

Washington Aqueduct

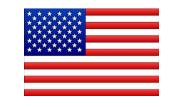
U.S. ARMY Corps of Engineers

Annual Report of Water Analysis 2007

Prepared by:

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







Potomac River Raw Water Supply

			Mis	cellane	ous Phy	/sical F	aramet	ers							Inorgar	nic lons							Microo	rganisms		
	нф	ALKALINITY	CONDUCTIVITY	DISSOLVED SOLIDS	SUSPENDED SOLIDS	TEMPERATURE	TOTAL HARDNESS	TOTAL ORG. CARBON	TOTAL SOLIDS	TURBIDITY	TOTAL AMMONIA	BROMIDE	CHLORIDE	FLUORIDE	IODIDE	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	ppb	ppm	ppm	ppm	ppb	ppm	org/mL	MPN/100mL	MPN/100mL	cysts/L	oocysts/L	MPN/100L
Jan	7.9	77	285	187	7	45	109	2.21	194	13	ND	ND	21	0.09	4.4	2.26	ND	0.09	ND	23	232	4093	184	ND	ND	10.6
Feb	8.2	92	366	222	5	39	132	2.58	227	17	0.05	ND	50	0.14		2.29	ND	0.12	ND	29	197	5999	41	ND	ND	
Mar	7.4	62	270	141	21	50	88	3.07	162	26	0.07	ND	23	0.08		1.84	ND	0.08	ND	21	200	3697	136	ND	ND	
Apr	7.7	70	293	181	14	55	96	3.09	195	46	ND	ND	19	0.08	4.7	1.65	0.02	0.33	ND	22	208	4286	326	ND	ND	
May	7.9	97	338	173	13	69	126	2.39	186	5	ND	ND	24	0.10		1.61	ND	0.11	ND	30	156	3205	15	ND	ND	1.1
Jun	7.9	105	348	212	7	79	134	2.63	219	4	ND	ND	24	0.13		1.02	0.02	0.15	ND	33	184	8323	75	ND	ND	
Jul	8.2	106	371	246	11	81	140	3.11	257	2	ND	ND	26	0.14	4.8	0.43	ND	0.05	ND	40	201	8915	6	ND	ND	
Aug	8.2	100	394	226	3	80	145	3.53	229	4	0.05	ND	28	0.15		0.43	ND	0.13	1.8	51	299	8838	32	ND	ND	
Sep	8.4	97	348	226	0	76	137	3.28	226	2	ND	ND	25	0.15		0.42	ND	0.33	ND	40	224	3337	30	ND	ND	3.5
Oct	8.3	109	423	243	1	68	152	4.24	244	2	ND	ND	31	0.16	5.0	0.42	ND	0.08	2.4	53	138	4678	92	ND	ND	
Nov	8.3	121	423	237	0	54	166	3.40	237	1	ND	ND	29	0.13		1.14	ND	0.08	0.7	49	128	441	24	ND	ND	
Dec	8.0	90	386	222	4	44	146	3.46	226	18	0.05	ND	34	0.13		1.99	ND	0.10	ND	36	363	2189	365	ND	ND	161.6
Avg	8.0	94	354	210	7	61	131	3.08	217	12	ND	ND	28	0.12	4.7	1.29	ND	0.14	ND	35	211	4833	111	ND	ND	44.2
Max	8.4	121	423	246	21	81	166	4.24	257	46	0.07	ND	50	0.16	5.0	2.29	0.02	0.33	2.4	53	363	8915	365	ND	ND	161.6
Min	7.4	62	270	141	0	39	88	2.21	162	1	ND	ND	19	0.08	4.4	0.42	ND	0.05	ND	21	128	441	6	ND	ND	1.1

