# JERRY PLOTT WATER PLANT RECEIVES OPTIMIZATION AWARD

In October 2017, the Alabama Department of Environmental Management recognized the City of Tuscaloosa's Jerry Plott Water Filtration Plant for achieving an optimized level of performance. To win this award, the plant must exceed the established requirements of the United States Environmental Protection Agency by a factor of three or more for the entire year. This was the fourth consecutive year the plant has received this award. Please join us in thanking the staff of the City of Tuscaloosa Water Treatment Plants for their dedication to ensure that our customers receive the best possible water quality.



Anissa Merriweather and Heath Plowman receive the 2017 Optimization Award

### THE COST OF DRINKING WATER

The price of a bottle of water has hidden factors that are often not considered when adding up the cost of the product. Consumers



may not think about environmental factors when they purchase water, but there are many: oil and water to make the bottle; fuel to transport the water; and a place for the bottle to decompose over the next 400 to 1,000 years. The EPA estimates that only 10-27% of drink bottles are recycled. The remainder end up in landfills or worse, the open environment. The City provides recycling for plastics in many neighborhood either at recycling trailers or through curbside pickup. Drinking tap water helps reduce the need for plastic bottles that wind

up impacting our environment, but there is another benefit, as well. Instead of paying \$10 per gallon for bottled water, the City of Tuscaloosa consumers can get fresh clean tap water for just under 3¢ per gallon. That's 748 gallons for only \$2.16!

# THE SOURCE OF OUR DRINKING WATER

Lake Tuscaloosa is our primary source for drinking water. It is a 5,885-acre impoundment of North River and several other creeks and holds over 40 billion gallons of excellent quality water. Lake Nicol and Harris Lake are our alternate sources of water. Currently, Harris Lake is used for industrial water.

The City of Tuscaloosa has published the required Source Water Assessment data. The data may be viewed in the Business Office at 2230 6th Street.

# **OUR WATER TREATMENT PROCESSES**

Two water filtration facilities supply water to nearly 200,000 customers in the metropolitan Tuscaloosa area 24-hours a day, 365 days a year: The Ed Love Water Filtration Plant and the Jerry Plott Water Filtration Plant.

The Ed Love facility uses conventional technology to treat water. The process begins with raw water receiving a dose of chlorine dioxide and then entering a flash mixer where the addition of aluminum sulfate and lime rapidly begins coagulation. On rare occasions, sodium permanganate is added to aid in the removal of iron and manganese, and control taste and odor. The water then travels through four flocculators and four settling basins.

The water moves through filters layered with anthracite coal and "torpedo" sand, which is special for filtration because of its uniformity. Lime addition balances the pH and aids with corrosion control, and sodium hypochlorite disinfects the filtered water. Zinc polyphosphate dosing controls corrosion. The Ed Love facility also adds fluoride to aid in the prevention of tooth decay. After this process is completed, the finished water is pumped into the water distribution system.

While the same basic treatment is used at the Jerry Plott facility, the chemicals and technique vary. Coagulation starts in a flash mixer with poly aluminum chloride. As the water passes through one of two flocculators, it enters one of two settling basins. Settling is accelerated with a series of settling plates.

The settled water is then pumped to seven membrane filter racks. Using pressure, the water is squeezed through the pores of the membranes while impurities are left behind. Sodium hydroxide is added for pH control, as well as sodium hypochlorite, fluoride, and zinc phosphate. The finished water then goes to the water distribution system. These steps ensure that water produced at both plants is similar.

Thirty-four full-time employees, responsible for producing water that meets all state and federal drinking water standards, maintain the Ed Love Water Filtration Plant and the Jerry Plott Water Filtration Plant, which have been serving the West Alabama area since 1976 and 2008 respectively.

