

**SOUTHINGTON WATER DEPARTMENT
CURRENT WATER SAMPLE RESULTS
2019**

PARAMETER SUBSTANCES	SOURCE OF STANDARD	UNITS STANDARD	SOURCES						RES.	DIST. SYS.
			WELL 1A	WELL 2	WELL 3	WELL 7A	WELL 8	WELL 9		
PESTICIDES 2019 (2 routines tri-annually)										
ALACHLOR	MCL	mg/L 0.002	ND	ND	ND	ND	ND	ND	ND	NR
ALDICARB	MCL	mg/L 0.003	ND	ND	ND	ND	ND	ND	ND	NR
ALDICARB SULFOXIDE	MCL	mg/L 0.004	ND	ND	ND	ND	ND	ND	ND	NR
ALDICARB SULFONE	MCL	mg/L 0.003	ND	ND	ND	ND	ND	ND	ND	NR
ALDRIN	NE	mg/L	ND	ND	ND	ND	ND	ND	ND	NR
ATRAZINE	MCL	mg/L 0.003	ND	ND	ND	ND	ND	ND	ND	NR
BENZO(A)PYRENE	MCL	mg/L 0.0002	ND	ND	ND	ND	ND	ND	ND	NR
BUTACHLOR	NE	mg/L	ND	ND	ND	ND	ND	ND	ND	NR
CARBARYL	NE	mg/L	ND	ND	ND	ND	ND	ND	ND	NR
CARBOFURAN	MCL	mg/L 0.004	ND	ND	ND	ND	ND	ND	ND	NR
CHLORDANE	MCL	mg/L 0.002	ND	ND	ND	ND	ND	ND	ND	NR
DALAPON	MCL	mg/L 0.2	ND	ND	ND	ND	ND	ND	ND	NR
DI(2-ETHYLHEXYL) ADIPATE	MCL	mg/L 0.4	ND	ND	ND	ND	ND	ND	ND	NR
DI(2-ETHYLHEXYL) PHTHALATES	MCL	mg/L 0.006	ND	ND	ND	ND	ND	ND	ND	NR
DICAMBA	NE	mg/L	ND	ND	ND	ND	ND	ND	ND	NR
DIELDRIN	NE	mg/L	ND	ND	ND	ND	ND	ND	ND	NR
DINOSEB	MCL	mg/L 0.007	ND	ND	ND	ND	ND	ND	ND	NR
DIQUAT	MCL	mg/L 0.02	ND	ND	ND	ND	ND	ND	ND	NR
DIBROMOCHLOROPANE (DBCP)	MCL	mg/L 0.0002	ND	ND	ND	ND	ND	ND	ND	NR
2,4-D	MCL	mg/L 0.07	ND	ND	ND	ND	ND	ND	ND	NR
ETHYLENE DIBROMIDE (EDB)	MCL	mg/L 0.00005	ND	ND	ND	ND	ND	ND	ND	NR
ENDRIN	MCL	mg/L 0.002	ND	ND	ND	ND	ND	ND	ND	NR
ENDOTHALL	MCL	mg/L 0.1	ND	ND	ND	ND	ND	ND	ND	NR
GLYPHOSATE	MCL	mg/L 0.7	ND	ND	ND	ND	ND	ND	ND	NR
HEPTACHLOR	MCL	mg/L 0.0004	ND	ND	ND	ND	ND	ND	ND	NR
HEPTACHLOR EPOXIDE	MCL	mg/L 0.0002	ND	ND	ND	ND	ND	ND	ND	NR
HEXACHLOROBENZENE	MCL	mg/L 0.001	ND	ND	ND	ND	ND	ND	ND	NR
HEXACHLOROCYCLOPENTADIENE	MCL	mg/L 0.05	ND	ND	ND	ND	ND	ND	ND	NR
3-HYDRXYCARBOFURAN	NE	mg/L	ND	ND	ND	ND	ND	ND	ND	NR
LINDANE	MCL	mg/L 0.0002	ND	ND	ND	ND	ND	ND	ND	NR
METHOXYCHLOR	MCL	mg/L 0.04	ND	ND	ND	ND	ND	ND	ND	NR
METHOMYL	NE	mg/L	ND	ND	ND	ND	ND	ND	ND	NR
METOLACHLOR	NE	mg/L	ND	ND	ND	0.0003	ND	ND	ND	NR
METRIBUZIN	NE	mg/L	ND	ND	ND	ND	ND	ND	ND	NR
OXAMYL (VYDATE)	MCL	mg/L 0.2	ND	ND	ND	ND	ND	ND	ND	NR
PARAQUAT	NE	mg/L	ND	ND	ND	ND	ND	ND	ND	NR
PICLORAM	MCL	mg/L 0.5	ND	ND	ND	ND	ND	ND	ND	NR
PROPACHLOR	NE	mg/L	ND	ND	ND	ND	ND	ND	ND	NR
SIMAZINE	MCL	mg/L 0.004	ND	ND	ND	ND	ND	ND	ND	NR
2,3,7,8-TCDD (DIOXIN)	MCL	**	NR	NR	NR	NR	NR	NR	NR	NR
POLYCHLORINATED BIPHENYLS (PCB)	MCL	mg/L 0.0005	ND	ND	ND	ND	ND	ND	ND	NR
PENTACHLOROPHENOL	MCL	mg/L 0.001	ND	ND	ND	ND	ND	ND	ND	NR
TOXAPHENE	MCL	mg/L 0.003	ND	ND	ND	ND	ND	ND	ND	NR
2,4,5-TP (SILVEX)	MCL	mg/L 0.05	ND	ND	ND	ND	ND	ND	ND	NR