															Me	etals												
	АLUMINUM	ANTIMONY	ARSENIC	BARIUM	BERYLLIUM	САБМІИМ	САLСІИМ	СНКОМІИМ	COBALT	COPPER	IRON	LEAD	ГІТНІОМ	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	671	ND	0.5	28.9	ND	ND	31	0.6	ND	2.9	346	ND	1.3	7	31	ND	ND	1.6	2.1	ND	ND	14.0	107	ND	ND	ND	1.0	2.7
Feb	354	ND	ND	31.0	ND	ND	37	ND	ND	1.6	113	ND	2.4	4	29	ND	0.8	1.7		ND	ND		191	ND	ND	ND	ND	2.6
Mar	687	ND	0.6	37.6	ND	ND	24	1.0	0.7	2.5	818	1.0	2.3	7	49	ND	ND	2.7		ND	ND		100	ND	ND	ND	1.2	5.4
Apr	195	ND	ND	33.2	ND	ND	28	1.7	ND	1.2	137	ND	2.0	6	58	ND	0.6	1.6	2.0	ND	ND	9.3	149	ND	ND	ND	1.0	2.0
May	144	ND	ND	40.3	ND	ND	36	ND	ND	2.2	191	0.5	2.0	9	57	ND	0.5	1.7		ND	ND		154	ND	ND	ND	0.9	3.1
Jun	758	ND	0.9	52.7	ND	ND	37	0.9	0.7	3.7	605	0.7	3.3	10	150	ND	0.7	2.9		ND	ND		219	ND	ND	ND	1.6	5.0
Jul	211	ND	8.0	47.5	ND	ND	36	ND	ND	2.3	121	ND	4.2	12	58	ND	1.6	2.2	2.9	ND	ND	15.0	249	ND	ND	ND	1.2	1.7
Aug	198	ND	1.0	44.5	ND	ND	39	ND	ND	3.0	103	ND	3.3	12	127	ND	1.7	2.2		ND	ND		227	ND	ND	ND	1.5	2.0
Sep	264	ND	1.1	40.7	ND	ND	36	ND	ND	2.0	80	ND	3.7	12	131	ND	1.6	1.9		ND	ND		210	ND	ND	ND	1.6	2.2
Oct	351	ND	8.0	45.7	ND	ND	38	2.2	ND	1.7	47	ND	5.4	14	28	ND	1.9	1.9	4.3	ND	ND	23.0	272	ND	ND	ND	1.5	1.6
Nov	2389	ND	0.7	63.8	ND	ND	48	1.4	ND	2.6	126	1.2	7.5	11	34	ND	1.9	3.0		ND	ND		311	ND	ND	ND	1.4	58.0
Dec	382	ND	ND	39.7	ND	ND	43	ND	ND	2.0	70	ND	2.9	10	35	ND	1.3	2.1		ND	ND		238	ND	ND	ND	ND	5.04
Avg	550	ND	0.5	42.1	ND	ND	36	0.7	ND	2.3	230	ND	3.4	10	65	ND	1.0	2.1	2.8	ND	ND	15.3	202	ND	ND	ND	1.1	7.6
Max	2389	ND	1.1	63.8	ND	ND	48	2.2	0.7	3.7	818	1.2	7.5	14	150	ND	1.9	3.0	4.3	ND	ND	23.0	311	ND	ND	ND	1.6	58.0
Min	144	ND	ND	28.9	ND	ND	24	ND	ND	1.2	47	ND	1.3	4	28	ND	ND	1.6	2.0	ND	ND	9.3	100	ND	ND	ND	ND	1.6

ppb = Parts Per Billion ppm = Parts Per Million ND = Not Detected "----" = No Analysis Required

