A Message from Our General Manager

It is an honor to present to you this year's Annual Water Quality Report. This report is an overview of last year's water quality. We are committed to providing you with the enclosed information because informed customers are our best allies. The report has been prepared to meet the requirements of the 1996 Safe Drinking Water Act (SDWA) adopted by Congress and to provide our customers with information about their water system. The changing requirements of the water industry has continued to keep our Staff focused on the future needs of the system as well as watching the bottom line.

The water provided to you by Central Elmore Water & Sewer Authority (CEW&SA) once again meets or exceeds all state and federal water quality regulations. We are pleased to inform you that CEW&SA has never had a violation of contamination levels in the water we supply you, our valued customers.

With infrastructure aging across the country, the federal government has allocated an extreme amount of money to alleviate some of the burdens on struggling water systems. CEW&SA is doing its part to obtain some of that funding. The projects we are proposing will allow us to secure the integrity of this system for many years to come.

During 2021, CEW&SA continued to experience growth within our service territory even with increasing inflation. We have seen an increase of 251 connections or 2% increase since last year. The goal of CEW&SA is to provide customers with a safe, reliable supply of drinking water that can be used with assurance at the lowest possible cost while maintaining the highest quality. This is our promise to you, the customer.

The last year has been full of changes. CEW&SA has lost many useful years of experience. Our Plant Manager is retiring in 2022, but rest assured that the incoming Plant Manager, Jimmy Brown, will continue to provide quality drinking water for each of you. Mr. Brown has been with CEW&SA since the plant was built. Mr. Brown brings a wealth of knowledge from the maintenance side of the Filter Plant.

I encourage you to take the time to read this report. If you have any questions concerning this report or CEW&SA, please contact me, Chad Shaw, General Manager, at 334-567-6814, Monday - Friday, 7:30 a.m. to 4:30 p.m. and I will be glad to address any concerns you may have. Regularly scheduled Board meetings are held at 12:00 p.m. on the third Tuesday of each month at the main office located at 716 US Hwy 231, in Wetumpka. CEW&SA Board members are as follows: Chairman – Fred Braswell and Vice-Chairman –Bill Newton. Again, please feel free to contact me with any questions or concerns you may have involving Central Elmore Water and Sewer Authority.

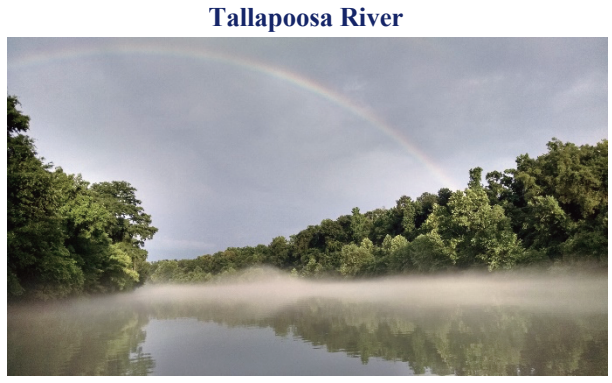
Chadwick E. Shaw, P.E.
General Manager

Happening at the Plant…

This will be my final update from the Filter Plant for CEW&SA. After serving as the Plant Manager for 19 years and a career totaling 33 years, I am retiring in May. It has been my pleasure to serve you and an honor to be entrusted with the operations and management of CEW&SA's water plant. The plant is being left in capable hands that will continue to produce water of the highest quality. This year's report details that the water produced in 2021 meets or exceeds regulatory standards. CEW&SA is continuing to address the issue of taste and odor. A yearlong pilot study using granular activated carbon is being conducted as a treatment option. Results so far have been promising. Please take the time to read the report and if you have any questions call 334-512-0480 to speak with Jimmy Brown.

Sincerely,
Patrick Morgan, Plant Manager

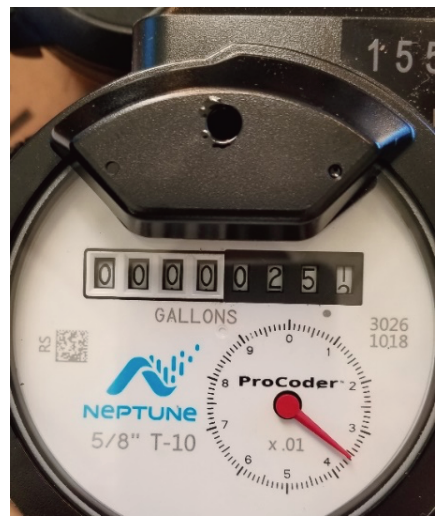
Tallapoosa River



System Flushing

You may on occasions see hydrants that flush slowly for several days. Any time there is a leak air enters the mains. This air must be removed and flushing slowly at certain locations relieves the mains of the air. Air can cause the water to be milky, but it is safe to drink. There are also times when we must flush for ADEM requirements. We usually try to have a small yellow sign on the hydrant while flushing. Call us at the office if you suspect the hydrant is flowing unintentionally. If you see someone filling anything from a hydrant, call the office immediately. Thank you.

