2021
Water Quality Table

MLGW

How to Read the 2021 Water Quality Table

The table shows the results of our water analyses by pumping station. MLGW operates 10 stations throughout Shelby County. Getting this life-sustaining liquid from the ground to the faucets in your home or business involves a massive coordination effort by the professionals at MLGW. If you have questions about your water, our Water Quality Assurance Laboratory can help you find which pumping station is nearest your home or business. Call 901-320-3962.

Key to Abbreviations:

ND	Below Method Detection Limit – The concentration of a compound is less than the smallest amount that can be measured by the test method used.
MCL	Maximum Contaminant Level is the highest level of a contaminant allowed in drinking water. MCLs are set as close as feasible to the maximum contaminant level goals or MCLG using the best available treatment technology.
MCLG	Maximum Contaminant Level Goal – The level of a contaminant in drinking water below which there is no known or expected health risk. MCLGs allow for a margin of safety.
mg/L or **ppm**	Milligrams per Liter or parts per million is the equivalent to about one drop in a full bathtub of 55 gallons of water (one penny in $10,000)
µg/L or **ppb**	Micrograms per Liter or parts per billion (one penny in $10,000,000)
umho/cm	Micromhos per centimeter
NS	No Standard
NTU	Nephelometric Turbidity Units – a measure of water's clarity
(a)	No more than 5% of the monthly samples may be total coliform positive
<	Less than
TON	Threshold Odor Number

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Memphis Light, Gas and Water

	MAXIMUM CONTAMINANT LEVEL	SHEAHAN STATION	ALLEN STATION	MCCORD STATION	MALLORY STATION	LICHTERMAN STATION	DAVIS STATION	MORTON STATION	LNG PLANT	PALMER STATION	SHAW STATION	AVERAGE FOR ALL TREATMENT PLANTS
CLARITY												
TURBIDITY (NTU)	2.0	0.28	0.35	0.31	0.38	0.24	0.40	0.32	0.26	0.24	0.51	0.33
MICROBIOLOGICAL												
TOTAL COLIFORM (% positive samples/month)	(a)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
FECAL COLIFORM (% positive samples/month)	(a)	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
ORGANIC CHEMICALS (mg/L)												
PESTICIDES												
ALACHLOR	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ATRAZINE	0.003	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VOLATILE ORGANIC COMPOUNDS (mg/L)												
BENZENE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CARBON TETRACHLORIDE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHLOROBENZENE	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROBENZENE	0.6	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,4-DICHLOROBENZENE	0.075	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROETHANE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1-DICHLOROETHYLENE	0.007	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CIS-1,2-DICHLOROETHYLENE	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TRANS-1,2-DICHLOROETHYLENE	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DICHLOROMETHANE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2-DICHLOROPROPANE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ETHYLBENZENE	0.7	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
STYRENE	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TETRACHLOROETHYLENE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOLUENE	1.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,1-TRICHLOROETHANE	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,1,2-TRICHLOROETHANE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TRICHLOROETHYLENE	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
1,2,4-TRICHLOROBENZENE	0.07	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
VINYL CHLORIDE	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
TOTAL XYLENES	10.0	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.0019	0.0019
INORGANIC CHEMICALS (mg/L)												
ALUMINUM	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	0.10	0.10
ANTIMONY	0.006	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ARSENIC	0.01	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
BARIUM	2.0	0.022	0.053	0.024	0.036	0.018	0.075	0.060	0.050	0.029	0.016	0.038
BERYLLIUM	0.004	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CADMIUM	0.005	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
CHROMIUM	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
COPPER	1.0	0.001	0.08	0.002	ND	0.003	0.001	0.008	0.006	0.005	0.002	0.01
MANGANESE	0.05	ND	ND	ND	ND	ND	ND	ND	0.04	ND	0.01	0.02
MERCURY	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
NICKEL	0.1	0.01	ND	ND	ND	ND	ND	ND	ND	0.03	ND	0.02
SILVER	0.1	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
SELENIUM	0.05	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
THALLIUM	0.002	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ZINC	5.0	ND	0.16	ND	ND	ND	ND	ND	ND	ND	ND	0.16

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CHEMICAL PARAMETERS												
CHLORIDE (mg/L)	250	5.6	5.4	5.3	3.1	5.6	4.7	3.3	4.4	5.0	4.0	4.6
CYANIDE (mg/L)	0.2	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
DETERGENTS - MBAS (mg/L)	0.5	0.07	0.06	0.06	0.04	0.03	0.04	0.04	0.06	0.09	0.04	0.05
FLUORIDE (mg/L)	2.0	0.59	0.65	0.61	0.62	0.59	0.63	0.61	0.62	0.60	0.59	0.61
IRON (mg/L)	0.3	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.11	0.01	0.01	0.02
NITRATE (as Nitrogen) (mg/L)	10	0.32	ND	ND	ND	1.1	0.22	ND	ND	0.33	0.50	0.49
ODOR (TON)	3.0	1.2	1.3	1.4	1.0	1.0	1.5	1.2	1.2	1.0	ND	1.2
pH (units)	6.5 - 8.5	7.1	7.3	7.1	7.4	7.0	7.5	7.4	6.9	6.9	7.0	7.2
SODIUM (mg/L)	NS	10.1	10.2	10.4	9.0	9.7	10.0	7.5	7.9	9.5	13.7	9.8
SPECIFIC CONDUCTANCE (µmho/cm @ 25°C)	NS	130.5	176.6	138.4	171.7	112.8	244.0	161.5	96.4	105.3	77.2	141.4
SULFATE (mg/L)	250	7.7	7.7	7.1	2.6	4.2	4.1	3.3	3.6	3.7	3.4	4.7
TOTAL DISSOLVED SOLIDS (mg/L)	500	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
ADDITIONAL PARAMETERS												
ALKALINITY as CaCO3(mg/L)	NS	44	69	48	61	35	113	60	33	40	24	53
CALCIUM (mg/L)	NS	9.3	15.4	10.2	12.2	7.5	25.6	13.1	6.4	7.6	4.0	11.1
HARDNESS as CaCO3 (mg/L)	NS	39	65	43	53	31	104	53	28	33	16	47
HARDNESS (grains/gal)	NS	2.3	3.8	2.5	3.1	1.8	6.1	3.1	1.6	1.9	0.9	2.7
PHOSPHATE (mg/L)	NS	1.0	1.1	0.9	1.0	1.1	1.1	1.1	1.0	1.2	0.9	1.0
TEMPERATURE (° C)	NS	21.2	17.9	17.2	18.7	20.9	18.8	18.2	17.5	18.0	21.4	19.0
TEMPERATURE (° F)	NS	70.2	64.2	63.0	65.7	69.6	65.8	64.8	63.5	64.4	70.5	66.2