

Annual Drinking Water Quality Report
Elmwood Park Water Department
For the Year 2016
Public Water System ID # 0211001

Dear Consumer:

During calendar year 2016, the Borough of Elmwood Park water supply was tested for over 80 contaminants that might be found in water. These tests included items ranging from taste and odor to bacteriological and chemical contaminants. The United States Environmental Protection Agency (USEPA) and the New Jersey Department of Environmental Protection (NJDEP) set health and safety standards for public water supplies.

This annual Consumer Confidence Report (CCR), required by the Safe Drinking Water Act (SDWA), provides additional information on our sources of supply and the quality of the water we deliver. For more information on this report or about the next opportunity for public participation in decisions concerning drinking water, please contact;

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The Elmwood Park Water Department is a division of local government working under the direction of the Mayor and Council. All meetings of the Mayor and Council are advertised in advance in the legal section of the local newspaper. The Elmwood Park Water Department will notify consumers as required by the NJDEP if water quality fails to meet the standards.

General Information

Rivers, lakes, streams, ponds, reservoirs, springs and wells are sources for both tap water and bottled water. As water travels over the surface of land or through the ground, it dissolves naturally occurring minerals and in some cases, radioactive material, and picks 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 the result from urban storm water runoff, and residential uses.
- Pesticides and herbicides, which may come from a variety of sources such as agriculture, urban storm water runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming.
- Organic, chemical contaminants, including synthetic and volatile organic chemicals, which are by-products 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.

In order to ensure that tap water is safe to drink, the EPA prescribes regulations which limit the amount of certain contaminants in water provided by public water systems. Food and Drug Administration regulations establish limits for contaminants in bottled water, which must provide the same protection for public health.

Drinking water, including bottled water, may reasonably be expected to contain at least small amounts of some contaminants. However, the presence of a contaminant does not necessarily indicate that the water poses a health risk.

Health and Educational Information

Some people may be more vulnerable to contaminants 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 providers. EPA/CDC guidelines on the appropriate means to lessen the risk of infections by cryptosporidium and other microbial contaminants are available from the EPAs Safe Drinking Water Hotline at 800-426-4791.

Special Considerations Regarding Children, Pregnant Women, Nursing Mothers, and Others

Children may receive a slightly higher amount of a contaminant present in the water than do adults, on a body weight basis, because they may drink a greater amount of water per pound of body weight than do adults. For this reason reproductive or developmental effects are used for calculating a drinking water standard, especially if these effects occur at lower levels than other health effects of concern. If there is insufficient toxicity information for a chemical (for example, lack of data on reproductive or developmental effects), an extra uncertainty factor may be incorporated into the calculation of the drinking water standard, thus making the standard more stringent, to account for the additional uncertainties regarding these effects. In the case of lead and nitrate, effects on infants and children are the health endpoints upon which the standard is based.

Sources of Supply

The Elmwood Park water supply obtains its entire water supply from the Passaic Valley Water Commission (PVWC). Sources of supply include the Passaic River, and treated water that is supplied by the North Jersey District Water Supply Commission (NJDWSC). NJDWSC obtains water its supply from the Wanaque Reservoir.

Treatment

Water produced by the PVWC is treated at their water treatment plant in Little Falls. The NJDWSC supply is treated at their water treatment plant in Wanaque. The treatment at these plants includes pretreatment, sedimentation, filtration and disinfection.

The Borough of Elmwood Park, PVWC and the NJDWSC Water Quality Tables below list all the drinking water contaminants that were detected during calendar year 2013. The presence of these contaminants in the water does not necessarily indicate that the water poses a health risk. Unless otherwise noted, the data presented in this table is from January 1, 2013 through December 31, 2013. The NJDEP requires us to monitor for certain contaminants less than once per year because the concentrations of these contaminants are not expected to vary significantly from year to year. Some of the data, though representative of the water quality, may be more than one year old.

ADDITIONAL INFORMATION

The Safe Drinking Water Act regulations allow monitoring waivers to reduce or eliminate monitoring requirements for asbestos, volatile organic chemicals and synthetic organic chemicals. Our system received monitoring waivers for asbestos and we are not required to monitor for synthetic organic chemicals.

