

## ***Annual Drinking Water Quality Report for 2022***

### **Village of Green Island**

20 Clinton Street, Green Island, NY 12183

Public Water Supply Identification Number NY01000195

#### **INTRODUCTION**

To comply with State regulations, the Village of Green Island will be annually issuing a report describing the quality of your drinking water. The purpose of this report is to raise your understanding of drinking water and awareness of the need to protect our drinking water sources. Last year, your drinking water met all State drinking water health standards. This report is an overview of last year's water quality. Included are details about where your water comes from, what it contains, and how it compares to New York State standards. Our constant goal is and always has been, to provide to you a safe and dependable supply of drinking water. We want you to understand the efforts we make to continually improve the water treatment process and to protect our water resources. If you have any questions concerning this report or concerning your drinking water please contact: *Mr. John Heffern, Plant Operator, Village of Green Island Water Department, 20 Clinton Street, Green Island, NY 12183; Telephone (518) 273-4959.* We want our valued customers to be informed about their water service.

#### **WHERE DOES OUR WATER COME FROM?**

The Village's source of water is infiltration galleries. Water flows through packed sand and gravel into a collection pipe by gravity flow to a 35-foot deep well. At this point water is pumped from the well to the treatment facility where it is filtered and chlorinated. The pH is adjusted, and iron and manganese are removed with potassium permanganate. The water purchased from the City of Cohoes comes from the Mohawk River, a "surface water" source. Water is pumped from the river into a complete treatment facility. The treatment process at Cohoes employs sodium permanganate for iron and manganese removal; coagulation using aluminum sulfate to cause small particles to stick together when the water is mixed, making larger heavier particles; sedimentation to allow the newly formed larger particles to settle out naturally; filtration to remove smaller particles by trapping them in sand filters; pH adjustment with caustic soda and an ortho phosphate inhibitor for corrosion control and iron and manganese control, post chlorination to prevent bacterial contamination.

In general, 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 activities. Contaminants that may be present in source water include microbial contaminants; inorganic contaminants; pesticides and herbicides; organic chemical contaminants; and radioactive contaminants. In order to ensure that tap water is safe to drink, the State and EPA prescribe regulations, which limit the amount of certain contaminants in water, provided by public water systems. The State Health Department's and the FDA's regulations establish limits for contaminants in bottled water which must provide the same protection for public health.

#### **FACTS AND FIGURES**

The Village of Green Island operates a ground water filtration plant that serves 1,200 service connections with a population of 3,000. The total water produced in 2022 was 200,826,600 gallons. The daily average of water treated and pumped into the distribution system is 550,210 gallons per day. Our highest single day was 822,000 gallons. The amount of water delivered to customers was 106,620,525 gallons. Water used to flush mains, fight fires and leakage accounts for the remaining 94,206,075 gallons. The ratio of water billed to water produced averages 53%. Our reservoir measuring 80 foot across and 14 feet deep stores 480,000 gallons of water and is covered with a polyvinyl floating cover. We routinely flush the hydrants, and repair hydrants and valves and water main breaks as soon as possible. New mains, hydrants and valves are planned for the future. The Village water system has an emergency line connection with the City of Cohoes. Approximately 23,876,840 gallons were purchased during 2022 and used for plant shut downs, water breaks, businesses in the north end of Green Island and supplemental supply. Another redundant emergency connection, this one with the City of Watervliet, was constructed in the south end of the Village during 2020. There was no measurable flow calculated in 2022. Our 2022 annual report will include specific information as it relates to the City of Watervliet water used. All services are metered. In 2022, residential water customers were charged \$70.25 per 1,000 cubic feet of water or \$93.43/1000 gallons of water. Industrial customers are billed according to the meter size.

#### **ARE THERE CONTAMINANTS IN OUR DRINKING WATER?**

In accordance with State regulations, the Village of Green Island routinely monitors your drinking water for numerous contaminants. We test your drinking water for inorganic contaminants, lead and copper, nitrate, volatile organic contaminants, and synthetic organic contaminants and disinfection byproducts. In addition, we test four samples for coliform bacteria each month. The table presented below depicts which contaminants were detected in your drinking water. The state allows 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, is more than one year old and is noted. For a listing of the parameters we analyzed that were not detected along with the frequency of testing for compliance with the NYS Sanitary Code, see Appendix A. Data for the purchased water from Cohoes is on pages 4 and 6.

