

**SOUTHINGTON WATER DEPARTMENT  
CURRENT WATER SAMPLE RESULTS  
2023**

PARAMETER SUBSTANCES	SOURCE OF STANDARD	UNITS STANDARD	<u>SOURCES</u>				
			WELL 1A	WELL 2A	WELL 3	WELL 7A	WELL 8
<b>PESTICIDES 2023 (2 routines triennially)</b>							
ALACHLOR	MCL	mg/L 0.002	ND	ND	ND	ND	ND
ALDICARB	MCL	mg/L 0.003	ND	ND	ND	ND	ND
ALDICARB SULFOXIDE	MCL	mg/L 0.004	ND	ND	ND	ND	ND
ALDICARB SULFONE	MCL	mg/L 0.003	ND	ND	ND	ND	ND
ALDRIN	NE	mg/L	ND	ND	ND	ND	ND
ATRAZINE	MCL	mg/L 0.003	ND	ND	ND	ND	ND
BENZO(A)PYRENE	MCL	mg/L 0.0002	ND	ND	ND	ND	ND
BUTACHLOR	NE	mg/L	ND	ND	ND	ND	ND
CARBARYL	NE	mg/L	ND	ND	ND	ND	ND
CARBOFURAN	MCL	mg/L 0.004	ND	ND	ND	ND	ND
CHLORDANE	MCL	mg/L 0.002	ND	ND	ND	ND	ND
DALAPON	MCL	mg/L 0.2	ND	ND	ND	ND	ND
DI(2-ETHYLHEXYL) ADIPATE	MCL	mg/L 0.4	ND	ND	ND	ND	ND
DI(2-ETHYLHEXYL) PHTHALATES	MCL	mg/L 0.006	ND	ND	ND	ND	ND
DICAMBA	NE	mg/L	ND	ND	ND	ND	ND
DIELDRIN	NE	mg/L	ND	ND	ND	ND	ND
DINOSEB	MCL	mg/L 0.007	ND	ND	ND	ND	ND
DIQUAT	MCL	mg/L 0.02	ND	ND	ND	ND	ND
DIBROMOCHLOPROPANE (DBCP)	MCL	mg/L 0.0002	ND	ND	ND	ND	ND
2,4-D	MCL	mg/L 0.07	ND	ND	ND	ND	ND
ETHYLENE DIBROMIDE (EDB)	MCL	mg/L 0.00005	ND	ND	ND	ND	ND
ENDRIN	MCL	mg/L 0.002	ND	ND	ND	ND	ND
ENDOTHALL	MCL	mg/L 0.1	ND	ND	ND	ND	ND
GLYPHOSATE	MCL	mg/L 0.7	ND	ND	ND	ND	ND
HEPTACHLOR	MCL	mg/L 0.0004	ND	ND	ND	ND	ND
HEPTACHLOR EPOXIDE	MCL	mg/L 0.0002	ND	ND	ND	ND	ND
HEXACHLOROBENZENE	MCL	mg/L 0.001	ND	ND	ND	ND	ND
HEXACHLOROCYCLOPENTADIENE	MCL	mg/L 0.05	ND	ND	ND	ND	ND
3-HYDRXYCARBOFURAN	NE	mg/L	ND	ND	ND	ND	ND
LINDANE	MCL	mg/L 0.0002	ND	ND	ND	ND	ND
METHOXYCHLOR	MCL	mg/L 0.04	ND	ND	ND	ND	ND
METHOMYL	NE	mg/L	ND	ND	ND	ND	ND
METOLACHLOR	NE	mg/L	ND	ND	ND	0.0775	ND
METRIBUZIN	NE	mg/L	ND	ND	ND	ND	ND
OXAMYL (VYDATE)	MCL	mg/L 0.2	ND	ND	ND	ND	ND
PARAQUAT	NE	mg/L	ND	ND	ND	ND	ND
PICLORAM	MCL	mg/L 0.5	ND	ND	ND	ND	ND
PROPACHLOR	NE	mg/L	ND	ND	ND	ND	ND
SIMAZINE	MCL	mg/L 0.004	ND	ND	ND	ND	ND
2,3,7,8-TCDD (DIOXIN)	MCL	**	NR	NR	NR	NR	NR
POLYCHLORINATED BIPHENYLS (PCB)	MCL	mg/L 0.0005	ND	ND	ND	ND	ND
PENTACHLOROPHENOL	MCL	mg/L 0.001	ND	ND	ND	ND	ND
TOXAPHENE	MCL	mg/L 0.003	ND	ND	ND	ND	ND
2,4,5-TP (SILVEX)	MCL	mg/L 0.05	ND	ND	ND	ND	ND

\*\* = mg/L 0.00000003

**MCL= MAXIMUM CONTAMINANT LEVEL.** Means the maximum permissible level established by the EPA and/or the State Health Dept.