Water Mains in Service, 4" and larger	692 Miles
Water Storage Tanks	13 Tanks
Water Booster Pump Stations	10 Stations
Water Storage Capacity	.25.4 Million Gallons
Ed Love Treatment Capacity45.7	Million Gallons/Day
Jerry Plott Treatment Capacity14	Million Gallons/Day
Public Fire Hydrants	3581 Hydrants

# The City of Tuscaloosa's Mayor and Council

Walt Maddox. Mavor Phyllis W. Odom. Dist. 1 Raevan Howard. Dist. 2 Cynthia Lee Almond. Dist. 3 Dist. 4 Matthew Calderone, Kip Tyner, Dist. 5 Eddie Pugh. Dist. 6 Sonva McKinstry. Dist. 7

The Tuscaloosa City Council meets every Tuesday at 6 p.m. in the Council Chambers on the second floor of Tuscaloosa City Hall, 2201 University Boulevard. The Tuscaloosa News publishes the agenda for each meeting and the City of Tuscaloosa posts the agenda on the website <a href="https://www.tuscaloosa.com">www.tuscaloosa.com</a>. You may contact the City Clerk for more information at 205 248-5010.

# IMPORTANT CONTACT INFORMATION

# **Tuscaloosa 311 Call Center**

Operational Hours: Mon. – Fri. 7 a.m. – 7 p.m. Dial 311

Calling 311 connects you to all nonemergency City Services. Make one Call to City Hall.

### Water Billing Office Turn On/Turn Off

Office Hours: Mon. – Fri. 7 a.m. – 5 p.m. 205- 248-5500 Drive Though: Mon. – Fri. 7 a.m. – 5 p.m.

### **Lakes Division**

Office Hours: Mon. – Fri. 7 a.m. – 3:30 p.m. 205- 349-0279

#### Distribution Division Line Breaks/Leaks

Office Hours: Mon. – Fri. 7 a.m. – 3:30 p.m. 205- 248-5950

# PARTICIPATE IN PROTECT OUR WATER SOURCE

During Lake Cleanup days in 2017, over 96 registered volunteers and 16 boats removed over 3,520 lbs. of trash. Most of that waste consisted of plastic. The average plastic drink bottle takes 450 years to degrade. Even though the City will not host an official Lake Cleanup Day in 2018, every day someone removes trash from Lake Tuscaloosa, it is Lake Cleanup Day. For information on upcoming events, email or call Dana Willingham at <a href="mailto:dwillingham@tuscaloosa.com">dwillingham@tuscaloosa.com</a> or 205-349-0279.





# Tera Tubbs Executive Director

# 2018 ANNUAL WATER QUALITY REPORT



Jerry Plott Water Filtration Plant 2101 New Watermelon Road Tuscaloosa, Alabama 35406-4617 Telephone 205-248-5600



Ed Love Water Filtration Plant 1125 Jack Warner Parkway North East Tuscaloosa, Alabama 35404-1056 Telephone 205-248-5630 Fax 205-349-0213

For Additional Information, Contact:

Stephen Daly, Deputy Director, Water & Sewer Process Assets

# THE SAFE DRINKING WATER ACT

The Safe Drinking Water Act (SDWA) was signed into law on December 16, 1974. The purpose of the law is to ensure that the nation's water supply systems that serve the public meet minimum national standards for the protection of public health.

The SDWA directed the U.S. Environmental Protection Agency (EPA) to establish national drinking water standards. 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 the water poses a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA Safe Drinking Water Hotline 800-426-4791 or by visiting EPA's website www.epa.gov/safewater.

Amended in 1996, the SDWA contains provisions for consumer involvement and right-to-know. The Consumer Confidence Report or Annual Water Quality Report is the centerpiece of public right-to-know in SDWA. This report provides consumers the detected amounts of contaminants, sources of contamination, and plain language definitions.

The amendments recognized that some people may be more vulnerable to contaminants in drinking water than the general population. People who are immuno-compromised such as cancer patients undergoing chemotherapy, organ transplant recipients, HIV/AIDS positive or other immune system disorders, some elderly, and infants can be particularly at risk from infections. People at risk 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 <u>Safe Drinking Water Hotline 1-800-426-4791</u>.

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 radioactive material, and it can pick up substances resulting from the presence of animals or from human activity.

# **PLAIN LANGUAGE DEFINITIONS**

- Maximum Contaminant Level Goal or 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.
- Maximum Contaminant Level or 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 Residual Disinfectant Level Goal or 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.