Reading Your Meter



5/8" Meters – This is the standard meter for residential customers. Note the last digit is 1/10 of a gallon. It reads 0000025.1 gallons. CEW&SA reads all the white numbers and one black number for billing. These new meters read very similar to the old meters. 5/8", ¾", and 1" meters read the same way. The red needle is the leak indicator. 1 full rotation = 0.1 gallon of water. The 10-digit meter number is on the top right of the meter starting with 155 or 156. Visit www.cewsa.com for more information. You have to flip the black lid up to read meter face. The black knob does not turn off meter or turn pressure up or down.

Notice: Please make sure your contact information is updated at the office. If we find a leak on your service line, we will make an attempt to contact you.

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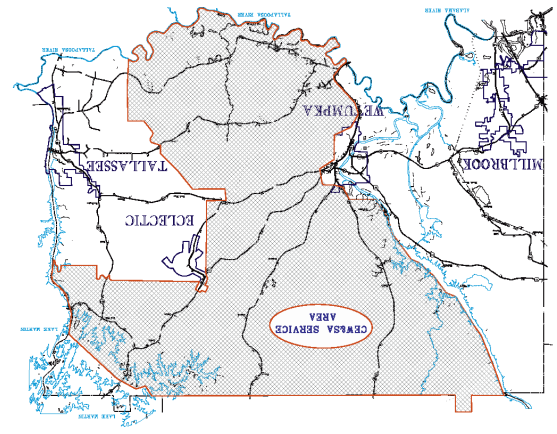

total of almost 7.7 million gallons.

Our territory covers approximately 350 square miles out of the 657 square miles contained in Elmore County. We currently maintain over 750 miles of water lines in our territory along with 12 water storage facilities holding a

Central Elmore Water & Sewer Authority maintains and operates a 12-million gallon per day surface water treatment plant at our primary water source on Lake Martin. Here at Central Elmore Water & Sewer Authority we serve approximately 12,862 customers of our own; along with four fulltime neighboring utilities, Rockford (1,353 customers), Friendship (1,332 customers), Eclectic (1,675 customers), and Wetumpka (3,467 customers). Each customer refers to a meter served, which translates into approximately 62,067 persons served by Central Elmore Water & Sewer Authority.

Safety and security have always been our top priorities. Central Elmore Water and Sewer Authority strives to deliver safe drinking water to our customers and to keep the utility secure and protected. The Source Water Assessment was updated in 2018 and no problems were found. It is continually monitored and can be viewed at the main office. We are proud to deliver this annual report covering the year 2021.

PWS # 0005047

Central Elmore Water
And Sewer Authority
2021 Annual Water Quality Report

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Board of Directors

Fred Braswell – Chairman

Bill Newton – Vice-Chairman

Vacant – Director

Chad Shaw – General Manager

Tina Stanley – Secretary

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PRESENTED TO OUR CUSTOMERS BY:

2021 Annual Water Quality Report

Special Health Information:

Some people may be more vulnerable to contaminates in drinking water than the general population. Immuno-compromised persons such as persons with cancer undergoing chemotherapy, persons who have undergone organ transplants, people with HIV/AIDS or other immune system disorders, some elderly, and infants can be particularly at risk from infections. These people should seek advice about drinking water from their health care providers. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium and other microbial contaminants are available from the Safe Drinking Water Hotline (1-800-426-4791)

All drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily indicate that water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline.

General Information about Drinking Water Contaminants:

The sources of drinking water (both tap water and bottled water) include rivers, lakes, streams, ponds, reservoirs, springs, and wells. As water travels over the surface of the land or through the ground, it dissolves naturally occurring minerals and, in some cases, radioactive material, and can pick up substances resulting from the presence of animals or from human activity.

Contaminants that may be present in source water include:

**Microbial contaminants, such as viruses and bacteria, which may come from sewage treatment plants, septic systems, agricultural livestock operations, and wildlife. **Inorganic contaminants, such as salts and metals, which can be naturally-occurring or result from urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining, or farming. **Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, and residential uses. **Organic chemical contaminants, including synthetic and volatile organic chemicals, which are byproducts of industrial processes and petroleum production, and can also, come from gas stations, urban storm water runoff, and septic systems. **Radioactive contaminants, which can be naturally occurring or be the result of oil and gas production and mining activities.