These levels are established by law.

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

**NE = NOT ESTABLISHED**

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			WELL 1A	WELL 2A	WELL 3	WELL 7A	WELL 8
<b>INORGANICS 2023 (sampled triennially)</b>							
ANTIMONY	MCL	mg/L 0.006	ND	ND	ND	ND	ND
ARSENIC	MCL	mg/L 0.05	ND	ND	ND	ND	ND
ASBESTOS	MCL	MF/L 7.0	NR	NR	NR	NR	NR
BARIUM	MCL	mg/L 1.0	0.409	0.224	0.223	0.14	0.115
BERYLLIUM	MCL	mg/L 0.004	ND	ND	ND	ND	ND
CADMIUM	MCL	mg/L 0.01	ND	ND	ND	ND	ND
CHROMIUM	MCL	mg/L 0.05	ND	0.001	ND	0.001	ND
CHLORIDES	MCL	mg/L 250	154	70.4	77.1	36.4	53.5
COPPER	AL	mg/L 1.0	NR	NR	NR	NR	NR
CYANIDE	MCL	mg/L 0.2	ND	ND	ND	ND	ND
FLUORIDE	MCL	mg/L 2.0	0.493	0.74	0.582	0.678	0.523
IRON	SMCL	mg/L 0.3	NR	NR	NR	NR	NR
LEAD	AL	mg/L 0.015	NR	NR	NR	NR	NR
MANGANESE	SMCL	mg/L 0.05	NR	NR	NR	NR	NR
METHYLENE BLUE ACTIVE SUBSTANCES	MCL	mg/L 0.5	NR	NR	NR	NR	NR
MERCURY	MCL	mg/L 0.005	ND	ND	ND	ND	ND
NICKEL	MCL	mg/L 0.1	0.0022	0.0011	0.0012	0.001	0.0012
NITRITES (annually)	MCL	mg/L 1.0	ND	ND	ND	ND	ND
NITRATES (annually)	MCL	mg/L 10.0	3.62	2.77	3.23	3.05	1.54
SELENIUM	MCL	mg/L 0.01	ND	ND	ND	ND	ND
SILVER	MCL	mg/L 0.05	ND	ND	ND	ND	ND
SODIUM	SMCL	mg/L 28.0	64.8	31.5	26.1	14.8	21
SULFATE	SMCL	mg/L 250	15.3	12.9	13.9	30.9	ND
THALLIUM	MCL	mg/L 0.002	ND	ND	ND	ND	ND
ZINC	SMCL	mg/L 5.0	NR	NR	NR	NR	NR
<b>WELL 2 P.C.E.</b>							
TETRACHLOROETHYLENE RAW WATER	MCL	ug/L 5.0	NR	2.99	NR	NR	NR
TETRACHLOROETHYLENE TREATED WATER	MCL	ug/L 5.0	ND	ND	NR	NR	NR
<b>CORROSIVITY (2023)</b>							
ALKALINITY	NE	mg/L	192.4	174	104.2	185.8	116.3
CALCIUM	NE	mg/L	90.7	64.37	59.25	61.08	57.62
CALCIUM HARDNESS	NE	mg/L	226	161	148	153	144
TOTAL HARDNESS	NE	mg/L	273	196	180	195	185
SPECIFIC CONDUCTIVITY	NE	UMHOS/L	903	536	518	452	453
TOTAL DISSOLVED SOLIDS	SMCL	mg/L 500	658	351	367	284	307
<b>PHYSICALS</b>							
pH RAW WATER	MCL	6.4><10	NR	NR	NR	NR	NR
pH TREATED WATER	MCL	6.4><10	NR	NR	NR	NR	NR
COLOR RAW WATER	MCL	CU 250	NR	NR	NR	NR	NR
COLOR TREATED WATER	MCL	CU 15	NR	NR	NR	NR	NR
TURBIDITY RAW WATER	MCL	NTU 250	NR	NR	NR	NR	NR
TURBIDITY TREATED WATER	MCL	NTU 0.5	NR	NR	NR	NR	NR
ODOR RAW WATER	MCL	VALUE 2	NR	NR	NR	NR	NR
ODOR TREATED WATER	MCL	VALUE 2	NR	NR	NR	NR	NR
<b>BACTERIA</b>							
COLIFORM RAW WATER	NO LIMIT	#/100ML 20000	NR	NR	NR	NR	NR
COLIFORM TREATED WATER	MCL	#/100ML 0	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 2A	WELL 3	WELL 7A	WELL 8
<b>ORGANICS 2023 (sampled annually)</b>							
BENZENE	NE	ug/L	ND	ND	ND	ND	ND
BROMOBENZENE	NE	ug/L	ND	ND	ND	ND	ND
BROMODICHLOROMETHANE	NE	ug/L	ND	0.63	ND	ND	ND