Unregulated Contaminant Monitoring 4 was conducted during 2018. This is a requirement of the 1996 Safe Drinking Water Act amendments. This monitoring provides a basis for future regulatory action to protect the public health. The number in parentheses refers to the number of measured for a total of 30 analytes. The breakdown of analytes is as follows: semi volatile organic chemicals (3), pesticides and pesticide manufacturing byproduct (9), metals (2), alcohols (3), cyanotoxin chemical contaminants (10), brominated haloacetic acid groups (3) and indicator compounds (2). We have listed those compounds that were detected in the table of Detected Contaminants for Cohoes. There are no associated MCL's for these compounds at this time with the exception of Manganese.

It should be noted that all drinking water, including bottled drinking water, may be reasonably expected to contain at least small amounts of some contaminants. The presence of contaminants does not necessarily pose a health risk. More information about contaminants and potential health effects can be obtained by calling the EPA's Safe Drinking Water Hotline (800-426-4791) or the Albany County Health Department at (518) 447-4620.

#### **WHAT DOES THIS INFORMATION MEAN?**

We have learned through our monitoring and testing that some contaminants have been detected; however, these compounds were detected below New York State requirements. Although the 90<sup>th</sup> percentile was below the Action Level of 15 µg/l we had 1 sample above the Action Level and are required to furnish the following health effects information.

#### **Lead**

*Infants and children who drink water containing lead in excess of the action level could experience delays in their physical or mental development. Children could show slight deficits in attention span and learning abilities. Adults who drink this water over many years could develop kidney problems or high blood pressure.*

*Additionally, "In 2022, we were required to collect and analyze drinking water samples for 23 unregulated contaminants and 2 regulated contaminants on 1 sample from our finished water in, June 2022. Some contaminants that are currently unregulated and 2 contaminants that are regulated were detected in the samples. The data is shown in the table on page 4. The list of Unregulated and Regulated Compounds can be found on the last page. You may obtain the monitoring results by calling John Heffern at (518) 273-4959."*

#### **IS OUR WATER SYSTEM MEETING OTHER RULES THAT GOVERN OPERATIONS?**

During 2022, our system was in compliance with applicable State drinking water monitoring and reporting requirements. We received a Notice Of Violation for the period of November 2022 for not maintaining a minimum chlorine level of 0.2 mg/L at the entry point.

#### **DO I NEED TO TAKE SPECIAL PRECAUTIONS?**

Although our drinking water met or exceeded state and federal regulations, some people may be more vulnerable to disease causing microorganisms or pathogens 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 from their health care provider about their drinking water. EPA/CDC guidelines on appropriate means to lessen the risk of infection by Cryptosporidium, Giardia and other microbiological pathogens are available from the Safe Drinking Water Hotline (800-426-4791).

#### **INFORMATION ON LEAD**

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 Village of Green Island Water Department is responsible for providing high quality drinking water and removing lead pipes, but cannot control the variety of materials used in plumbing components in your home. You share the responsibility for protecting yourself and your family from the lead in your home plumbing. You can take responsibility by identifying and removing lead materials within your home plumbing and taking steps to reduce your family's risk. Before drinking tap water, flush your pipes for several minutes by running your tap, taking a shower, doing laundry or a load of dishes. You can also use a filter certified by an American National Standards Institute accredited certifier to reduce lead in drinking

water. If you are concerned about lead in your water and wish to have your water tested, contact John Heffern at (518) 273-4959. Information on lead in drinking water, testing methods, and steps you can take to minimize exposure is available at <http://www.epa.gov/safewater/lead>.

#### **WHAT IS THE SOURCE WATER ASSESSMENT PROGRAM (SWAP)?**

To emphasize the protection of surface and ground water sources used for public drinking water, Congress amended the Safe Drinking Water Act (SDWA) in 1996. The amendments require that New York State Department of Health's Bureau of Public Water Supply Protection is responsible for ensuring that source water assessments are completed for all of New York's public water systems.

A source water assessment provides information on the potential contaminant threats to public drinking water sources:

- ◆ each source water assessment will: determine where water used for public drinking water comes from (delineate the source areas)
- ◆ Inventory potential sources of contamination that may impact public drinking water sources
- ◆ Assess the likelihood of a source water area becoming potential contaminated

A SWAP summary for our water supply is attached to this report.