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					Inorgan	nic lons	<u> </u>																	Met	tals													\neg
	TOTAL AMMONIA	BROMIDE	CHLORIDE	FLUORIDE	IODIDE	NITRATE	NITRITE	ORTHOPHOSPHATE as PO4	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	THALLIUM	THORIUM	URANIUM	VANADIUM	ZINC
EPA MCL*				4		10	1					6	10	2000	4	5		100								2				50				2				
	Daled	arlia	Wate	r Trea	tment	Plant	Finis	hed V	Vater																													
	ppm	ppm	ppm	ppm	ppb	ppm	ppm	ppm	ppb	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	0.78	ND	23	0.79	7.8	2.20	ND	2.46	ND	40	36	ND	ND	26	ND	ND	39	0.9	ND	0.8	7.7	ND	1.9	8	0.7	ND	ND	1.4	2.2	ND	ND	14.0	106	ND	ND	ND	ND	0.8
Feb	0.79	ND	41	0.74		2.51	ND	2.58	ND	44	28	ND	ND	32	ND	ND	42	1.7	ND	3.0	ND	ND	1.8	10	0.5	ND	8.0	1.8		ND	ND		195	ND	ND	ND	0.6	3.4
Mar	0.74	ND	34	0.50		1.80	ND	2.44	ND	38	50	ND	ND	30	ND	ND	32	0.7	ND	0.6	13.7	ND	1.7	7	0.9	ND	ND	1.7		ND	ND		101	ND	ND	ND	ND	1.4
Apr	0.23	ND	26	0.80	2.5	1.77	ND	2.42	ND	37	19	ND	ND	33	ND	ND	38	1.5	ND	1.0	ND	ND	1.4	7	0.7	ND	0.6	1.6	2.0	ND	ND	8.6	154	ND	ND	ND	0.7	1.2
May	0.66	ND	28	0.84		1.61	ND	2.45	ND	45	33	ND	ND	39	ND	ND	44	2.4	ND	1.7	15.2	ND	1.7	9	1.1	ND	0.6	1.5		0.5	ND		155	ND	ND	ND	1.1	1.0
Jun	0.88	ND	30	0.95		1.07	ND	2.48	ND	52	61	ND	0.5	46	ND	ND	47	1.9	ND	1.2	11.8	ND	2.8	10	1.0	ND	ND	2.0		0.6	ND		214	ND	ND	ND	1.1	0.6
Jul	0.89	ND	32	0.99	6.0	0.43	ND	2.49	ND	60	62	ND	0.5	43	ND	ND	46	2.7	ND	1.3	13.1	ND	3.3	12	3.0	ND	1.5	2.1	3.4	0.6	ND	19.0	230	ND	ND	ND	1.6	0.9
Aug	0.89	ND	34	0.95		0.46	ND	2.47	1.7	70	68	ND	ND	44	ND	ND	48	0.9	ND	1.5	7.3	ND	4.1	12	1.9	ND	1.8	2.6		ND	ND		232	ND	ND	ND	1.1	1.6
Sep	0.77	ND	30	0.88		0.51	ND	2.18	ND	63	48	ND	0.5	38	ND	ND	45	1.8	ND	1.3	10.0	ND	4.0	12	1.5	ND	1.6	1.9		0.7	ND		209	ND	ND	ND	1.5	ND
Oct	0.76	ND	35	0.90	5.5	0.30	ND	2.51	1.0	74	82	ND	0.5	42	ND	ND	47	2.1	ND	1.1	2.3	ND	5.1	6	1.3	ND	1.8	1.8	4.3	0.7	ND	22.0	259	ND	ND	ND	1.1	1.5
Nov	0.75	ND	34	0.87		1.14	ND	2.57	ND	72	472	ND	ND	47	ND	ND	56	2.1	ND	1.6	13.6	ND	3.6	11	1.1	ND	1.8	2.7		0.5	ND		297	ND	ND	ND	1.0	14.1
Dec	0.76	ND	38	0.79		1.89	ND	2.40	ND	55	44	ND	ND	35	ND	ND	50	2.0	ND	1.4	10.9	ND	2.8	9	1.0	ND	1.4	2.3		ND	ND		248	ND	ND	ND	0.7	2.7
Avg	0.74	ND	32	0.83	5.5	1.31	ND	2.45	ND	54	84	ND	ND	38	ND	ND	44	1.7	ND	1.4	8.8	ND	2.8	9	1.2	ND	1.0	1.9	3.0	ND	ND	15.9	200	ND	ND	ND	0.9	2.4