BROMOFORM	NE	ug/L	ND	ND	ND	ND	ND
BROMOMETHANE	NE	ug/L	ND	ND	ND	ND	ND
N-BUTYLBENZENE	NE	ug/L	ND	ND	ND	ND	ND
SEC-BUTYLBENZENE	NE	ug/L	ND	ND	ND	ND	ND
TERT-BUTYLBENZENE	MCL	ug/L 5.0	ND	ND	ND	ND	ND
CARBON TETRACHLORIDE	MCL	ug/L 100	ND	ND	ND	ND	ND
CHLOROBENZENE	NE	ug/L	ND	ND	ND	ND	ND
CHLOROETHANE	NE	ug/L	ND	ND	ND	ND	ND
CHLOROFORM	NE	ug/L	ND	ND	ND	0.57	ND
CHLOROMETHANE	NE	ug/L	ND	ND	ND	ND	ND
O-CHLOROTOLUENE	NE	ug/L	ND	ND	ND	ND	ND
P-CHLOROTOLUENE	NE	ug/L	ND	ND	ND	ND	ND
DIBROMOCHLOROMETHANE	MCL	ug/L	ND	0.74	ND	ND	ND
DIBROMOMETHANE	NE	ug/L	ND	ND	ND	ND	ND
M-DICHLOROBENZENE	MCL	ug/L 600	ND	ND	ND	ND	ND
O-DICHLOROBENZENE	MCL	ug/L 75	ND	ND	ND	ND	ND
P-DICHLOROBENZENE	NE	ug/L	ND	ND	ND	ND	ND
DICHLORODIFLUOROMETHANE	NE	ug/L	ND	ND	ND	ND	ND
1,1-DICHLOROETHANE	MCL	ug/L 5.0	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE (EDC)	MCL	ug/L 7.0	ND	ND	ND	ND	ND
1,1-DICHLOROETHYLENE	MCL	ug/L 70.0	ND	ND	ND	ND	ND
CIS-1,2-DICHLOROETHYLENE	MCL	ug/L 100	ND	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHYLENE	MCL	ug/L 5.0	ND	ND	ND	ND	ND
1,2-DICHLOROPROPANE (1,2-D)	NE	ug/L	ND	ND	ND	ND	ND
1,3-DICHLOROPROPANE	NE	ug/L	ND	ND	ND	ND	ND
2,2-DICHLOROPROPANE	NE	ug/L	ND	ND	ND	ND	ND
1,1-DICHLOROPROPENE	NE	ug/L	ND	ND	ND	ND	ND
CIS-1,3-DICHLOROPROPENE	NE	ug/L	ND	ND	ND	ND	ND
TRANS-1,3-DICHLOROPROPENE	MCL	ug/L 700	ND	ND	ND	ND	ND
ETHYLBENZENE	NE	ug/L	ND	ND	ND	ND	ND
HEXACHLOROBUTADIENE	NE	ug/L	ND	ND	ND	ND	ND
ISOPROPYLBENZENE	NE	ug/L	ND	ND	ND	ND	ND
4-ISOPROPYLTOLUENE	MCL	ug/L 5.0	ND	ND	ND	ND	ND
METHYLENE CHLORIDE(dichloromethane)	MCL	ug/L 100	ND	ND	ND	ND	ND
MONOCHLOROBENZENE	NE	ug/L	ND	ND	ND	ND	ND
NAPHTHALENE	NE	ug/L	ND	ND	ND	ND	ND
N-PROPYLBENZENE	MCL	ug/L 100	ND	ND	ND	ND	ND
STYRENE	NE	ug/L	ND	ND	ND	ND	ND
1,1,1,2-TETRACHLOROETHANE	NE	ug/L	ND	ND	ND	ND	ND
1,1,2,2-TETRACHLOROETHANE	MCL	ug/L 5.0	ND	ND	ND	ND	ND
TETRACHLOROETHYLENE (PCE)	MCL	ug/L 1000	ND	3.33	ND	ND	ND
TOLUENE	NE	ug/L	ND	ND	ND	ND	ND
1,2,3-TRICHLOROBENZENE	MCL	ug/L 70.0	ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	MCL	ug/L 200	ND	ND	ND	ND	ND
1,1,1, TRICHLOROETHANE	MCL	ug/L 5.0	ND	ND	ND	ND	ND
1,1,2-TRICHLOROETHANE	MCL	ug/L 5.0	ND	ND	ND	ND	ND
TRICHLOROTRIFLUOROETHANE	NE	ug/L	ND	ND	ND	ND	ND
1,2,3-TRICHLOROPROPANE	NE	ug/L	ND	ND	ND	ND	ND
1,2,3-TRIMETHYLBENZENE	NE	ug/L	ND	ND	ND	ND	ND
1,2,4-TRIMETHYLBENZENE	NE	ug/L	ND	ND	ND	ND	ND
1,3,5-TRIMETHYLBENZENE	MCL	ug/L 2.0	ND	ND	ND	ND	ND
VINYL CHLORIDE	NE	ug/L	ND	ND	ND	ND	ND
METHYL-TERT-BUTYL-ETHER (MTBE)	NE	ug/L	ND	ND	ND	ND	ND
M-XYLENE	NE	ug/L	ND	ND	ND	ND	ND
O-XYLENE	NE	ug/L	ND	ND	ND	ND	ND
P-XYLENE	MCL	ug/L 10	ND	ND	ND	ND	ND