#### **WATER CONSERVATION TIPS**

The Village of Green Island encourages water conservation. There are a lot of things you can do to conserve water in your own home. Conservation tips include:

- ◆ *Use water saving showerheads*
- ◆ *Repair all leaks in your plumbing system*
- ◆ *Water your lawn sparingly in the early morning or in the late evening*
- ◆ *Do only full loads of wash and dishes*
- ◆ *Wash your car with a bucket and hose with a nozzle*
- ◆ *Don't cut the lawn too short; longer grass saves water*

#### **CAPITAL IMPROVEMENTS**

There were no major modifications made to the water system in 2022.

#### **CLOSING**

Thank you for allowing us to continue providing your family with clean, quality water this year. In order to maintain a safe and dependable water supply we sometimes need to make improvements that will benefit our customers. You will be informed of system improvements in future Annual Water Quality Reports. We ask that all our customers help us protect our water sources. Please call our office if you have questions.

#### **GLOSSARY**

*Non-Detects (ND)* - laboratory analysis indicates that the constituent is not present.

*Parts per million (ppm) or Milligrams per liter (mg/l)* - one part per million corresponds to one minute in two years or a single penny in \$10,000.

*Parts per billion (ppb) or Micrograms per liter* - one part per billion corresponds to one minute in 2,000 years, or a single penny in \$10,000,000.

*Parts per trillion (ppt) or Nanograms per liter (nanograms/l)* - one part per trillion corresponds to one minute in 2,000,000 years, or a single penny in \$10,000,000,000.

*Nephelometric Turbidity Unit (NTU)* - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

*Picocuries per liter (pCi/L)* - Picocuries per liter is a measure of the radioactivity in water.

*Nephelometric Turbidity Unit (NTU)* - nephelometric turbidity unit is a measure of the clarity of water. Turbidity in excess of 5 NTU is just noticeable to the average person.

*90<sup>th</sup> Percentile Value*- The values reported for lead and copper represent the 90<sup>th</sup> percentile. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90<sup>th</sup> percentile is equal to or greater than 90% of the lead and copper values detected at your water system

*Action Level* - the concentration of a contaminant, which, if exceeded, triggers treatment, or other requirements, which a water system must follow.

*Treatment Technique (TT)* - A treatment technique is a required process intended to reduce the level of a contaminant in drinking water.

*Maximum Contaminant Level* - The "Maximum Allowed" (MCL) is 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* The "Goal" (MCLG) is 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 Residual Disinfectant Level (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.