** = mg/L 0.0000003

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These levels are established by law.

SMCL=SECONDARY MAXIMUM CONTAMINANT LEVEL. Is the advisable maximum level of a contaminant in

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						WELL 7A	WELL 8	WELL 9		
INORGANICS 2019 (sampled tri-annually)										
ANTIMONY	MCL	mg/L 0.006	ND	ND	ND	ND	ND	ND	ND	NR
ARSENIC	MCL	mg/L 0.05	ND	ND	ND	ND	ND	ND	ND	NR
ASBESTOS	MCL	MF/L 7.0	NR	NR	NR	NR	NR	NR	NR	NR
BARIUM	MCL	mg/L 1.0	0.398	0.207	0.224	0.107	0.138	0.116	0.0073	NR
BERYLLIUM	MCL	mg/L 0.004	ND	ND	ND	ND	ND	ND	ND	NR
CADMIUM	MCL	mg/L 0.01	ND	ND	ND	ND	ND	ND	ND	NR
CHROMIUM	MCL	mg/L 0.05	ND	ND	ND	ND	ND	ND	ND	NR
CHLORIDES	MCL	mg/L 250	195	68.4	76	20.5	46.1	52.8	17.4	NR
COPPER	AL	mg/L 1.0	NR	NR	NR	NR	NR	NR	NR	NR
CYANIDE	MCL	mg/L 0.2	ND	ND	ND	ND	ND	ND	ND	NR
FLUORIDE	MCL	mg/L 2.0	0.502	0.469	0.456	0.676	0.511	0.54	0.628	NR
IRON	SMCL	mg/L 0.3	NR	NR	NR	NR	NR	NR	NR	NR
LEAD	AL	mg/L 0.015	NR	NR	NR	NR	NR	NR	NR	NR
MANGANESE	SMCL	mg/L 0.05	NR	NR	NR	NR	NR	NR	NR	NR
METHYLENE BLUE ACTIVE SUBSTANCES	MCL	mg/L 0.5	NR	NR	NR	NR	NR	NR	NR	NR
MERCURY	MCL	mg/L 0.005	ND	ND	ND	ND	ND	ND	ND	NR
NICKEL	MCL	mg/L 0.1	0.0012	0.0011	ND	ND	0.001	0.0011	0.001	NR
NITRITES (annually)	MCL	mg/L 1.0	ND	ND	ND	ND	ND	ND	ND	NR
NITRATES (annually)	MCL	mg/L 10.0	3.62	2.48	3.44	3.61	2.66	2.61	0.0554	NR
SELENIUM	MCL	mg/L 0.01	ND	ND	ND	ND	ND	ND	ND	NR
SILVER	MCL	mg/L 0.05	ND	ND	ND	ND	ND	ND	ND	NR
SODIUM	SMCL	mg/L 28.0	61.6	32.2	26.1	11.7	18.3	18.4	19.6	NR
SULFATE	SMCL	mg/L 250	16	20	13.8	32.2	ND	33.7	18.4	NR
THALLIUM	MCL	mg/L 0.002	ND	ND	ND	ND	ND	ND	NR	NR
ZINC	SMCL	mg/L 5.0	NR	NR	NR	NR	NR	NR	NR	NR
WELL 2 P.C.E.										
TETRACHLOROETHYLENE RAW WATER	MCL	ug/L 5.0	NR	4.7	NR	NR	NR	NR	NR	NR
TETRACHLOROETHYLENE TREATED WATER	MCL	ug/L 5.0	NR	ND	NR	NR	NR	NR	NR	NR
CORROSIVITY (2016)										
ALKALINITY	NE	mg/L	160.5	134.2	122.6	110.6	139.6	156.7	12	NR
CALCIUM	NE	mg/L	84.44	57.96	58.52	50.92	55.65	66.87	2.3	NR
CALCIUM HARDNESS	NE	mg/L	211	145	146	127	139	167	6	NR
TOTAL HARDNESS	NE	mg/L	256	180	181	167	183	213	9	NR
CONDUCTIVITY	NE	UMHOS/L	721	495	485	392	420	420	100	NR
TOTAL DISSOLVED SOLIDS	SMCL	mg/L 500	531	353	372	296	295	340	87	NR
TEMPRATURE	NE	DEG.(F)	54	54	56	55	55	53	62	NR
PHYSICALS										
pH RAW WATER	MCL	6.4><10	NR	NR	NR	NR	NR	NR	7.71	NR
pH TREATED WATER	MCL	6.4><10	NR	NR	NR	NR	NR	NR	NR	NR
COLOR RAW WATER	MCL	CU 250	NR	NR	NR	NR	NR	NR	4	NR
COLOR TREATED WATER	MCL	CU 15	NR	NR	NR	NR	NR	NR	NR	NR
TURBIDITY RAW WATER	MCL	NTU 250	NR	NR	NR	NR	NR	NR	0.29	NR
TURBIDITY TREATED WATER	MCL	NTU 0.5	NR	NR	NR	NR	NR	NR	NR	NR
ODOR RAW WATER	MCL	VALUE 2	NR	NR	NR	NR	NR	NR	0	NR
ODOR TREATED WATER	MCL	VALUE 2	NR	NR	NR	NR	NR	NR	NR	NR
BACTERIA										
COLIFORM RAW WATER	NO LIMIT	#/100ML 20000	NR	NR	NR	NR	NR	NR	2420	NR
COLIFORM TREATED WATER	MCL	#/100ML 0	NR	NR	NR	NR	NR	NR	NR	NR