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						WELL 7A	WELL 8
<b>DISINFECTION BY-PRODUCTS 2023</b>							
<b>HAA's (HALOACETIC ACIDS)</b>							
DIBROMOACETIC ACID	NE	ug/L	NR	NR	NR	NR	NR
DICHLOROACETIC ACID	NE	ug/L	NR	NR	NR	NR	NR
MONOBROMOACETIC ACID	NE	ug/L	NR	NR	NR	NR	NR
MONOCHLOROACETIC ACID	NE	ug/L	NR	NR	NR	NR	NR
TRICHLOROACETIC ACID	NE	ug/L	NR	NR	NR	NR	NR
HAA's (OEL not exceed 60 ug/L)	MCL	ug/L 60	0	0	0	0	0
<b>THM's (TRIHALOMETHANES)</b>							
CHLOROFORM	NE	ug/L	NR	NR	NR	NR	NR
BROMODICHLOROMETHANE	NE	ug/L	NR	NR	NR	NR	NR
DIBROMOCHLOROMETHANE	NE	ug/L	NR	NR	NR	NR	NR
BROMOFORM	NE	ug/L	NR	NR	NR	NR	NR
THMs (OEL not exceed 80 ug/L)	MCL	ug/L 80	0	0	0	0	0
<b>RADIOACTIVITY 2023 (sampled triennially)</b>							
GROSS ALPHA PARTICLES	MCL	pCi/L 15	1.77	1.24	0.899	1.95	2.560
RADIUM 226	MCL	pCi/L 5	0.0944	ND	0.168	0.114	0.0514
RADIUM 228			0.527	0.18	0.424	0.436	0.195
GROSS BETA PARTICLES			1.05	NR	0.747	NR	NR
MAN-MADE BETA PARTICLES	MCL	4mrem/year	NR	NR	NR	NR	NR
URANIUM	MCL	ug/L 30	ND	1.25	ND	ND	ND
STRONTIUM 90			ND	NR	ND	NR	NR
TRITIUM			ND	NR	ND	NR	NR
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<b>PFAS/PFOA 2023</b>							
N-Methyl Perfluorooctanesulfonamidoacetic Acid (NMeFOSAA)	NE	ppb	ND	ND	ND	ND	ND
N-Ethyl Perfluorooctanesulfonamidoacetic Acid (NEtFOSAA)	NE	ppb	ND	ND	ND	ND	ND
Perfluorotridecanoic Acid (PFTrDA)	NE	ppb	ND	ND	ND	ND	ND
Perfluorotetradecanoic Acid (PFTA)	NE	ppb	ND	ND	ND	ND	ND
Perfluorobutanoic Acid (PFBA)	NE	ppb	ND	ND	ND	ND	ND
Perfluoro-3-Methoxypropanoic Acid (PFMPA)	NE	ppb	ND	ND	ND	ND	ND
Perfluoropentanoic Acid (PFPeA)	NE	ppb	ND - 0.004	0.003	ND - 0.003	ND	ND
Perfluorobutanesulfonic Acid (PFBS)	NE	ppb	ND - 0.004	ND - 0.004	ND - 0.003	ND	ND
Perfluoro-4-Methoxybutanoic Acid (PFMBA)	NE	ppb	ND	ND	ND	ND	ND
Perfluoro(2-Ethoxyethane)Sulfonic Acid (PFEEESA)	NE	ppb	ND	ND	ND	ND	ND