**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 contamination.

**N/A :** Not applicable

VILLAGE OF GREEN ISLAND TABLE OF DETECTED CONTAMINANTS Public Water Supply Identification Number NY01000195							
Contaminant	Violation Y/N	Date of Sample	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Microbiological Contaminants							
Turbidity <sup>1</sup> (Highest level at various time over the year)	N	2022	0.01	NTU	N/A	TT=1.0 NTU	Soil runoff
			100%			TT= 95% samples < 0.3	
Inorganic Contaminants (samples from 2/8/21 unless otherwise noted)							
Barium	N	4/4/22	170	µg/l	2000	MCL=2000	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chloride	N	4/4/22	118	mg/l	N/A	MCL=250	Geology; Naturally occurring
Copper	N	7/13/21- 7/17/21	118 <sup>2</sup>	mg/l	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Range of copper concentration			0.20-1.38				
Lead	N	7/13/21- 7/17/21	2.5 <sup>3</sup> ND-31	µg/l	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Range of lead concentration							
Manganese	N	4/4/22	124	µg/l	N/A	MCL300	Geology; Naturally occurring
Nickel	N	4/4/22	0.6	µg/l	N/A	N/A	Naturally occurring
Nitrate	N	4/4/22	1.61	mg/l	10	MCL10	Erosion of natural deposits
pH	N	4/4/22	7.08	units	N/A	6.5-8.5	
Sodium <sup>4</sup>	N	4/4/22	58.2	mg/l	N/A	N/A	Naturally occurring, Road salt
Sulfate	N	4/4/22	6.66	mg/l	N/A	MCL=250	Naturally occurring
Unregulated Polyfluoroalkyl Substances and Regulated PFOA & PFOS							
PFBS	N	6/27/22	1.7	ng/l	N/A	MCL=10 <sup>5,6,7</sup>	Released into the environment from widespread use in commercial and industrial applications.
PFBA			6.2				
PFHpA			3.4				
PFHxS			0.96				
PFHxA			4.7				
PFNA			0.73				
PFPeA			4.4				
PFOA			6.9				
PFOS			3.5				
Disinfection Byproducts							
Haloacetic Acids (HAA5)	N	8/1/22	1.26	µg/l	N/A	MCL=60	By-product of drinking water disinfection
Chlorine Residual (range) (based on daily samples)	N	Daily testing	0.27 0.015- 0.75	mg/l	N/A	MCL=4	Used in the treatment and disinfection of drinking water
FOOTNOTES-							
1.Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. Level detected represents the highest level detected.							
2. The level presented represents the 90 <sup>th</sup> percentile of the 10 test sites. A percentile is a value on a scale of 100 that indicates the percent of a distribution that is equal to or below it. The 90th percentile is equal to or greater than 90% of the copper values detected at your water system. In this case, 10 samples were collected at your water system and the 90th percentile value was the sample with the second highest value (level detected 0.118 mg/l). The action level for copper was exceeded at 1 of the 10 sites tested.							
3.The level presented represents the 90 <sup>th</sup> percentile of 10 test sites. The action level for lead was exceeded at 1 of the 10 sites tested							
4. Water containing more than 20 ppm should not be consumed by persons on severely restricted sodium diets; Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.							
5. Only PFOA and PFOS have a regulatory limit of 10 ng/l each.							
6. All perfluoroalkyl substances, besides PFOA and PFOS, are considered Unspecified Organic Contaminants (UOC) which have an MCL=0.05 mg/L or 50,000 ng/l.							
7. USEPA Health Advisory Levels identify the concentration of a contaminant in drinking water at which adverse health effects and/or aesthetic effects are not as new information becomes available. PFBS (2000 ng/l) and HFPO-DA (10 ng/l ) also have Health Advisory Levels.							

# Appendix A

New York State Sanitary Code Compliance Monitoring Requirements- Compounds Analyzed that were Below Limits of Detection

VILLAGE OF GREEN ISLAND TEST RESULTS Public Water Supply Identification Number NY01000195					
CONTAMINANT	MONITORING FREQUENCY		CONTAMINANT	CONTAMINANT	MONITORING FREQUENCY
Asbestos	Every 9 years Waiver from monitoring No asbestos pipe		POC's (Volatile Organic Compounds)		
			Benzene	Trans-1,3-Dichloropropene	Monitoring requirement is one sample annually.  Sample from 4/4/22   

**Village of Green Island-Hudson River**  
**NY01000195**  
**Source Water Assessment Summary**

The NYS DOH has completed a Source Water Assessment for the Hudson River in the region around Green Island's Infiltration Gallery. The assessment is summarized below. The assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how likely contaminants could enter the river. The susceptibility rating is an estimate of the potential for contamination. It does not mean that the water delivered to your home is or will become unsafe to drink. See section "Are there contaminants in our drinking water?" of this report, for information concerning low levels of contaminants in your water.

This assessment found the amount of pasture in the assessment area results in a potential for protozoa contamination. There is also a high density of sanitary wastewater discharges, which result in susceptibility to other contaminant categories. Non-sanitary wastewater discharges may also contribute to contamination.

Green Island's water treatment plant performs multi level treatment to insure you receive safe drinking water. Additionally, as this annual report shows your water is routinely monitored for a great number of potential contaminants.

A copy of the full Source Water Assessment, including a map of the assessment area, is available for review by contacting us at the number provided in this report.

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**City of Cohoes - Mohawk River**  
**NY01000192**  
**Source Water Assessment Summary**

The NYS DOH has completed a Source Water Assessment for the Mohawk River upstream of the Cohoes intake. The assessment is summarized below. The assessment includes a susceptibility rating based on the risk posed by each potential source of contamination and how likely contaminants could enter the Mohawk River. The susceptibility rating is an estimate of the potential for contamination. It does not mean that the water delivered to your home is or will become unsafe to drink. See section "Are there contaminants in our drinking water?" of this report, for information concerning low levels of contaminants in your water.

This assessment found the amount of pasture in the Mohawk River assessment area results in a potential for protozoa contamination. While there are many facilities present along the Mohawk that are permitted to discharge, they do not represent an important threat to source water quality. However, it appears that the total amount of wastewater discharged to surface water in this assessment area is high enough to raise the potential for contamination (particularly for protozoa). Finally, it should be noted that relatively high flow velocities make river drinking water supplies highly sensitive to existing and new sources of microbial contamination.