If present, elevated levels of lead can cause serious health problems, especially for pregnant women and young children. Lead in drinking water is primarily from materials and components associated with service lines and home plumbing. CEW&SA is responsible for providing high quality drinking water but cannot control the variety of materials used in plumbing components. When your water has been sitting for several hours, you can minimize the potential for lead exposure by flushing your tap for 30 seconds to 2 minutes before using the water for drinking or cooking. If you are concerned about lead in your water, you may want to have your water tested. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available from the Safe Drinking Water Hotline or at http://www.eps.gov/safewater/lead.

Based on a study conducted by ADEM with the approval of the EPA a statewide waiver for the monitoring of asbestos and dioxin was issued. Thus, monitoring for any of these contaminants was not required.

Definitions:

Maximum Contaminant Level (MCL): The highest level of a contaminant that is allowed in drinking water. MCLs are set as close to the MCLGs as feasible using the best available treatment technology.

Maximum Contaminant Level Goal (MCLG): The level of a contaminant in drinking water below which there is no known or expected risk to health. MCLGs allow for a margin of safety.

90th Percentile: 90% of samples are equal to or less than the number in the chart.

Maximum Residual Disinfectant Level Goal (MRDLG): The level of a drinking water disinfectant below which there is no known or expected risk to health. MRDLGs do not reflect the benefits of the use of disinfectants to control microbial contaminants.

Maximum Residual Disinfectant Level or (MRDL): The highest level of a disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.

NA: Not applicable.

ND: Not detectable at testing limits.

PPB or parts per billion: micrograms per liter (ug/l).

PPM or parts per million: milligrams per liter (mg/l).

Action Level or AL: The concentration of a contaminant, which, if exceeded, triggers treatment or other requirements, which a water system must follow.

Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water.

NTU or Nephelometric Turbidity Units: A measure of clarity.

Table of Detected Contaminants (2021)

CONTAMINANT	MCLG	MCL	Units	CEWSA		Likely Source of Contamination
Bacteriological	**Jan 1, 2021- Dec 31, 2021**			**Highest Detected**	**Range of Detected**	
Total Coliform Bacteria	NA	< 5%	Present or Absent	Coliform Absent	Coliform Absent	Naturally present in the environment
E coli	0	0	Present or Absent	E. coli Absent	E. coli Absent	Human and animal fecal waste
Turbidity	NA	TT	NTU	0.07	.017 - .070	Soil runoff
Radiological	**Jan 1, 2021- Dec 31, 2021**			**Highest Detected**	**Range of Detected**	
Radium 228	NA	15	PCI/L	ND	ND	Erosion of natural products
Inorganic Chemicals	**Jan 1, 2021- Dec 31, 2021**			**Highest Detected**	**Range of Detected**	
Copper	1.3	AL=1.3	ppm	.130= (90th) Percentile	Zero sites above action	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Lead	0	AL=.015	ppm	.0004= (90th) Percentile	Zero sites above action	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Fluoride	4	4	ppm	0.99	0.52 - 0.99	Erosion of natural deposits; water additive which promotes strong teeth; discharge from fertilizer and aluminum factories
Nitrite	1	1	ppm	ND	ND	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Nitrate	10	10	ppm	0.064	0.064	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Barium	2	2	ppm	0.011	0.011	Discharge of drilling wastes; Discharge from metal refineries; Erosion of natural deposits
Antimony	0.001	0.001	ppm	ND	ND	Discharge from petroleum refineries; fire retardants; ceramics; electronics; solder
Arsenic	0	0.001	ppm	0.0003	0.0003	Erosion of natural deposits; Runoff from orchards; Runoff from glass and electronics production wastes
Organic Chemicals	**Jan 1, 2021- Dec 31, 2021**			**Highest Detected**	**Range of Detected**	
TTHM	NA	0.08	ppm	0.035	.010 - .035	By-product of drinking water chlorination
Haloacetic Acid	NA	0.06	ppm	0.016	.007 - .016	By-product of drinking water chlorination
Total Organic Carbon(TOC)	NA	TT	ppm	1.22	.93 - 1.22	Naturally present in the environment
Chlorine Dioxide	0	0.80	ppm	0.55	.06 - .55	Water additive used to control microbes
Chlorite	0	1.00	ppm	0.86	.31 - .86	By-product of drinking water disinfectant
Xylenes	10	10	ppm	ND	ND	Discharge from petroleum factories; Discharge from chemical factories