Nonafluoro-3,6-Dioxaheptanoic Acid (NFDHA)	NE	ppb	ND	ND	ND	ND	ND
1H,1H,2H,2H-Perfluorohexanesulfonic Acid (4:2FTS)	NE	ppb	ND	ND	ND	ND	ND
Perfluorohexanoic Acid (PFHxA)	NE	ppb	ND - 0.004	ND	ND	ND	ND
Perfluoropentanesulfonic Acid (PFPeS)	NE	ppb	ND	ND	ND	ND	ND
Heptafluoropropoxy] Propanoic Acid (HFPO-DA)	NE	ppb	ND	ND	ND	ND	ND
Perfluoroheptanoic Acid (PFHpA)	NE	ppb	ND - 0.003	ND	ND	ND	ND
Perfluorohexanesulfonic Acid (PFHxS)	NE	ppb	ND	ND	ND	ND	ND
4,8-Dioxa-3h-Perfluorononanoic Acid (ADONA)	NE	ppb	ND	ND	ND	ND	ND
1H,1H,2H,2H-Perfluorooctanesulfonic Acid (6:2FTS)	NE	ppb	ND	ND	ND	ND	ND
Perfluorooctanoic Acid (PFOA)	NE	ppb	0.007 - 0.008	0.004	0.004 - 0.005	ND	ND
Perfluoroheptanesulfonic Acid (PFHpS)	NE	ppb	ND	ND	ND	ND	ND
Perfluorononanoic Acid (PFNA)	NE	ppb	ND	ND	ND	ND	ND
Perfluorooctanesulfonic Acid (PFOS)	NE	ppb	0.004 - 0.005	ND	0.004	ND	ND
9-Chlorohexadecafluoro-3-Oxanone-1-Sulfonic Acid (9Cl-PF3ONS)	NE	ppb	ND	ND	ND	ND	ND
1H,1H,2H,2H-Perfluorodecanesulfonic Acid (8:2FTS)	NE	ppb	ND	ND	ND	ND	ND
Perfluorodecanoic Acid (PFDA)	NE	ppb	ND	ND	ND	ND	ND
Perfluoroundecanoic Acid (PFUnA)	NE	ppb	ND	ND	ND	ND	ND
1-Chloroeicosafluoro-3-Oxaundecane-1-Sulfonic Acid (11Cl-PF30I)	NE	ppb	ND	ND	ND	ND	ND
Perfluorododecanoic Acid (PFDoA)	NE	ppb	ND	ND	ND	ND	ND

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WELL 9	RES.	DIST. SYS.
ND	ND	NR
ND	ND	NR
NR	NR	NR
0.11	0.0059	NR
ND	ND	NR
ND	ND	NR
ND	ND	NR
55.9	16.3	NR
NR	NR	NR
ND	ND	NR
0.673	ND	NR
NR	NR	NR
NR	NR	NR
NR	NR	NR
NR	0.071	NR
ND	ND	NR
0.0013	ND	NR
ND	ND	NR
2.58	0.0069	NR
ND	ND	NR
ND	ND	NR
20.8	ND	NR
36.1	ND	NR
ND	ND	NR
NR	NR	NR
NR	NR	NR
NR	NR	NR
NR	NR	NR
191.7	NP	NR
68.77	NP	NR
172	NP	NR
214	NP	NR
525	NP	NR
354	NP	NR
NR	6.19	NR
NR	NR	NR
NR	5.38	NR
NR	NR	NR
NR	0.99	NR
NR	NR	NR
NR	0	NR
NR	NR	NR
NR	504.5	NR
NR	NR	NR