#### PLAIN LANGUAGE DEFINITIONS continued

- 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.
- Treatment Technique or TT: A required process intended to reduce the level of a contaminant in drinking water
- Action Level or AL: The concentration of a contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.

### **EPA LEAD AND COPPER STATEMENT**

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. The City of Tuscaloosa is responsible for providing high quality drinking water, but cannot control the variety of materials used in the 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 water for drinking or cooking. If you are concerned with lead in your water, you may wish 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.epa.gov/safewater/lead.

### TUSCALOOSA'S LEAD AND COPPER PROGRAM

Since 1991, the City of Tuscaloosa has tested 57 homes annually for the presence of lead and copper. Because of the civic engagement of these citizens, this program continues to be very successful. The City has always maintained compliance with this regulation. We would like to applaud those 57 participants for their support of this endeavor.

In the following tables, you may find terms and abbreviations that might not be familiar to you. To help you better understand these terms, we have provided the following definitions:

- ppm parts per million and is equal to mg/L or milligrams per liter
- ppb parts per billion and is equal to µg/L or micrograms per liter
- ppt parts per trillion and is equal to ng/L or nanograms per liter
- pCi/L picocuries per liter, a measure of radiation
- ntu Nephelometric Turbidity Units
- fu Colony Forming Units
- MFL million fibers per liter longer than 10 micrometers
- N/A not applicable
- **ID** not detected

### WATER QUALITY REPORT

PRIMARY DRINKING WATER PARAMETERS

# WATER SOURCE LAKE TUSCALOOSA

DETECTED CONTAMINANTS
MICROBIOLOGICAL
All results meet or surpass Federal Drinking Water Regulation:

Period Covered: 12 Months Ending December, 2017	Units	MCI	MCLG	Highest Level in Distribution System	Range of Detections	Violation (Yes / No)	Major Sources in Drinking Water	
	_	nce of	MOLO	-,		,	,	
		nice or oliform						
		in <5%		Coliform				
		120		Present in				
		ired		1.00 % of				
Total Coliform	mor			samples in	Not detected		Naturally present in the	
Bacteria	sam	ples	0	one month	1.00 %	No	environment	
In 20	17, 5 o	f 2503	samples	were positiv	ve for Total	Coliforr	m, or only 0.20%.	
Total Organic Carbon	mg/L	TT	N/A	2.2	1.4 - 2.2	No	Naturally present in the environment	
Turbidity	NTU	0.3	N/A	0.131	0.011- 0.131	No	Soil Runoff -Turbidity can interfere with disinfection	
Chlorine as Cl <sub>2</sub>	mg/L	4	4	2.8	0.2 - 2.8	No	Water additive used to control microbes	
Chlorine Dioxide as CIO <sub>2</sub>	mg/L	0.8	0.8	0.16	0.0 - 0.16	No	Water additive used to control microbes	
Chlorite as CIO <sub>2</sub>	mg/L	1	1	0.685	0.214 - 0.685	No	Water additive used to control microbes	
A	RADIOLOGICAL All results meet or surpass Federal Drinking Water Regulations							
					0.0+/-0.5 -			

Gross Alpha	pCi/L	15	0	1.5+/-1.2	1.5+/-1.2	No	Erosion of natural deposits		
INORGANIC CHEMICALS									
All results meet or surpass Federal Drinking Water Regulations									
							Erosion of natural deposits; Water		
							additive which promotes strong teeth;		
							Discharge from fertilizers and		
Fluoride as F	mg/L	4	4	0.89	0.31- 0.89	No	aluminum factories		
							Runoff from fertilizer use; Leaching		
					0.23 -		from septic tanks, sewage; Erosion of		
Nitrate as NO3 <sup>-</sup> -N	mg/L	10	10	0.26	0.26	No	natural deposits		
Sulfate as SO <sub>4</sub>	mg/L	50	50	29.1	13.0 - 29.1	No	Erosion of natural deposits		