Max	0.89	ND	41	0.99	7.8	2.51	ND	2.58	1.7	74	472	ND	0.5	47	ND	ND	56	2.7	ND	3.0	15.2	ND	5.1	12	3.0	ND	1.8	2.7	4.3	0.7	ND	22.0	297	ND	ND	ND	1.6	14.1
Min	0.23	ND	23	0.50	2.5	0.30	ND	2.18	ND	37	19	ND	ND	26	ND	ND	32	0.7	ND	0.6	ND	ND	1.4	6	0.5	ND	ND	1.4	2.0	ND	ND	8.6	101	ND	ND	ND	ND	ND
	McMi	illan V	Vater '	Treatr	nent F	Plant l	Finish	ned Wa	ater																													
Jan	0.81	ND	23	0.75	9.2	2.09	ND	2.41	ND	43	47	ND	ND	29	ND	ND	37	ND	ND	3.5	12	ND	1.7	7	0.6	ND	0.5	1.9	2.2	ND	ND	11.0	134	ND	ND	ND	ND	1.3
Feb	0.82	ND	38	0.81	-	2.61	ND	2.50	ND	46	18	ND	ND	32	ND	ND	38	1.5	ND	2.1	6.7	ND	1.3	9	ND	ND	0.7	1.6		ND	ND		175	ND	ND	ND	0.5	1.5
Mar	0.85	ND	40	0.64	-	1.85	ND	2.25	ND	40	44	ND	ND	32	ND	ND	31	1.2	ND	3.1	ND	ND	2.5	8	0.6	ND	8.0	2.0	-	0.6	ND	-	202	ND	ND	ND	0.5	2.2
Apr	0.23	ND	27	0.66	4.6	1.70	ND	2.30	ND	38	27	ND	ND	30	ND	ND	32	0.6	ND	2.0	5.9	ND	1.5	7	0.6	ND	ND	1.5	2.3	ND	ND	12.0	124	ND	ND	ND	ND	0.7
May	0.62	ND	28	0.89		1.54	ND	2.30	ND	44	30	ND	ND	36	ND	ND	37	1.6	ND	3.9	4.6	ND	1.7	8	ND	ND	0.5	1.4		0.5	ND		132	ND	ND	ND	0.7	0.6
Jun	0.75	ND	31	0.93		1.07	ND	2.32	ND	51	59	ND	0.5	47	ND	ND	44	2.0	ND	6.7	225	ND	2.1	10	1.8	ND	ND	2.7		0.7	ND		210	ND	ND	ND	1.0	0.8
Jul	0.83	ND	33	0.97	4.9	0.47	ND	2.31	ND	59	54	ND	ND	44	ND	ND	43	0.6	ND	6.1	10	ND	2.8	11	1.6	ND	1.5	1.9	3.3	0.5	ND	19.0	221	ND	ND	ND	0.8	ND
Aug	0.84	ND	35	0.92		0.35	ND	2.27	ND	67	67	ND	0.5	43	ND	ND	43	1.9	ND	7.6	13	ND	3.7	12	2.3	ND	1.7	2.0		0.6	ND	1	236	ND	ND	ND	1.0	ND
Sep	0.79	ND	31	0.84		0.57	ND	2.36	ND	63	52	ND	0.5	44	ND	ND	42	2.4	ND	8.7	22	ND	3.6	11	2.3	ND	1.6	2.1		0.8	ND	1	231	ND	ND	ND	1.2	ND
Oct	0.78	ND	35	0.85	6.9	0.27	ND	2.23	1.1	72	59	ND	0.5	44	ND	ND	43	2.4	ND	10.3	27	ND	4.1	13	1.4	ND	1.9	2.3	3.9	0.7	ND	21.0	270	ND	ND	ND	1.0	ND
Nov**						-			-	-	I				-	-		-		-	I		I					I				-				-		
Dec	0.71	ND	41	0.76		1.64	ND	2.28	ND	59	21	ND	0.5	37	ND	ND	48	3.3	ND	9.5	ND	ND	2.2	12	1.2	ND	1.7	2.4		0.6	ND		241	ND	ND	ND	1.2	ND
Avg	0.73	ND	33	0.82	6.4	1.29	ND	2.32	ND	53	43	ND	ND	38	ND	ND	40	1.6	ND	5.8	30	ND	2.5	10	1.1	ND	1.0	2.0	2.9	ND	ND	15.8	198	ND	ND	ND	0.7	0.6
Max	0.85	ND	41	0.97	9.2	2.61	ND	2.50	1.1	72	67	ND	0.5	47	ND	ND	48	3.3	ND	10.3	225	ND	4.1	13	2.3	ND	1.9	2.7	3.9	8.0	ND	21.0	270	ND	ND	ND	1.2	2.2
Min	0.23	ND	23	0.64	4.6	0.27	ND	2.23	ND	38	18	ND	ND	29	ND	ND	31	ND	ND	2.0	ND	ND	1.3	7	ND	ND	ND	1.4	2.2	ND	ND	11.0	124	ND	ND	ND	ND	ND