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AL= ACTION LEVEL.Means the level of concentration at which action should

be taken to reduce the health risk

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			WELL 1A	WELL 2	WELL 3	WELL 7A	WELL 8	WELL 9		
ORGANICS 2019 (sampled annually)										
BENZENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
BROMOBENZENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
BROMODICHLOROMETHANE	NE	ug/L	ND	0.68	ND	ND	ND	ND	3.46	NR
BROMOFORM	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
BROMOMETHANE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
N-BUTYLBENZENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
SEC-BUTYLBENZENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
TERT-BUTYLBENZENE	MCL	ug/L 5.0	ND	ND	ND	ND	ND	ND	ND	NR
CARBON TETRACHLORIDE	MCL	ug/L 100	ND	ND	ND	ND	ND	ND	ND	NR
CHLOROBENZENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
CHLOROETHANE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
CHLOROFORM	NE	ug/L	ND	ND	ND	ND	0.52	ND	21.2	NR
CHLOROMETHANE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
O-CHLOROTOLUENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
P-CHLOROTOLUENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
DIBROMOCHLOROMETHANE	MCL	ug/L	ND	1.00	ND	ND	ND	ND	ND	NR
DIBROMOMETHANE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
M-DICHLOROBENZENE	MCL	ug/L 600	ND	ND	ND	ND	ND	ND	ND	NR
O-DICHLOROBENZENE	MCL	ug/L 75	ND	ND	ND	ND	ND	ND	ND	NR
P-DICHLOROBENZENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
DICHLORODIFLUOROMETHANE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
1,1-DICHLOROETHANE	MCL	ug/L 5.0	ND	ND	ND	ND	ND	ND	ND	NR
1,2-DICHLOROETHANE (EDC)	MCL	ug/L 7.0	ND	ND	ND	ND	ND	ND	ND	NR
1,1-DICHLOROETHYLENE	MCL	ug/L 70.0	ND	ND	ND	ND	ND	ND	ND	NR
CIS-1,2-DICHLOROETHYLENE	MCL	ug/L 100	ND	ND	ND	ND	ND	ND	ND	NR
TRANS-1,2-DICHLOROETHYLENE	MCL	ug/L 5.0	ND	ND	ND	ND	ND	ND	ND	NR
1,2-DICHLOROPROPANE (1,2-D)	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
1,3-DICHLOROPROPANE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
2,2-DICHLOROPROPANE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
1,1-DICHLOROPROPENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
CIS-1,3-DICHLOROPROPENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
TRANS-1,3-DICHLOROPROPENE	MCL	ug/L 700	ND	ND	ND	ND	ND	ND	ND	NR
ETHYLBENZENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
HEXACHLOROBUTADIENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
ISOPROPYLBENZENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
4-ISOPROPYLTOLUENE	MCL	ug/L 5.0	ND	ND	ND	ND	ND	ND	ND	NR
METHYLENE CHLORIDE(dichloromethane)	MCL	ug/L 100	ND	ND	ND	ND	ND	ND	ND	NR
MONOCHLOROBENZENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
NAPHTHALENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
N-PROPYLBENZENE	MCL	ug/L 100	ND	ND	ND	ND	ND	ND	ND	NR
STYRENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
1,1,1,2-TETRACHLOROETHANE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
1,1,2,2-TETRACHLOROETHANE	MCL	ug/L 5.0	ND	ND	ND	ND	ND	ND	ND	NR
TETRACHLOROETHYLENE (PCE)	MCL	ug/L 1000	ND	ND	ND	ND	ND	ND	ND	NR
TOLUENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
1,2,3-TRICHLOROBENZENE	MCL	ug/L 70.0	ND	ND	ND	ND	ND	ND	ND	NR
1,2,4-TRICHLOROBENZENE	MCL	ug/L 200	ND	ND	ND	ND	ND	ND	ND	NR
1,1,1, TRICHLOROETHANE	MCL	ug/L 5.0	ND	ND	ND	ND	ND	ND	ND	NR
1,1,2-TRICHLOROETHANE	MCL	ug/L 5.0	ND	ND	ND	ND	ND	ND	ND	NR
TRICHLOROTRIFLUOROETHANE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
1,2,3-TRICHLOROPROPANE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
1,2,3-TRIMETHYLBENZENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
1,2,4-TRIMETHYLBENZENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
1,3,5-TRIMETHYLBENZENE	MCL	ug/L 2.0	ND	ND	ND	ND	ND	ND	ND	NR
VINYL CHLORIDE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
METHYL-TERT-BUTYL-ETHER (MTBE)	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
M-XYLENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
O-XYLENE	NE	ug/L	ND	ND	ND	ND	ND	ND	ND	NR
P-XYLENE	MCL	ug/L 10	ND	ND	ND	ND	ND	ND	ND	NR