All results meet or surpass Federal Drinking Water Regulations							
Period Covered: 12 Months Ending December, 2017	Units	MCL	MCLG	Average Level in Distribution System	Range of Detections	Violation (Yes / No)	Major Sources in Drinking Water
					13.1 -		By-product of drinking water
Haloacetic Acids	μg/L	60	N/A	42.4	42.4	No	chlorination
The sum of Dibromoacetic, Dichloroacetic, Monobromoacetic, Monochloroacetic, and Trichloroacetic Acids							
annual average MCL is equal to or less than 60 μg/L.							
Total					20.4 -		By-product of drinking water

Trihalomethanes | µg/L | 80 | N/A | 72.5 | 72.5 | No | chlorination

The sum of Chloroform, Bromodichloromethane, Dibromochromethane and Bromoform annual average | MCL | sequal to or [less than 80 µg/L |

LEAD AND COPPER PRIMARY MONITORING All results meet or surpass Federal Drinking Water Regulations							
Period Covered: 12 Months Ending December, 2017	Units	MCL	MCLG	Highest Level in Distribution System	Range of Detections	Violation (Yes / No)	Major Sources in Drinking Water
Lead as Pb	mg/L	AL= 0.015	0	<0.005	<0.005 - <0.005	No	Corrosion of household plumbing system; Erosion of natural deposits
Copper as Cu	mg/L	AL= 1.3	1.3	0.389	<0.050 - 0.389	No	Corrosion of household plumbing system; Erosion of natural deposits; Leaching from wood preservatives
There were no violation	one Mc	re than	90% of	the samples	were helov	the ac	ction level. No lead and no copper

There were no violations. More than 90% of the samples were below the action level. No lead and no copport results were above the action level.

results were above the determinate.									
ORGANIC CHEMICALS UNREGULATED CONTAMINANTS									
	All resu	lts me	et or sur	pass Feder	al Drinking	Water	Regulations		
Period Covered: 12 Months Ending December, 2017	Units	MCL	MCLG	Highest Level in Distribution System	Range of Detections	Violation (Yes / No)	Major Sources in Drinking Water		
Bromodichloro- methane	μg/L	N/A	N/A	4.13	0.367- 4.13	No	By-Product of drinking water chlorination		
Chloroform	μg/L	N/A	N/A	7.03	4.84 - 7.03	No	By-Product of drinking water chlorination		
Dibromochloro- methane	μg/L	N/A	N/A	1.69	1.05 - 1.69	No	By-Product of drinking water chlorination		