The Cohoes water treatment plant performs multi level treatment to insure you receive safe drinking water. Additionally, as this annual report shows your water is routinely monitored for a great number of potential contaminants.

A copy of the full Source Water Assessment, including a map of the assessment area, is available for review by contacting us at the number provided in this report.

**CITY OF COHOES TABLE OF DETECTED CONTAMINANTS**  
**Public Water Supply Identification Number NY01000192**

Contaminant	Violation Y/N	Date of Sample	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Microbiological Contaminants							
Turbidity (Highest turbidity)	N	2/4/22	0.25 <sup>1</sup>	NTU	N/A	TT=1.0 NTU	Soil runoff
			100%			TT= 95% samples < 0.3	
Inorganic Contaminants							
Barium	N	8/16/22	26.0	µg/l	2000	MCL=2000	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chloride	N	8/16/22	44	mg/l	N/A	MCL=250	Geology; Naturally occurring
Color	N		15	units	N/A	15	Naturally occurring
Copper Range of copper concentration	N	8/29/22- 9/28/22	0.113 .00081- 0.132	mg/l	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits;
Fluoride	N	8/16/22	0.27	mg/l	N/A	MCL=2.2	Erosion of natural deposits;
Lead Range of lead concentration	N	8/29/22- 9/28/22	ND <sup>3</sup> ND- 2.5	µg/l	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Manganese	N	8/16/22	65.5	µg/l	N/A	MCL=300	Erosion of natural deposits
Nickel	N	8/16/22	0.7	µg/l	N/A	N/A	Naturally occurring
Nitrate	N	8/16/22	0.213	mg/l	10	MCL=10	Runoff from fertilizer use; leaching from septic tanks, sewage; erosion of natural deposits
Odor	N	8/16/22	2	units	N/A	MCL=3	Natural sources.
pH	N	8/16/22	6.5	units	N/A	6.5-8.5	
Sodium <sup>4</sup>	N	8/16/22	27.6	mg/l	N/A	N/A	Naturally occurring, Road salt
Sulfate	N	8/16/22	25.3	mg/l	mg/l	MCL=250	
Stage 2 Disinfection Byproducts (DBPs), (THM & HAA5							
Haloacetic Acids (HAA5)] (Average) <sup>5</sup> Range of Values for HAA5	N	2/9/22 5/12/22 8/10/22 11/10/22	LRAA1 36.8 <sup>5</sup> 29.4-42.2 LRAA2 23.4 <sup>5</sup> 13.5-32 LRAA3 37.7 <sup>5</sup> 20.2-37.2 LRAA4 27.8 <sup>5</sup> 14.7-35.8	µg/l	N/A	MCL=60	By-product of drinking water disinfection
Total Trihalomethanes] TTHM (Average) <sup>5</sup> Range of values for Total Trihalomethanes	N		LRAA1 58.9 <sup>5</sup> 35.1-85.4 LRAA2 64.3 <sup>5</sup> 44.4-92.6 LRAA3 64.8 <sup>5</sup> 43-102 LRAA4 54.4 <sup>5</sup> 34.3-73.9	µg/l	N/A	MCL=80	By-product of drinking water chlorination
Chlorine (average) Range of chlorine residual	N	Daily testing	1.2 0.14-1.93	mg/l	N/A	MCL=4	Used in the treatment and disinfection of drinking water
Total Organic Carbon Compliance Ratio	N	Monthly samples 2022	1.11-1.83	N/A	Compliance ratio >=1	TT <sup>6</sup>	Organic material both natural and manmade; Organic pollutants, decaying vegetation
Unregulated Contaminant Monitoring 4							
Manganese	N	1/10/18, 4/2/18, 7/23/18 10/22/18	3.25-791	µg/l	N/A	300	Naturally occurring
HAA9	N/A		22.3-54.9	µg/l	N/A	N/A	
HAA6	N/A		3.85-9.5	µg/l	N/A	N/A	
Bromide (Raw Water)	N/A		ND-23.2	µg/l	N/A	N/A	
Total Organic Carbon (Raw Water)	N/A		3.2-4.8	mg/l	N/A	N/A	
Unregulated Polyfluoalkyl Substaances and Regulate PFOA and PFOS Highlighted in Boldface							
PFBS	N	9/14/22	1.0	ng/l	N/A	10 <sup>7,8,9</sup>	Released into the environment from widespread use in commercial and industrial
PFBA			2.7				
PFHpA			0.89				