The MCL's listed in the following tables are set at very stringent levels. To understand the possible health effects described for many regulated contaminants, a person would have to drink two liters of water every day at the MCL level for a lifetime to have a one-in-a-million chance of having the described health effect.

**Table 1
Elmwood Park Water Department - Water Quality Report**

Microbiological Contaminants

Regulated Contaminant	Units	COMPLIANCE ACCHIEVED	MCLG	MCL	Highest Level	Source of Contamination
Total Coliform Bacteria	NA	Yes*	0	Not more than 1 positive sample per month	1	Coliform are bacteria that are naturally present in the environment and are used as an indicator that other, potentially harmful bacteria may be present.

*The Elmwood Park Water Department collects 21 routine total coliform samples per month. Elmwood Park Water recorded 1 positive sample for total coliform in the month of June. The sample was negative for e-coli. In conformance with the rules a repeat sample was collected from the same location and 2 additional check samples were taken upstream and downstream of the location of the positive sample within 24 hours and retested. All repeat and check samples were negative requiring no further action. Total Coliform is not a health threat in itself; it is used to indicate whether other potentially harmful bacteria may be present.

REGULATED DISINFECTANTS and DISINFECTION BYPRODUCTS

Stage 2 Disinfection Byproducts, Note: Stage 2 DBP compliance is based on the locational running average (LRAA) calculated at each monitoring location.

Regulated Contaminant	UNIT	COMPLIANCE ACCHIEVED	MCL LRAA	Highest Detected	Range Detected	Source of Contamination/ and Comments
Total Trihalomethanes (TTHM) Stage 1	PPB	No*	80	83	43 - 83	Byproduct of water disinfection. / TTHM compliance is based on Locational Running Annual Average.
Haloacetic Acids (HAA5) Stage 1	PPB	Yes	60	36	10 - 36	Byproduct of water disinfection. / HAA5 compliance is based on Locational Running Annual Average.

* Elmwood Park Samples 4 locations for Total Trihalomethanes. One of these locations, the DPW Garage, exceeded the 80 PPB Locational Running Annual Average (LRAA). Elmwood Park first quarter 2017 sample results indicated the LRAA at the DPW Garage remains above 80 PPP. The remaining three locations have remained below 80 PPB. The Borough has initiated additional system wide flushing (twice annually) to bring the system back into compliance.

Disinfectants:

Regulated Contaminant	Units	COMPLIANCE ACCHIEVED	MRDLG	MRDL	Highest Detected	Range Detected	Source of Contamination
Chlorine as CL2 (Running avg.)	PPM	Yes	4	4	1.0	0.6 – 1.0	Chlorine is used as a drinking water disinfectant.

Secondary Contaminants

Regulated Contaminant	Units	COMPLIANCE ACCHIEVED	RUL	Highest Detected	Range Detected	Source of Contamination
Iron	PPM	Yes	.3	<0.2	<0.2	Erosion of natural deposits, discharge of drilling waste and discharge from metal refineries.
Manganese	PPM	Yes	0.05	<0.01	<0.01	Erosion of natural deposits.

Inorganic Contaminants (2015 Results, Next testing required in 2018)

Regulated Contaminant	Units	MCLG	MCL	Range Detected	Highest Level	Source of Contamination
Copper	mg/L	1.3	AL=1.3	90 th percentile = 0.066	0.476	Corrosion of household plumbing systems
Lead (N)	mg/L	0	AL= 0.015	90 th percentile = 0.0023	0.00564	Corrosion of household plumbing systems

Table 2

PASSAIC VALLEY WATER COMMISSION (PVWC) PWS ID NJ1605002 - 2016 WATER QUALITY DATA

Some people may be more vulnerable to contaminants 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 (800-426-4791).