Unregulated Contaminants Table (2021)

CONTAMINANT	Average Detected Level	CONTAMINANT	Average Detected Level
1,1 - Dichloropropene	ND	Chloroform	0.017
1,1,1,2-Tetrachloroethan	ND	Chloromethane	ND
1,1,2,2-Tetrachloroethan	ND	Dibromochloromethane	0.0010
1,1-Dichloroethane	ND	Dibromomethane(ppb)	ND
1,2,3 - Trichlorobenzene	ND	Dicamba	ND
1,2,3 - Trichloropropane	ND	Dichlorodifluoromethane	ND
1,2,4 - Trimethylbenzene	ND	Dieldrin	ND
1,3 - Dichloropropane	ND	Hexachlorobutadiene	ND
1,3 - Dichloropropene	ND	Isoprpylbenzene	ND
1,3,5 - Trimethylbenzene	ND	M-Dichlorobenzene	ND
2,2 - Dichloropropane	ND	Methomyl	ND
3-Hydroxycarbofuran	ND	MTBE	ND
Aldicarb	ND	Metolachlor	ND
Aldicarb Sulfone	ND	Metribuzin	ND
Aldicarb Sulfoxide	ND	N - Butylbenzene	ND
Aldrin	ND	Naphthalene	ND
Bromobenzene	ND	N-Propylbenzene	ND
Bromochloromethane	ND	O-Chlorotoluene	ND
Bromodichloromethane	0.004	P-Chlorotoluene	ND
Bromoform	ND	P-Isopropyltoluene	ND
Bromomethane	ND	Propachlor	ND
Butachlor	ND	Sec - Butylbenzene	ND
Carbaryl	ND	Tert - Butylbenzene	ND
Chloroethane	ND	Trichlorfluoromethane	ND

Secondary & Physical Contaminants Table

CONTAMINANT	Highest Detected	CONTAMINANT	Highest Detected
Aluminum	0.022	Total Alkalinity (ppm)	33
Calcium (ppm)	2.35	Chloride (ppm)	13.5
Magnesium (ppm)	1.1	Sulfate (ppm)	11.9
Manganese (ppm)	0.010	Total Disolved Solids (ppm	77
Nickel	0.001	pH (su)	8.6
Silver	ND	Odor	None
Zinc (ppm)	ND	Iron (ppm)	0.060
Hardness (ppm)	10.2	Sodium (ppm)	17.9
Color (units)	6	Potassium (ppm)	NA
Copper (ppm)	0.025	Carbon Dioxide (ppm)	17.6
Specific Conductance	116	Foaming Agents(ppm)	ND

2021 CCR DATA

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Water Loss In Gallons

Leak this Size	Loss Per Day	Loss Per Month	Leak this Size	Loss Per Day	Loss Per Month
.	120	3,600	●	6,640	199,520
•	300	10,800	●	6,964	209,520
•	693	20,790	●	8,424	252,720
•	1,200	36,000	●	9,585	296,640
●	1,920	57,600	●	11,324	339,720
●	3,095	92,880	●	12,750	361,600
●	4,295	128,880	●	14,952	448,560

Table of Primary Contaminants (2021)

At high levels some primary contaminates are known to pose a health risk to humans. This table provides a glance of any primary contaminant detections. ADEM now requires us to place all that are tested for on here even though most were not detected, costi

