0	0	<1	ND	12.0	ND	2.6	13.0	27.6	23.9	9.9	2.1	ND	35.9	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Nov	8.0			52 39	3.7	119	1.89	195		0.05	0	0	0	<1	-						28.4	8.9	1.2		38.5	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Dec	8.3			39 57	3.7	106 126	1.49	172 201	1	0.04	0	0	0	<1	ND	13.2	ND	1.0	11.8	26.2	12.5 27.1	5.3	1.1	ND ND	18.9 37.4	ND ND	ND ND	ND ND	ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND ND	ND
Avg Max	8.1			57 79	3.7	150	2.01	256	1	0.05	0	0	υ g	<1 1	ND	20.0	ND ND	2.6	17.0	37.0	64.7	8.7 14.8	3.0	ND ND	79.1	ND ND	ND	ND	ND ND	ND	ND	ND	ND	ND	ND	ND	ND ND	ND	ND	ND	ND ND
Min				36	3.6	106	1.44	148		0.04	0	0	0		ND	8.9	ND	ND	6.3	15.2	9.9	5.3	0.8	ND	17.4	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
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WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2003)



S																																														
Secondary Seco																			V	olatile	Orga	nic Co	ompoi	ınds																Synth	netic C)rgani	c Com	ıpoun	ıds	
Part	EPA	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-TRIMET HYL BENZENE	TOTAL XYLENES	VINYL CHLORIDE	ACENAPHTHYLENE	ACETOCHLOR	ALACHLOR	ALDICARB	ALDICARB SULFONE	ALDICARB SULFOXIDE	ALDRIN
See	MCL*	600			5	100	70	7			5				700				5					100			5	1000		70	200	5	5				1	0,000	2			2	3	2	4	
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A												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
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 ${}^{\star}\mathsf{EPA}\;\mathsf{MCL} = \mathsf{Environmental}\;\mathsf{Protection}\;\mathsf{Agency's}\;\;\mathsf{Maximum}\;\mathsf{Contaminant}\;\mathsf{Level}\;\mathsf{for}\;\mathsf{regulated}\;\mathsf{parameters}.$

ppb = Parts Per Billion

ppm = Parts Per Million

ND = Not Detected

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	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,l)PERYLENE	BENZO(a)PYRENE	alpha-BHC	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'q,q	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	•						0.2									40			2	<u> </u>		70	200						Ш			ш				400
WICL*		0.5	0.5	0.5	0.5	0.5	U.5	0.5	3						0.2									40			2			70	200													400
	Dale	ecarl	ia W	ater -	Treat	men	t Pla	nt Fi	nish	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
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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

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EPA	di-(2-ЕТНҮLHEXYL)РНТНАLATE	DIMETHOATE	DIMETHYLPHTHALATE	DI-N-BUTYLPHTHALATE	2,6-DINITROTOLUENE	2,4-DINITROTOLUENE	DIQUAT	ENDOTHALL	ENDRIN	EPTC	FLUORANTHENE	FLUORENE	GLYPHOSATE	HEPTACHLOR	HEPTACHLOR EPOXIDE	HEXACHLOROBENZENE	HEXACHLOROCYCLOPENTADIENE	INDENO(1,2,3,c,d)PYRENE	ISOPHORONE	LINDANE	METHIOCARB	METHOMYL	METHOXYCHLOR	METOLACHLOR	METRIBUZIN	MOLINATE	trans-NONACHLOR	OXAMYL	PARAQUAT	PENTACHLOROPHENOL	PHENANTHRENE	PICLORAM	PROMETRYN	PROPACHLOR	PYRENE	SIMAZINE	TERBACIL	THIOBENCARB	TRIFLURALIN	TOXAPHENE 24 5-TP (SII VEX)	DIBROMOCHLOROPROPANE (DBCP)	ETHELYNE DIBROMIDE (EDB)	CYANIDE	DIOXIN	PERCHLORATE
MCL*	6				-		20						700	0.4	0.2	1	50			0.2			40					200		1		500				4				3 5) 0.2	2 50	0.2	30	
	Dale	carl	ia Wa	ppb	Trea	tment	Plant	Finis	ppb	Wate	ppb	ppb	ppb	ppb	ppb	ppb	ppb pp	b ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	pb	ppb	ppb	ppb	ppb	ppb pp	ob ppt	b ppt	ppm	pg/L	ppm
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EPA MCL = Environmental Protection Agency's Maximum Contaminant Level for regulated parameters

ppb = Parts Per Billion

ppm = Parts Per Millio

ND = Not Detected