Water Quality Results - Table of Contaminants Detected in 2016

PRIMARY CONTAMINANTS	Compliance Achieved	MCL G	MCL	Water Treatment Plant Results					TYPICAL SOURCE
				PVWC Little Falls WTP PWS ID NJ1605002	NJDWSC Wanaque WTP PWS ID NJ1613001	Suez New Jersey Haworth WTP PWS ID NJ0238001	Jersey City MUA Jersey City WTP PWS ID NJ0906001	Newark Water Pequannock WTP PWS ID NJ0714001	
TURBIDITY AND TOTAL ORGANIC CARBON				Highest Result (Range of Results)					
Turbidity, NTU	Yes	NA	TT = 1	0.17 (0.03 - 0.17)	0.38 (0.12 average)	0.71 (0.03 - 0.71)	0.26 (0.06 - 0.26)	0.34 (0.01 - 0.34)	Soil runoff.
	Yes	NA	TT = percentage of samples <0.3 NTU (min 95% required)	100%	99.7%	99.9%	100%	100%	
Total Organic Carbon, %	Yes	NA	TT = % removal; or removal ratio	Percent (%) Removal	Removal Ratio				Naturally present in the environment.
				51 - 75 (35 - 50 required)	1.0 (RAA) 0.76 - 1.0	1.07 (Lowest Ratio RAA) 0.95 - 1.24	1.10 (Lowest RAA) 0.97 - 1.92	NA	
INORGANIC CONTAMINANTS				Highest Result (Range of Results)					
Barium, ppm	Yes	2	2	0.024 (0.015 - 0.024)	0.014	0.16 (0.06 - 0.16)	0.02	0.008	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits.
Bromate, ppb	Yes	0	10	ND	NA	1.1 (highest RAA) (ND - 2.0)	NA	NA	By-product of drinking water disinfection.
Chromium, ppb	Yes	100	100	0.60 (ND - 0.60)	ND	2.6 (ND - 2.6)	ND	ND	Discharge from steel and pulp mills; erosion of natural deposits.
Fluoride, ppm	Yes	4	4	0.087 (0.07 - 0.087)	ND	ND	ND	0.073	Erosion of natural deposits.
Nickel, ppb	NA	NA	NA	2.75 (1.54 - 2.75)	ND	ND	ND	ND	Erosion of natural deposits.
Nitrate, ppm	Yes	10	10	4.05 (0.72 - 4.05)	0.284	3.33 (ND - 3.33)	0.34 (0.20 - 0.34)	ND	Runoff from fertilizer use; Leaching from septic tanks, sewage; Erosion of natural deposits.
Nitrite, ppm	Yes	1	1	NA	NA	0.01 (ND - 0.01)	ND	NA	Runoff from fertilizer use; Leaching from septic tanks, sewage;

									Erosion of natural deposits.
Selenium, ppb	Yes	50	50	0.74 (ND - 0.74)	ND	ND	ND	ND	Discharge from petroleum and metal refineries; Erosion of natural deposits. Discharge from mines.
Thallium, ppb	Yes	0.5	2	0.6 (ND - 0.6)	ND	ND	ND	ND	Leaching from ore-processing sites; Discharge from electronics, glass, and drug factories.
ORGANIC CONTAMINANTS		Highest Result (Range of Results)							
Toluene, ppb	Yes	1,000	1,000	ND	ND	0.7 (ND - 0.7)	ND	ND	Discharge from petroleum factories.
RADIOLOGICAL CONTAMINANTS		Highest Result (2014 Data)							
Combined radium, pCi/L	Yes	0	5	NA	NA	NA	0.14	NA	Erosion of natural deposits.

SOURCE WATER ASSESSMENT

NJDEP has prepared Source Water Assessment reports and summaries for all public water systems. The Source Water Assessment for the PVWC system (PWS ID 1605002), NJDWSC system (PWS ID 1613001), Suez New Jersey system (PWS ID 0238001), Jersey City system (PWS ID 0906001), and Newark system (PWS ID 0714001) can be obtained by accessing NJDEP's source water assessment web site at <http://www.nj.gov/dep/watersupply/swap/index.html> or by contacting NJDEP's Bureau of Safe Drinking Water at 609-292-5550. If a system is rated highly susceptible for a contamination category, it does not mean a customer is – or will be – consuming contaminated water. The rating reflects the potential for contamination of a source water, not the existence of contamination. Public water systems are required to monitor for regulated contaminants and to install treatment if any of those contaminants are detected at frequencies and concentrations above allowable levels. The source water assessments performed on the intakes for each system lists the following susceptibility ratings for a variety of contaminants that may be present in source waters:

Intake Susceptibility Ratings	Pathogens	Nutrients	Pesticides	Volatile Organic Compounds	Inorganic Contaminants	Radionuclides	Radon	Disinfection Byproduct Precursors
PVWC 4 Surface Water	4-High	4-High	1-Medium, 3-Low	4-Medium	4-High	4-Low	4-Low	4-High
NJDWSC 5 Surface Water	5-High	5-High	2-Medium, 3-Low	5-Medium	5-High	5-Low	5-Low	5-High
Suez New Jersey 6 Surface Water	6-High	2-High 4-Medium	1-Medium 5-Low	2-High 3-Medium 1-Low	5-High 1-Medium	6-Low	6-Low	6-High
Jersey City 1 Surface Water	High	Medium	Low	Medium	Medium	Low	Low	High
Newark 1 Surface Water	High	Low	Low	Low	High	Low	Low	High

CRYPTOSPORIDIUM

Cryptosporidium is a microbial pathogen found in surface water throughout the United States. Although filtration removes *Cryptosporidium*, the most commonly-used filtration methods cannot guarantee 100 percent removal. Our monitoring indicates the presence of these organisms in our source water. Current test methods do not allow us to determine if the organisms are viable or capable of causing disease. Ingestion of *Cryptosporidium* may cause cryptosporidiosis, an abdominal infection. Symptoms of infection include nausea, diarrhea, and abdominal cramps. Most healthy individuals can overcome the disease within a few weeks. However, immuno-compromised people, infants and small children, and the elderly are at greater risk of developing life-threatening illness. We encourage immuno-compromised individuals to consult their doctor regarding appropriate precautions to take to avoid infection. *Cryptosporidium* must be ingested to cause disease, and it may spread through means other than drinking water.

PVWC, NJDWSC, Suez North Jersey, Jersey City, and Newark started the second round of source water monitoring in accordance with the requirements of EPA's Long Term 2 Enhanced Surface Water Treatment Rule. The data collected in 2016 is presented in the Source Water Pathogen Monitoring table below. Results of this monitoring will be used to determine whether additional treatment for removal/inactivation of *Cryptosporidium* is required for each Treatment Plant.

SOURCE WATER PATHOGEN MONITORING

Contaminant	PVWC Source Waters		NJDWSC Source Water	Suez New Jersey Source Water	Jersey City Source Water	Newark Source Water	Typical Source
	Passaic River	Pompton River					
<i>Cryptosporidium</i> , Oocysts/L	0 - 0.4	0 - 0.857	0 - 0.1	0	0	0	Microbial pathogens found in surface waters throughout the United States.
<i>Giardia</i> , Cysts/L	0 - 1.1	0 - 1.143	0 - 0.1	0	0	0 - 0.28	