# WATER QUALITY REPORT

TABLE OF PRIMARY DRINKING WATER PARAMETERS: MONITORING PERIOD ENDING DECEMBER, 2017 WATER SOURCE LAKE TUSCALOOSA

	WATER	SOURCE	LAKE TU
MICROB	IOLOGICAL		
		Highest	
A I. 4 .	l Mai	Level	<sub> </sub>
Analyte	MCL	Detected	Analy
Total Coliform Bacteria	<5%	1.00%	Beta
Turbidity	<0.3 NTU	0.131	Alpha
·	CHEMICALS	0.151	Comb
Antimony as Sb	6 ppb	ND	Urani
Arsenic as As	10 ppb	ND	ordin
Asbestos*	7 MLF	N/A	Endri
Barium as Ba	2 ppm	ND	Epich
Beryllium as Be	4 ppb	ND	Glyph
Cadmium as Cd	5 ppb	ND	Hepta
Chromium as Cr	100 ppb	ND	Hepta
Copper as Cu	AL=1.3 ppm	ND	Hexa
Cyanide as Cn	200 ppb	ND	Hexac
Fluoride as F	4 ppm	0.74	Linda
Lead as Pb	AL=15 ppb	ND	Meth
Mercury as Hg	2 ppb	ND	Oxan
Nitrate as NO3 -N	10 ppm	0.26	PCB'
Nitrite as NO2 <sup>-</sup> -N	1 ppm	ND	Penta
			-
Selenium as Se	1 5() nnh l		
Selenium as Se	50 ppb	ND	Piclo
Thallium as TI	2 ppb	ND	Sima
Thallium as TI DISINFECTION	2 ppb BY-PRODUCTS	ND	Sima: Toxa
Thallium as TI  DISINFECTION Chlorine	2 ppb BY-PRODUCTS 4 ppm	ND 2.8	Sima: Toxa Benz
Thallium as TI  DISINFECTION Chlorine Chloramines	2 ppb N BY-PRODUCTS 4 ppm 4 ppm	ND 2.8 N/A	Sima: Toxa Benz Carbe
Thallium as TI  DISINFECTION Chlorine	2 ppb 8 BY-PRODUCTS 4 ppm 4 ppm 1 ppm	ND 2.8 N/A 0.685	Sima Toxal Benz Carbo Chlor
Thallium as TI  DISINFECTION Chlorine Chloramines Chlorite	2 ppb NBY-PRODUCTS 4 ppm 4 ppm 1 ppm 800 ppb	2.8 N/A 0.685 0.16	Sima Toxa Benz Carbo Chlor Dibror
Thallium as TI  DISINFECTION Chlorine Chloramines Chlorite Chlorine Dioxide Bromate	2 ppb 8 BY-PRODUCTS 4 ppm 4 ppm 1 ppm	ND 2.8 N/A 0.685	Sima Toxal Benz Carbo Chlor
Thallium as TI  DISINFECTION Chlorine Chloramines Chlorite Chlorine Dioxide Bromate Total Organic Carbon	2 ppb NBY-PRODUCTS 4 ppm 4 ppm 1 ppm 800 ppb 10 ppb TT	ND 2.8 N/A 0.685 0.16 N/A 2.2	Sima: Toxal Benz Carbo Chlor Dibror o-Dic p-Dic
Thallium as TI  DISINFECTION Chlorine Chloramines Chlorite Chlorine Dioxide Bromate Total Organic Carbon Total Trihalomathanes	2 ppb  NEY-PRODUCTS  4 ppm 4 ppm 1 ppm 800 ppb 10 ppb TT 80 ppb	2.8 N/A 0.685 0.16 N/A	Sima: Toxal Benz Carbo Chlor Dibror o-Dic
Thallium as TI  DISINFECTION Chlorine Chloramines Chlorite Chlorine Dioxide Bromate Total Organic Carbon Total Trihalomathanes Haloacetic Acids	2 ppb NBY-PRODUCTS 4 ppm 4 ppm 1 ppm 800 ppb 10 ppb TT	ND  2.8  N/A  0.685  0.16  N/A  2.2  72.5	Sima. Toxal Benz Carbo Chlor Dibror o-Dic p-Dic 1,2-D
Thallium as TI  DISINFECTION Chlorine Chloramines Chlorite Chlorine Dioxide Bromate Total Organic Carbon Total Trihalomathanes Haloacetic Acids	2 ppb  184. Ppm 4 ppm 4 ppm 1 ppm 800 ppb 10 ppb TT 80 ppb 60 ppb	ND  2.8  N/A  0.685  0.16  N/A  2.2  72.5	Sima: Toxal Benz Carbo Chlor Dibror o-Dic p-Dic 1,2-D
Thallium as TI DISINFECTION Chlorine Chloramines Chlorite Chlorine Dioxide Bromate Total Organic Carbon Total Trihalomathanes Haloacetic Acids ORGANIC	2 ppb NBY-PRODUCTS 4 ppm 4 ppm 1 ppm 800 ppb 10 ppb TT 80 ppb 60 ppb CHEMICALS	ND  2.8  N/A  0.685  0.16  N/A  2.2  72.5  42.4	Simas Toxal Benz: Carbu Chlor Dibror o-Dic p-Dic 1,2-D 1,1-D cis-1,2