PFHxS			1.1				applications.
PFHxA			3.4				
PFOS			2.2				
PFOA			1.2				
PFPeA			3.7				

**FOOTNOTES-**

1. Turbidity is a measure of the cloudiness of the water. We monitor it because it is a good indicator of the effectiveness of our filtration system. Level detected represents the highest level detected. The regulations require 95% of the turbidity samples collected have measurements below 0.3 NTU. We met the standard 100% of the time. We also collect a distribution turbidity sample 5 times a week. Our average distribution turbidity for 2022 was 0.12 NTU.
2. The level presented represents the 90<sup>th</sup> percentile of 30 test sites. The action level for copper was not exceeded at any of the 30 sites tested
3. The level presented represents the 90<sup>th</sup> percentile of 30 test sites. The action level for lead was not exceeded at any of the 30 sites tested
4. Water containing more than 20 ppm should not be consumed by persons on severely restricted sodium diets; Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restricted sodium diets.
5. The average shown is based on a Locational Running Annual Average (LRAA). The LRAA3 shown is the highest of the 4 sample sites. The highest THM was in the 3<sup>rd</sup> quarter and the highest HAA5 was in the 2<sup>nd</sup> quarter.
6. The Interim Enhanced Surface Water Treatment Rule (IESWTR) requires monitoring of raw and finished water Total Organic Carbon (TOC). Depending on the raw water alkalinity value, proper water treatment should remove between 15% to 35% of the raw water TOC thus reducing the amount of disinfection byproducts produced. The removal or compliance ratio should be 1 or greater for each quarter.
7. Only PFOA and PFOS have a regulatory limit of 10 ng/l each.
8. All perfluoroalkyl substances, besides PFOA and PFOS, are considered Unspecified Organic Contaminants (UOC) which have an MC =0.05 mg/L or 50,000 ng/l.
9. USEPA Health Advisory Levels identify the concentration of a contaminant in drinking water at which adverse health effects and/or aesthetic effects are not anticipated to occur over specific exposure durations. Health Advisory Levels are not to be construed as legally enforceable federal standards and are subject to change as new information becomes available. PFBS (2000 ng/l) and HFPO-DA (10 ng/l ) also have Health Advisory Levels.



### Appendix A

#### New York State Sanitary Code Compliance Monitoring Requirements- Compounds Analyzed that were Below Limits of Detection

## CITY OF COHOES TEST RESULTS

[illegible]

Unregulated Perfluoroalkyl Substances / Regulated			
pfbs	Perfluorobutanesulfonic acid	NA	Hfpo-da
pfhpa	Perfluoroheptanoic acid	pfba	Perfluorobutanoic acid
pfhxs	Perfluorohexane sulfonic acid	6:2 fts	Perfluorooctane sulfonic acid
pfna	Perfluorononanoic acid	4:2 fts	Perfluorohexane sulfonic acid
<i>pfos</i>	<i>Perfluorooctane sulfonic acid</i>	8:2 fts	Perfluorodecane sulfonic acid
<i>pfoa</i>	<i>Perfluorooctanoic acid</i>	pfmpa	Perfluoro
pfda	Perfluorodecanoic acid	pfpea	Perfluoropentanoic acid
pfdoa	Perfluorododecanoic acid	pfmba	Perfluoro-4-methoxybutanoic acid
pfhxa	Perfluorohexanoic acid	pfeesa	Perfluoro(2-ethoxyethane)sulphonic acid
pfuna	Perfluoroundecanoic acid	nfdha	Nonafluoro-3,6-dioxaheptanoic acid
NA	n11cl-pf3ouds	pfpes	Perfluoropentane sulfonic acid
NA	9cl-pf3ons	pfhps	Perfluoroheptane sulfonic acid
NA	Adona		

Notes: The two regulated compounds are in italics and have MCLs of 10 ng/L each.

The remaining 23 compounds are unregulated.

All perfluoroalkyl substances, besides PFOA and PFOS, are considered Unspecified Organic Contaminants (UOC) which have an MCL = 0.05 mg/L or 50,000 ng/L