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

** McMillan Water Treatment Plant was out of service November 1, 2007 through December 17, 2007

ppb = Parts Per Billion

ppm = Parts Per Million

ND = Not Detected

"----" = No Analysis Required



			Mis	cellan	eous P	hysica	al Para	meters	s			М	licroo	rganisr	ns		Halo	acetic	Acids	(HAAs)	,	rihalo	metha	nes (1	ГНМѕ	s)				1		Volat	ile Org	janic (Compo	unds	(voc	s)			1	
EPA	చ	ALKALINITY	СОМБИСПУПУ	TEMPERATURE	TOTAL CHLORINE	TOTAL HARDNESS	TOTAL ORG. CARBON	TOTAL DISSOLVED SOLIDS	TOTAL SUSPENDED SOLIDS	IRBIDITY (Avers	(affine and a second	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*										0.	.3																	5							5	100							75
	Dale	carlia	a Wat	er Tr	eatme	ent Pl	lant F	inish	ed W	/ater																																	

		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	7.7	74	314	50	3.8	128	1.37	221	1	0.05	0	0	0	<1	ND	11.3	ND	2.2	12.1	25.6	9.1	3.1	0.6	ND	12.8	ND															
Feb	7.7	87	394	42	3.9	146	1.49	220	ND	0.06	0	0	0	<1	-		-	-	1	1	5.2	3.4	1.0	ND	9.6	ND															
Mar	7.7	56	299	52	3.6	109	1.56	161	1	0.06	0	0	0	1	-		-			-	17.0	3.9	ND	ND	20.9	ND															
Apr	7.7	67	317	57	3.7	122	1.40	199	ND	0.06	0	0	2	<1	ND	8.1	ND	1.9	7.9	17.9	17.0	4.9	0.7	ND	22.6	ND															
May	7.7	89	379	72	3.6	144	1.54	212	1	0.07	0	0	0	1	-		-			-	24.0	7.1	1.0	ND	32.1	ND															
Jun	7.7	101	408	81	3.6	160	1.80	251	ND	0.07	0	0	0	2			-		-	-	26.7	7.5	1.0	ND	35.2	ND															
Jul	7.7	100	422	82	3.6	164	1.94	290	1	0.08	0	0	0	4	ND	17.1	ND	3.2	15.4	35.7	34.0	10.0	1.5	ND	45.5	ND															
Aug	7.7	93	443	82	3.7	171	2.09	268	ND	0.07	0	0	2	19			-				37.0	12.0	1.9	ND	50.9	ND															
Sep	7.7	89	410	77	3.6	160	1.94	245	ND	0.05	0	0	0	26							37.0	10.0	1.5	ND	48.5	ND															
Oct	7.7	98	476	70	3.7	175	1.95	277	ND	0.06	0	0	16	9	ND	12.1	ND	1.8	12.4	26.3	26.0	9.1	1.2	ND	36.3	ND															
Nov	7.7	110	483	55	3.8	184	2.10	243	ND	0.05	0	0	0	2							25.0	7.6	0.9	ND	33.5	ND															
Dec	7.7	89	432	47	3.7	161	1.95	248	ND	0.06	0	0	0	<1							10.0	4.3	0.6	ND	14.9	ND															
Avg	7.7	88	398	64	3.7	152	1.76	236	ND	0.06	0	0	2	5	ND	12.2	ND	2.3	12.0	26.4	22.3	6.9	1.0	ND	30.2	ND															
Max	7.7	110	483	82	3.9	184	2.10	290	1	0.08	0	0	16	26	ND	17.1	ND	3.2	15.4	35.7	37.0	12.0	1.9	ND	50.9	ND															
Min	7.7	56	299	42	3.6	109	1.37	161	ND	0.05	0	0	0	<1	ND	8.1	ND	1.8	7.9	17.9	5.2	3.1	ND	ND	9.6	ND															