Thallium as TI  DISINFECTION Chlorine Chloramines Chlorite Chlorine Dioxide Bromate Total Organic Carbon Total Trihalomathanes Haloacetic Acids  ORGANIC 2,4-D	2 ppb NBY-PRODUCTS 4 ppm 4 ppm 1 ppm 800 ppb TT 80 ppb 60 ppb CHEMICALS 70 ppb	2.8 N/A 0.685 0.16 N/A 2.2 72.5 42.4	Simaa Toxal Benz Carbo Chlor Dibror o-Dic p-Dic 1,2-D 1,1-D cis-1,2 trans-1
Thallium as TI  DISINFECTION Chlorine Chloramines Chlorine Disinfection Chlorite Chlorine Dioxide Bromate Total Organic Carbon Total Trihalomathanes Haloacetic Acids  ORGANIC 2,4-D 2,4,5-TP(Silvex)	2 ppb N BY-PRODUCTS 4 ppm 4 ppm 1 ppm 800 ppb 10 ppb TT 80 ppb 60 ppb CHEMICALS 70 ppb 50 ppb	ND 2.8 N/A 0.685 0.16 N/A 2.2 72.5 42.4 ND ND	Sima. Toxal Benz. Carbd Chlor Dibror o-Dic p-Dic 1,2-D 1,1-D cis-1,2 trans-1 Dichl 1,2-D
Thallium as TI  DISINFECTION Chlorine Chloramines Chlorite Chlorine Dioxide Bromate Total Organic Carbon Total Trihalomathanes Haloacetic Acids  ORGANIC 2,4-D 2,4,5-TP(Silvex) Acrylamide	2 ppb N SY-PRODUCTS 4 ppm 4 ppm 1 ppm 800 ppb 10 ppb TT 80 ppb 60 ppb CHEMICALS 70 ppb 50 ppb TT 2 ppb	ND 2.8 N/A 0.685 0.16 N/A 2.2 72.5 42.4 ND ND	Sima. Toxal Benz. Carbd Chlor Dibror o-Dic 1,2-D 1,1-D cis-1,2 trans-1 Dichle 1,2-D Ethyll
Thallium as TI  DISINFECTION Chlorine Chloramines Chlorite Chlorine Dioxide Bromate Total Organic Carbon Total Trihalomathanes Haloacetic Acids ORGANIC 2,4-D 2,4,5-TP(Silvex) Acrylamide Alachlor	2 ppb N BY-PRODUCTS 4 ppm 4 ppm 1 ppm 800 ppb 10 ppb TT 80 ppb 60 ppb CHEMICALS 70 ppb 50 ppb	ND 2.8 N/A 0.685 0.16 N/A 2.2 72.5 42.4 ND ND ND	Sima. Toxal Benz. Carbd Chlor Dibror o-Dic p-Dic 1,2-D 1,1-D cis-1,2 trans-1 Dichl 1,2-D
Thallium as TI  DISINFECTION Chlorine Chloramines Chlorite Chlorine Dioxide Bromate Total Organic Carbon Total Trihalomathanes Haloacetic Acids ORGANIC 2,4-D 2,4,5-TP(Silvex) Acrylamide Alachlor Atrazine	2 ppb N SY-PRODUCTS 4 ppm 4 ppm 1 ppm 800 ppb 10 ppb 60 ppb 60 ppb CHEMICALS 70 ppb 50 ppb TT 2 ppb 3 ppb	ND  2.8  N/A  0.685  0.16  N/A  2.2  72.5  42.4  ND  ND  ND  ND  ND	Sima: Toxal Benz Carbo Chlor Dibror o-Dic p-Dic 1,2-D trans-1,2-D Dichl 1,2-D Ethyll Ethyle
Thallium as TI  DISINFECTION Chlorine Chlorines Chlorine Dioxide Bromate Total Organic Carbon Total Trihalomathanes Haloacetic Acids ORGANIC 2,4-D 2,4,5-TP(Silvex) Acrylamide Alachlor Atrazine Benzo(A)pyrene	2 ppb  1 SY-PRODUCTS 4 ppm 4 ppm 1 ppm 800 ppb 10 ppb TT 80 ppb 60 ppb CHEMICALS 70 ppb 50 ppb TT 2 ppb 3 ppb 200 ppb	ND  2.8  N/A  0.685  0.16  N/A  2.2  72.5  42.4  ND  ND  ND  ND  ND  ND	Sima: Toxal Benz Carbo Chlor Dibror o-Dic p-Dic 1,2-D trans-1,2 Dichl 1,2-D Ethyll Ethyle Styre
Thallium as TI  DISINFECTION Chlorine Chloramines Chlorine Disinite Chlorine Dioxide Bromate Total Organic Carbon Total Trihalomathanes Haloacetic Acids  ORGANIC 2,4-D 2,4,5-TP(Silvex) Acrylamide Alachlor Atrazine Benzo(A)pyrene Carbofuran	2 ppb 18Y-PRODUCTS 4 ppm 4 ppm 1 ppm 800 ppb 10 ppb TT 80 ppb 60 ppb 6-HEMICALS 70 ppb 50 ppb TT 2 ppb 3 ppb 200 ppb	ND  2.8 N/A 0.685 0.16 N/A 2.2 72.5 42.4 ND	Sima. Toxal Benz. Carbd Chlor Dibror o-Dic 1,2-D 1,1-D cis-1,2 trans-1 Dichl 1,2-D Ethyll Styre Tetra