SECONDARY PARAMETERS – TREATMENT PLANT EFFLUENT

Contaminant	New Jersey Recommended Upper Limit (RUL)	PVWC Little Falls WTP PWSID NJ1605002		NJDWSC Wanaque WTP PWSID NJ1613001		Suez New Jersey Hawthorn WTP PWSID NJ0238001		Jersey City Jersey City WTP PWSID NJ0906001		Newark Pequannock WTP PWS ID NJ0714001	
		Range of Results	RUL Achieved	Result	RUL Achieved	Range of Results	RUL Achieved	Range of Results	RUL Achieved	Result	RUL Achieved
ABS/LAS, ppb	500	ND - 129	Yes	ND	Yes	ND	Yes	ND	Yes	-	-
Alkalinity, ppm	NA	50 - 77	NA	44	NA	63 - 196	NA	34 - 64	NA	25	NA
Aluminum, ppb	200	15 - 35	Yes	45	Yes	ND - 235	No	ND - 161	Yes	35	Yes
Chloride, ppm	250	102 - 146	Yes	77	Yes	93 - 191	Yes	87 - 103	Yes	37	Yes
Color, CU	10	ND	Yes	2	Yes	ND - 4	Yes	ND - 10	Yes	2	Yes
Corrosivity	Non-Corrosive	Corrosive	No	Corrosive	No	Non-Corrosive	Yes	Corrosive	No	-	-
Hardness (as CaCO ₃), ppm	250	112 - 160	Yes	72	Yes	97 - 294	No	78 - 118	Yes	52	Yes
Hardness (as CaCO ₃), grains/gallon	15	7 - 9	Yes	4	Yes	6 - 17	Yes	5 - 7	Yes	3	Yes
Iron, ppb	300	ND	Yes	6	Yes	ND - 32	Yes	ND - 49	Yes	9	Yes
Manganese, ppb	50	2 - 5	Yes	2	Yes	ND - 18	Yes	ND - 59 (10 average)	Yes**	11	Yes
Odor, TON	3	6 - 16	No	ND	Yes	ND - 3C	Yes	ND - 3C	Yes	-	-
pH	6.5 to 8.5 (optimum range)	7.52 - 8.33	Yes	7.98	Yes	7.05 - 8.37	Yes	6.85 - 7.80	Yes	7.29	Yes
Sodium, ppm	50	55 - 130	No*	42	Yes	49 - 105	No*	43 - 50 (53 RAA)^	No*	20	Yes
Sulfate, ppm	250	49 - 90	Yes	10	Yes	13 - 22	Yes	12	Yes	11	Yes
Total Dissolved Solids, ppm	500	313 - 492	Yes	186	Yes	205 - 517	No	197 - 273	Yes	114	Yes
Zinc, ppb	5,000	2 - 4	Yes	8	Yes	ND	Yes	ND - 40	Yes	ND	Yes

**Compliance with the Manganese RUL is based on the average of all results.

^Compliance with the Sodium RUL is based on the RAA.

* PVWC, JERSEY CITY AND SUEZ NEW JERSEY FINISHED WATER EXCEEDS SODIUM RUL

PVWC, Jersey City and Suez-New Jersey's finished water was above New Jersey's Recommended Upper Limit (RUL) of 50 ppm for sodium in 2016. Possible sources of sodium include natural soil runoff, roadway salt runoff, upstream wastewater treatment plants, and a contribution coming from chemicals used in the water treatment process. For healthy individuals the sodium intake from water is not important, because a much greater intake of sodium takes place from salt in the diet. However, sodium levels above the recommended upper limit may be a concern to individuals on a sodium-restricted diet. If you have any concerns please contact your health care provider.

ADDITIONAL PVWC TREATMENT PLANT MONITORING RESULTS

Detected Contaminants, ppb	Little Falls WTP Effluent Average (Range)	
Chlorate	250 (ND - 495)	<p>Test results presented in this table were collected in 2016 as part of a study to determine the general occurrence of these contaminants. PVWC continues to participate in and support these types of regulatory and research efforts to maintain a position of leadership in drinking water supply.</p> <p>There are currently no drinking water standards for these contaminants although EPA has established health advisory levels for some of these to provide an estimate of acceptable drinking water levels based on health effects information.</p> <p>The results observed in 2016 were well below EPA established health advisory levels.</p>
1,4-Dioxane	0.185 (0.18 - 0.19)	
Chloromethane	0.014 (ND - 0.55)	
Perfluorobutanesulfonic acid	0.004 (0.0032 - 0.0044)	
Perfluoroheptanoic acid	0.0038 (0.0032 - 0.0049)	
Perfluorohexanesulfonic acid	0.0049 (0.0038 - 0.0068)	
Perfluorohexanoic acid	0.015 (0.011 - 0.017)	
Perfluorononanoic acid	0.0011 (ND - 0.0043)	
Perfluorooctanesulfonic acid, (PFOS)	0.010 (0.0077 - 0.015)	
Perfluorooctanoic acid, (PFOA)	0.012 (0.0099 - 0.014)	

Health advisory levels are non-enforceable and non-regulatory and provide technical information to state agencies and other public health officials on health effects, analytical methodologies, and treatment technologies associated with drinking water contamination.