McMillan Water Treatment Plant Finished Water

	IVICIVI	illan	wate	rirea	atmer	nt Pia	nt Fin	isnea	vvate	er																															
Jan	7.7	62	303	52	3.7	120	1.57	196	2	0.02	0	0	0	2	ND	9.2	ND	2.0	8.6	19.8	9.9	3.9	0.7	ND	14.5	ND															
Feb	7.7	84	402	47	3.7	134	1.25	210	ND	0.02	0	0	0	3			-		-		5.9	3.6	1.0	ND	10.5	ND															
Mar	7.7	52	288	50	3.7	108	1.82	201	ND	0.03	0	0	0	4					1	-	16.0	6.1	1.2	ND	23.3	ND															
Apr	7.7	56	303	55	3.7	108	1.41	182	ND	0.03	0	0	5	2	ND	9.9	ND	1.9	10.0	21.8	21.0	6.2	1.0	ND	28.2	ND															
May	7.8	74	355	64	3.7	128	1.46	177	1	0.05	0	0	5	16	-	-	-	-	ı	-	29.0	7.6	1.0	ND	37.6	ND															
Jun	7.7	89	394	73	3.7	151	1.66	254	ND	0.06	0	0	0	58			-		-		38.0	10.0	1.5	ND	49.5	ND															
Jul	7.7	90	408	77	3.7	154	1.74	275	ND	0.07	0	0	0	90	ND	20.8	ND	3.4	15.4	39.6	42.0	12.0	2.2	ND	56.2	ND															
Aug	7.7	85	421	79	3.7	157	1.99	289	ND	0.06	0	0	2	487			-		-		56.0	15.0	3.1	ND	74.1	ND															
Sep	7.7	79	395	77	3.7	150	2.05	237	ND	0.05	0	0	6	506	-			-	-		59.0	14.0	1.9	ND	74.9	ND															
Oct	7.7	86	431	73	3.7	161	1.92	271	ND	0.05	0	0	0	66	ND	15.2	ND	2.2	11.7	29.1	38.0	12.0	1.9	ND	51.9	ND															
Nov**			-		-						-				-			-	-						-		-	-	-					-		-	-	-			
Dec	7.7	74	418	56	3.7	171	2.12	203	ND	0.04	0	0	0	30	-			-	-						-		-	-	-					-		-	-	-			
Avg	7.7	75	374	64	3.7	140	1.73	227	ND	0.04	0	0	2	115	ND	13.8	ND	2.4	11.4	27.6	31.5	9.0	1.6	ND	42.1	ND															
Max	7.8	90	431	79	3.7	171	2.12	289	2	0.07	0	0	6	506	ND	20.8	ND	3.4	15.4	39.6	59.0	15.0	3.1	ND	74.9	ND															
Min	7.7	52	288	47	3.7	108	1.25	177	ND	0.02	0	0	0	2	ND	9.2	ND	1.9	8.6	19.8	5.9	3.6	0.7	ND	10.5	ND															

^{*}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

^{**} McMillan Water Treatment Plant was out of service November 1, 2007 through December 17, 2007