CONTAMINANT	MCL	AMOUNT DETECTED	CONTAMINANT	MCL	AMOUNT DETECTE
Bacteriological			Endothall	100	ND
Total Coliform Bacteria	< 5%	0	Endrin	2	ND
E coli	0	0	Epichlorohydrin	TT	ND
Total Carbon (TOC)	TT	1.22	Glyphosate	700	ND
Turbidity	TT	0.07	Haloacetic Acid(ppm)	0.06	0.016
Radiological			Heptachlor	400	ND
Beta/photon emitters (mrem/y	4	ND	Heptachlor epoxide	200	ND
Alpha emitters (pci/l)	15	ND	Hexachlorobenzene	1	ND
Combined radium (pci/l)	5	ND	Hexachloropentadiene	1	ND
Inorganic			Lindane	200	ND
Antimony (ppm)	0.001	ND	Methoxychlor	40	ND
Arsenic (ppm)	0.001	0.0003	Oxamyl [Vydate]	200	ND
Asbestos (MFL)	7	NA	PCBs	500	ND
Barium (ppm)	2	0.011	Pentachlorophenol	1	ND
Beryllium (ppm)	0.004	ND	Picloram	500	ND
Cadmium (ppm)	0.005	ND	Simazine	4	ND
Chromium (ppm)	0.1	0.0003	Toxaphene	3	ND
Copper (ppm)	AL=1.3	0.130	Benzene	5	ND
Cyanide (ppm)	0.2	ND	Carbon Tetrachloride	5	ND
Fluoride (ppm)	4	0.52	Chlorobenzene	100	ND
Lead (ppm)	AL=.01	0.0004	Dibromochloropropane	200	ND
Mercury (ppm)	0.002	ND	0-Dichlorobenzene	600	ND
Nitrate (ppm)	10	0.064	p-Dichlorobenzene	75	ND
Nitrite (ppm)	1	ND	1,2-Dichloroethane	5	ND
Selenium(ppm)	0.05	ND	1,1-Dichloroethylene	7	ND
Thallium(ppm)	0.001	0.0001	Cis-1,2-Dichloroethylen	70	ND
Chlorine(ppm)	4	2.1	trans-1,2-Dichloroethylene	100	ND
Organic Chemicals			Dichloromethane	5	ND
2,4-D	70	ND	1,2-Dichloropropane	5	ND
2,4,5-TP (Silvex)	50	ND	Ethylbenzene	700	ND
Acrylamide	TT	ND	Ethylene dibromide	50	ND
Alachlor	2	ND	Styrene	100	ND
Atrazine	3	ND	Tetrachloroethylene	5	ND
Benzo(a)pyrene[PHAs]	200	ND	1,2,4-Trichlorobenzene	0.07	ND
Carbofuran	40	ND	1,1,1-Trichloroethane	200	ND
Chlordane	2	ND	1,1,2-Trichloroethane	5	ND
Dalapon	200	ND	Trichloroethylene	5	ND
Di-(2-ethylhexyl)adipate	400	ND	TTHM(ppm)	0.08	0.035
Di(2-ethylhexyl)phthlates(ppb	6	ND	Toluene	1	ND
Dinoseb	7	ND	Vinyl Chloride	2	ND
Diquat	20	ND	Xylenes(ppm)	10	ND
Dioxin[2,3,7,8-TCDD]	30	ND			
Chlorine Dioxide(ppm)	0.80	0.55			
Chlorite(ppm)	1	0.86			

Detected Un-Regulated Contaminant Table 2021

CONTAMINANT	Average Detected Level	Range of Detected Levels
Bromodichloromethane (ppm)	0.004	.002 - .006
Bromoform (ppm)	ND	ND
Trichloroacetic acid (ppm)	0.003	.002-.004
Dichloroacetic acid (ppm)	0.010	.007-.012
Chloroform(ppm)	0.017	.004 - .028
Dibromochloromethane(ppm)	0.001	.001 - .0008
Dibromoacetic acid (ppm)	ND	ND
Monochloroacetic acid (ppm)	0.0008	ND - .002
Monobromoacetic acid (ppm)	ND	ND
Dibromomethane(ppb)	ND	ND

In addition to the primary drinking water contaminants, the utility monitors regularly for some of the following unregulated and secondary contaminants as regulated by the Alabama Department of Environmental Management. The ADEM has proposed regulations under consideration at the time of this publication to require any detects to be reported in all subsequent water quality reports. The requirement of this additional monitoring and reporting will further ensure the safety of your drinking water and will keep you, as a utility customer, more informed. At CEW&SA, we make it a priority to keep you and your family safe. We test your water for approximately 150 possible contaminants. Of the many contaminants tested, only a few above were at levels of detection. They were no where near alert levels. ADEM requires us to put them all on this report even though most were not detected. ND = NOT DETECTED

Detected Secondary & Physical Contaminants 2021

CONTAMINANT	Highest Detected Level	Range of Detected Levels
Calcium (ppm)	2.35	2.35
Carbon Dioxide (ppm)	17.6	7.0 - 17.6
Chloride (ppm)	13.5	13.5
Color (units)	6	0 - 6
Copper (ppm)	0.130	ND - .130
Hardness (ppm)	10.2	10.2
Iron (ppm)	0.060	ND - .060
Magnesium (ppm)	1.1	1.1
pH (su)	8.6	6.9 - 8.6
Potassium	NA	NA
Sodium (ppm)	17.9	17.9
Specific Conductance (umhos)	116	116
Sulfate (ppm)	11.9	11.9
Total Alkalinity (ppm)	33	15-33
Total Dissolved Solids (ppm)	77	77
Zinc (ppm)	ND	ND
Aluminum (ppm)	0.022	0.022
Manganese (ppm)	0.010	ND - .010
Foaming Agents (ppm)	ND	ND