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			WELL 1A	WELL 2	WELL 3	WELL 7A	WELL 8	WELL 9			
DISINFECTION BY-PRODUCTS 2019											
<u>HAA's (HALOACETIC ACIDS)</u>											
DIBROMOACETIC ACID	NE	ug/L	NR	NR	NR	NR	NR	NR	NR	NR	2.50
DICHLOROACETIC ACID	NE	ug/L	NR	NR	NR	NR	NR	NR	NR	NR	37.00
MONOBROMOACETIC ACID	NE	ug/L	NR	NR	NR	NR	NR	NR	NR	NR	ND
MONOCHLOROACETIC ACID	NE	ug/L	NR	NR	NR	NR	NR	NR	NR	NR	3.50
TRICHLOROACETIC ACID	NE	ug/L	NR	NR	NR	NR	NR	NR	NR	NR	33.00
HAAs (OEL not exceed 60 ug/L)	MCL	ug/L 60	0	0	0	0	0	0	0	0	17.00
<u>THM's (TRIHALOMETHANES)</u>											
CHLOROFORM	NE	ug/L	NR	NR	NR	NR	NR	NR	NR	NR	79.5
BROMODICHLOROMETHANE	NE	ug/L	NR	NR	NR	NR	NR	NR	NR	NR	13.5
DIBROMOCHLOROMETHANE	NE	ug/L	NR	NR	NR	NR	NR	NR	NR	NR	5.62
BROMOFORM	NE	ug/L	NR	NR	NR	NR	NR	NR	NR	NR	2.4
THMs (OEL not exceed 80 ug/L)	MCL	ug/L 80	0	0	0	0	0	0	0	0	33.19
<u>RADIOACTIVITY 2019 (sampled tri-annually)</u>											
GROSS ALPHA PARTICLES	MCL	pCi/L 15	-0.24	0.986	1.34	1.95	0.652	0.774	0.515	NR	
RADIUM 226	MCL	pCi/L 5	0.498	0.27	0.726	0.114	0.0718	0.599	0.574	NR	
RADIUM 228			0.794	0.23	0.313	0.436	0.695	0.620	0.218	NR	
GROSS BETA PARTICLES			0.674	NR	0.358	NR	NR	NR	NR	NR	
MAN-MADE BETA PARTICLES	MCL	4mrem/year	NR	NR	NR	NR	NR	NR	NR	NR	
URANIUM	MCL	ug/L 30	ND	1.02	ND	ND	ND	ND	NS	NR	
STRONTIUM 90			-0.5260	NR	-0.013	NR	NR	NR	NR	NR	
TRITIUM			2.89	NR	-70.1	NR	NR	NR	NR	NR	

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OEL - OPERATIONAL EVALUATION LEVEL