Thallium as TI  DISINFECTION Chlorine Chloramines Chlorine Dioxide Bromate Total Organic Carbon Total Trihalomathanes Haloacetic Acids  ORGANIC 2,4-D 2,4,5-TP(Silvex) Acrylamide Alachlor Atrazine Benzo(A)pyrene Carbofuran Chlordane Dalapon	2 ppb N BY-PRODUCTS 4 ppm 4 ppm 1 ppm 800 ppb 10 ppb TT 80 ppb 60 ppb CHEMICALS 70 ppb 50 ppb TT 2 ppb 3 ppb 200 ppb 40 ppb	ND 2.8 N/A 0.685 0.16 N/A 2.2 72.5 42.4 ND	Sima. Toxal Benz Carbe Chlor Dibror o-Dic p-Dic 1,2-D 1,1-D cis-1,2 trans-1 Dichl 1,2-D Ethyll Ethyl Styre Tetra 1,2,4- 1,1,1-
Thallium as TI  DISINFECTION Chlorine Chloramines Chlorine Dioxide Bromate Total Organic Carbon Total Trihalomathanes Haloacetic Acids ORGANIC 2,4-D 2,4,5-TP(Silvex) Acrylamide Alachlor Atrazine Benzo(A)pyrene Carbofuran Chlordane Dalapon Di(2-ethylhexyl)adipate	2 ppb N SY-PRODUCTS 4 ppm 4 ppm 1 ppm 800 ppb 10 ppb TT 80 ppb 60 ppb CHEMICALS 70 ppb 50 ppb TT 2 ppb 3 ppb 200 ppb 40 ppb	ND  2.8  N/A  0.685  0.16  N/A  2.2  72.5  42.4  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	Sima. Toxal Benz. Carbd Chlor Dibror o-Dic p-Dic 1,2-D 1,1-D cis-1,2 trans-1 Dichl 1,2-D Ethyll Styre Tetra
Thallium as TI  DISINFECTION Chlorine Chloriamines Chlorite Chlorine Dioxide Bromate Total Organic Carbon Total Trihalomathanes Haloacetic Acids ORGANIC 2,4-D 2,4,5-TP(Silvex) Acrylamide Alachlor Attrazine Benzo(A)pyrene Carbofuran Chlordane	2 ppb 18Y-PRODUCTS 4 ppm 4 ppm 1 ppm 800 ppb 10 ppb TT 80 ppb 60 ppb CHEMICALS 70 ppb 50 ppb TT 2 ppb 3 ppb 200 ppb 40 ppb 2 ppb 40 ppb 40 ppb 40 ppb 40 ppb 40 ppb 60 ppb	ND  2.8  N/A  0.685  0.16  N/A  2.2  72.5  42.4  ND  ND  ND  ND  ND  ND  ND  ND  ND  N	Sima: Toxal Benz: Carbo Chlor Dibror o-Dic 1,2-D 1,1-D cis-1,2-D Ethyll Ethyle Styre: Teta 1,2,4 1,1,1- 1,1,2- 1,1,2-
Thallium as TI  DISINFECTION Chlorine Chloramines Chlorite Chlorine Dioxide Bromate Total Organic Carbon Total Trihalomathanes Haloacetic Acids ORGANIC 2,4-D 2,4,5-TP(Silvex) Acrylamide Alachlor Atrazine Benzo(A)pyrene Carbofuran Chlordane Dalapon Di(2-ethylhexyl)pathalates	2 ppb N BY-PRODUCTS 4 ppm 4 ppm 1 ppm 800 ppb 10 ppb TT 80 ppb 60 ppb CHEMICALS 70 ppb 50 ppb 10 ppb 2 ppb 2 ppb 2 ppb 2 ppb 4 ppp	ND 2.8 N/A 0.685 0.16 N/A 2.2 72.5 42.4 ND	Sima: Toxal Benz: Carbo Chlor Dibror o-Dic 1,2-D 1,1-D cis-1,2-D Ethyll Ethylk Styree Tetra 1,2,4- 1,1,1- 1,1,2- Trichl
Thallium as TI  DISINFECTION Chlorine Chloramines Chlorine Dioxide Bromate Total Organic Carbon Total Trihalomathanes Haloacetic Acids  ORGANIC 2,4-D 2,4,5-TP(Silvex) Acrylamide Alachlor Atrazine Benzo(A)pyrene Carbofuran Chlordane Dalapon Di(2-ethy/hexyl)phthalates Dinoseb	2 ppb I SY-PRODUCTS 4 ppm 4 ppm 1 ppm 800 ppb 10 ppb TT 80 ppb 60 ppb CHEMICALS 70 ppb 50 ppb TT 2 ppb 3 ppb 200 ppb 40 ppb 2 ppb 20 ppb 40 ppb 40 ppb 60 ppb	ND 2.8 N/A 0.685 0.16 N/A 2.2 72.5 42.4 ND	Sima: Toxal Benz: Carbo Chlor O-Dic D-Dic 1,2-D 1,1-D Dichl 1,2-D Ethyll Ethyll Ethyle Tetra 1,2,4- 1,1,1- 1,1,2- Trichl Tolue