			1	1						1				1			١	olatil	e Orga	anic C	ompo	unds	1	1					1		1	1				1		1	Syn	thetic	Organ	nic Cor	mpoun	ıds
	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	AL DICARB SULFOXIDE
EPA MCL*	600			5	100	70	7			5				700				5					100			5	1000		70	200	5	5				[10,000	2			2	3	2	4
	Dale	carli	a Wa	ter Tr	eatm	ent F	Plant	Finis	hed	Wate	r																																	
	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
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						
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						
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	ND	ND	ND	ND	ND	ND	ND	ND	ND	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						
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
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						
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			
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
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						
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						
Avg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Max	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
Min	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
	McN	lillan	Wate	er Tre	atme	ent Pl	ant F	inist	ned V	Vater																																		
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
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						
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ALDRIN ALDRIN ALDRIN ANTHRACE AROCHLOR AROCHLOR AROCHLOR AROCHLOR AROCHLOR AROCHLOR AROCHLOR AROCHLOR BENZO(a)PYI BENZO(a)PYI BENZO(a)ANTHI BENZO(a)ANTHI BENZO(a)ANTHI BENZO(a)ANTHI BENZO(a)ANTHI BENZO(a)ANTHI BENZO(a)ANTHI BENZO(a)ANTHI CARBOFUS CARBOFUS BENZO(a)ANTHI BENZO(a)ANTHI BENZO(a)ANTHI CARBOFUS CA		N.	1016	1221	1232	1	1242	1248	1254	1260				z	ACENE	ANTHENE	RYLENE	RENE	ATHENE						Organ	HTHALATE 20	npoun	ds J	AN	DANE	RDANE	E P	(DURSBAN)	ILATE	8	ONIL	<u> </u>		z		DEGRADATE				IRACENE		ZOIC ACID
EPA	'A	Ϋ́	붐	불	CHLOF				OCH.	OCHL	ATRA	: 1	BAYGON	₹	20	NZO	NZO(g,h	ENZO(a)PY	ZO(K)FLUO	-Fa	eta-l	detta-BH	! :	SOMAC	TACHL	TYLBENZYLP	CAFFEIN	AR	CARBOFUR	alpha-CHLOR	атта-СНГО	CHLORDA	YRIFOS	LOR	CHLORON	呈	₩ K	4	DALAPO	2,4-DB	DCPA MONO & DIACID	QQQ,d'd	p,p'DDE	TQQ'q,q	IBENZ(a,h	DICAMB	3.5-DICHLOROBENZO

Dalecarlia Water Treatment Plant Finished Water

	Dale	carlia	a wat	er ire	eatme	ent Pi	ant F	ınısn	iea 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
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
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
May				-												-																				-			-					
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
Aug																								-	-	-					-													
Sep	ND	ND								0.5			ND			ND	ND		ND	ND	ND	ND	ND					ND	ND	ND	ND													
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Nov						-																		-	-	-			-		-													
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McMillan Water Treatment Plant Finished Water

	IAICIAI	illall v	vvale	1166	ıtımcı	it i ia		1113116	uvic	ILCI																																		
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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	1.1	ND							
May				-																-		-					-				-				-							-		
Jun													-					-	-																		-	I		-	-			
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
Aug													-					-	-																		-	I		-	-			
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Jan Feb Mar Apr May

Jul
Aug
Sep
Oct
Nov
Dec
Avg
Max
Min

WASHINGTON AQUEDUCT, US ARMY CORPS OF ENGINEERS ANNUAL REPORT OF WATER ANALYSIS (2007)