ADDITIONAL INFORMATIONAL RESOURCES

EPA Drinking Water website: www.epa.gov/safewater
 NJDEP Water Supply website: www.nj.gov/dep/watersupply
 American Water Works Association (AWWA) website: www.awwa.org

EPA Safe Drinking Water Hotline: 800-426-4791
 NJDEP Bureau of Safe Drinking Water: 609-292-5550
 AWWA New Jersey Section website: www.njawwa.org

Definitions

In the following table, you will find many terms and abbreviations you might not be familiar with. To help you better understand these terms: we've provided the following definitions:

<u>Term</u>	<u>Description</u>
AL	<u>Action Level</u> : The concentration of contaminant which, if exceeded, triggers treatment or other requirements which a water system must follow.
CDC	<u>Center for Disease Control</u>
CU	<u>Color Unit</u>
Disinfection By-product Precursors	A common source naturally occurring organic matter in surface water. Disinfection by-products are formed when the disinfectants (usually chlorine) used to kill pathogens react with dissolved organic material (DPB precursors) present in surface water
EPA	United States Environmental Protection Agency
Inorganic Contaminants	Contaminants such as salts and metals, which can be naturally-occurring or result from urban stormwater runoff, industrial or domestic wastewater discharges, oil and gas production, mining or farming. These contaminants may be present in source water.
LRAA	<u>Locational Annual Running Average</u>
MCL	<u>Maximum Contaminant Level</u> is the highest level of contaminant that is allowed in the drinking water. MCLs are set as close to the MCLGs as is feasible using the best available treatment technology.
MCLG	<u>Maximum Contaminant Level Goal</u> is the level of a contaminant in drinking water below which there is no known expected risk to health MCLGs allow a margin of safety.
MF/L	<u>Million fibers per liter</u>
MRDL	<u>Maximum Residual Disinfectant Level</u> is the highest level of disinfectant allowed in drinking water. There is convincing evidence that addition of a disinfectant is necessary for control of microbial contaminants.
MRDLG	<u>Maximum Residual Disinfectant Level Goal</u> the level of disinfectant allowed in drinking water below which there is no known or expected risk to health. MRDLG's do not reflect the benefits of the use of disinfectants to control microbial contaminants.
NA	Not Applicable
ND	<u>Not Detected</u> is a term used when a laboratory analysis demonstrates that the constituent is not present.
NTU	<u>Nephelometric Turbidity Unit</u> is the measure of the clarity of water. Turbidity is excess of 5 NTU is just noticeable to the average person.
Nutrients	Compounds, minerals and elements that aid growth that are both naturally occurring and manmade. Examples include nitrogen and phosphorus.
Organic Contaminants / Volatile Organic Compounds	Compounds, including synthetic and volatile organic chemicals which are by-products of industrial processes and petroleum production, and can also come from gas stations, stormwater runoff and septic systems. Manmade chemicals used as solvents, degreasers, and gasoline components. Examples include benzene, methyl tertiary butyl ether (MTBE) and vinyl chloride. These compounds may be present in surface water.
Pesticides, Herbicides, Insecticides, Fungicides and Rodenticides	Manmade chemicals used to control pests, weeds and fungus which may come from a variety of sources such as agriculture, stormwater runoff and residential uses and may be present in source water. Common sources include land application and manufacturing centers of pesticides. Examples include herbicides such as atrazine and insecticides such as chlordane.
pC/L	<u>Picocuries per liter</u> is a measure of radioactivity in water.
PPB	<u>Parts per billion</u> or micrograms per liter equals one part per billion and corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.
POE	<u>Point of Entry</u> to the water distribution system
PPM	<u>Parts per Million</u> or milligrams per liter (mg/l) equals one part per million and corresponds to one minute in to years or a single penny in \$10,000.
RAA	<u>Running Annual Average</u>
RUL	<u>Recommended Upper Limit</u> : the highest level of a constituent of drinking water that is recommended in order to protect aesthetic quality.
TON	<u>Threshold Odor Number</u>
TT	<u>Treatment Technique</u> is a required process intended to reduce the level of contaminant in drinking water.