Analyte	MCL	Highest Level Detected	
Beta / Photon Emitters	4 mrem / yr	N/A	
Alpha Emitters	15 pCi/L	1.5+/-1.	
Combined Radium	5 pCi/L	N/A	
Uranium	30 ppb	N/A	
ORGANIC C Endrin	HEMICALS 2 ppb	ND	
Epichlorohydrin	TT	ND	
Glyphosate	700 ppb	ND	
Heptachlor	400 ppb	ND	
Heptachlor epoxide	200 ppt	ND	
Hexachlorobenzene	1 ppb	ND	
Hexachlorocyclopentadiene	50 ppb	ND	
Lindane	200 ppt	ND	
Methoxychlor	40 ppb	ND	
Oxamyl (Vydate)	200 ppb	ND	
PCB's	500 ppt	ND	
Pentachlorophenol	1 ppb	ND	
Picloram	500 ppb	ND	
Simazine	4 ppb	ND	
Toxaphene	3 ppb	ND	
Benzene	5 ppb	ND	
Carbon tetrachloride	5 ppb	ND	
Chlorobenzene	100 ppb	ND	
Dibromochloropropane	0.2 ppb	ND	
o-Dichlorobenzene	600 ppb	ND	
p-Dichlorobenzene	75 ppb	ND	
1,2-Dichloroethane	5 ppb	ND	
1,1-Dichloroethylene	7 ppb	ND	
cis-1,2-Dichloroethylene	70 ppb	ND	
trans-1,2-Dichloroethylene	100 ppb	ND	
Dichloromethane	5 ppb	ND	
1,2-Dichloropropane	5 ppb	ND	
Ethylbenzene	700 ppb	ND	
Ethylene dibromide	50 ppt	ND	
Styrene	100 ppb	ND	
Tetrachloroethylene	5 ppb	ND	
1,2,4-Trichlorobenzene	70 ppb	ND	
1,1,1-Trichloroethane	200 ppb	ND	
1,1,2-Trichloroethane	5 ppb	ND	
Trichloroethylene	5 ppb	ND	
Toluene	1 ppm	ND	
Vinyl Chloride	2 ppb	ND	
Xylenes	10 ppm	ND	

RADIOLOGICAL

<sup>\*</sup>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 these contaminants was not required.