DICHLORPROP DICHLORYOS (DDVP) DIMETHYLPHTHALATE DI-N-GCTYLPHTHALATE NACHICRORE REDOSULFAN II (alpha) ENDOSULFAN II (alpha) METHORYCHLOR METHORYCH METHORYCHOR METHORYCH METHORYCH METHORYCH METHORYCH METHORYCH METHOR																				Synt	hetic C	rganio	Comp	ound	S																		
MCL* 400 6 7 20 100 2 700 0.4 0.2 1 50 0.2 40 200	Α	CHLORVOS (DDV	ELDRIN	DIETHYLPHTHALATE	di-(2-ETHYLHEXYL)ADIPA	di-(2-ЕТНҮ LHEXYL)РНТНАLAT	DIMETHOATE	МЕТНҮСРНТНАСАТ	-N-BUTYLPHTHAL,	DI-N-OCTYLPHTHALATE	6-DINITROTOLUE	4-DINITROTOLUE	SC	DIQU	ENDOTE	END	NDRIN ALDEHYD	Ē	UORANTHEN	Z	GLYPHOSATI	HEPTACHL	HEPTACHLOR EPOXID	хаснсово	HEXACHLOROCYCLOPENTADIEN	-HYDROXYCARBOFUR	ENO(1,2,3,c,d)PYRE	HORON	LINDANE	OSULFAN I (alph	NDOSULFAN II (beta	OSULFAN SULFAT	MALATHION	METHIOCARB	METHOMYL	METHOXYCHL	TOLACHL	TRIBU	- ≤	trans-NONACHLOR	0	RAQU	PARATHION

Dalecarlia Water Treatment Plant Finished Water

	ppb	ppb	ppb	ppb	ppb	ppb	ppb																																				
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McMillan Water Treatment Plant Finished Water

Jan	ND	ND	ND	ND	ND	ND	ND																																				
Feb			-	-			-																												-								
Mar			-	-			-																												-								
Apr	ND	ND	ND	ND	ND	ND	ND																																				
May				-																																							
Jun				-			-									-	-	-			-												-										
Jul	ND	ND	ND	ND	ND	ND	ND																																				
Aug				-			-									-	-	-			-												-										
Sep		ND				ND	ND	ND	ND	ND		ND	ND	ND	ND		ND			ND	0.07	ND	ND	ND			ND																
Oct	ND	ND	ND	ND	ND	ND	ND																																				
Nov**				-															-																								
Dec							-											-																									
Avg	ND	ND	ND	ND	ND	ND	ND																																				
Max	ND	0.07	ND	ND	ND	ND	ND	ND																																			
Min	ND	ND	ND	ND	ND	ND	ND																																				

^{*}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

^{**} McMillan Water Treatment Plant was out of service November 1, 2007 through December 17, 2007



		Synthetic Organic Compounds														Miscellaneous						
	PENDIMETHALIN	PERMITHRIN	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	DIOXIN	N-nitrosodymethylamine (NDMA)		
PA CL*			1		500			4					3		50	0.2	50	0.2	30			
	Daleca	arlia W	ater T	reatme	nt Plai	nt Finis	shed W	ater														
	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppb	ppt	ppm	pg/L	pp		
an	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	ND	N		
eb																						
ar																						
pr	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	N		
lay																						
un																						
ul	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.		
ug	ND	ND	ND	ND		ND	ND	0.2	ND	ND	ND	ND										
ер				+																		
ot lov	ND 	ND 	ND 	ND 	ND 	ND 	ND 	ND 	ND 	ND 	ND 	ND 	ND 	ND 	ND 	ND 	ND 	ND 	ND 	2.		
ec																						
lvg	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NI		
lax	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.03	ND	2.5		
/lin	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NI		
an	McMil ND	lan Wa	nter Tro	eatmer	ND	t Finisi	ned Wa	nter ND	ND	ND 	ND 	ND 	ND	ND 	ND	ND	ND	ND 	ND 	NI 		
eb Iar																						
pr	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NI		
lav																						
un																						
ul	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.		
ug																				-		
Бер	ND	ND	ND	ND		ND	ND	0.2	ND	ND	ND	ND										
ct	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NI		
lov**																						
ес	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	NI		
Dec Avg								1					ND	ND	ND	ND	ND	I	1	١ .		
	ND	ND	ND	ND	ND	ND	ND	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	2.4		

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

ppb = Parts Per Billion

ppm = Parts Per Million

ppt = Parts Per Trillion

ND = Not Detected

"----" = No Analysis Required

** McMillan Water Treatment Plant was out of service November 1, 2007 through December 17, 2007