Town of Guilderland

Department of Water and Wastewater Management

2015
Annual Report

ANNUAL WATER QUALITY REPORT
2015

TOWN OF GUILDERLAND DEPARTMENT OF WATER AND WASTEWATER MANAGEMENT

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The year ending December 31, 2015

Town Supervisor
Peter Barber

Water Superintendent
Timothy McIntyre

Water Treatment Plant Supervisor
Dean Simms

A word from the Water Superintendent

Dear Customer,

We are pleased to provide you with our annual Water Supply Statement as required by New York State Public Health Law in compliance with 10 NYCRR, Subpart 5-1.72(e) to (I) and National Primary Drinking Water Regulations Part 141. It is requested that apartment complex owners and managers provide a copy of this report to all its tenants.

The Guilderland Water District and its professional staff are continually striving to provide you, our customers, with drinking water that is safe in quality, adequate in quantity, which meets and exceeds all state and federal standards. We are continuously developing plans for improvements to our water production facilities including water sources, distribution and storage. If you have any questions about this report or concerning your water utility, please contact me at the Water District Office at 456 - 6474. We want you, our customers to be informed about your water utility.

Timothy McIntyre
Superintendent

Description and Condition of Water Source

The Guilderland Water District's system is very large and complex. We maintain piping up to twenty inches in diameter. Pipe materials include ductile iron, cast iron, asbestos cement, copper and synthetic materials. The Town draws water from three different sources: The Watervliet Reservoir, processed at The Town of Guilderland Water Treatment Plant (W.T.P.); three Town owned wells; and fully treated water from The City of Albany which obtains its raw water from the Alcove Reservoir. In addition, we also have four storage tanks, Relyea [2.0 million gallons]; Westmere [1.0 million gallons]; Fort Hunter [1.0 millions gallons]; and Guilderland Water Treatment Plant Clearwell [1.0 millions gallons].

The Watervliet Reservoir is the primary source of raw water for the Guilderland Water District. The Town of Guilderland is permitted to use 5 MGD from the reservoir. The reservoir is located in the Town of Guilderland but is owned by the City of Watervliet. The reservoir has an impoundment area of 620 acres that captures water from a 113 square mile basin drained by the Norman's Kill, Bozen Kill and Black Creek.

The W.T.P. laboratory personnel, on a daily basis test raw water from the Watervliet reservoir. The tests conducted are for Chlorine level (+/- 1.5 mg/L), Turbidity (less than 0.3 unit), pH (+/- 7.7), Fluoride (+/- 1.0). Results of these tests are used to ensure proper dosing determination of treatment chemicals used at the W.T.P. Additionally, the City of Watervliet regularly tests the raw water quality of the reservoir and feeder streams to detect potential contamination. A summary of these tests is available for viewing at the Water District Office and at the Guilderland Public Library

Water Treatment

The Guilderland Filtration Plant is an automated facility designed to operate at a capacity of 5.0 million gallons per day (MGD). Raw water is pumped from the Watervliet Reservoir at the raw water pumping station. As the water enters the plant, Polyaluminumchloride (PAC) is added as a primary coagulant. Flocculation takes place in a series of stepped type units for a period of approximately 30 minutes. Then water flows from 60-degree tube settlers into mixed media filters. After the water is filtered through the mixed media filter, it is again filtered through the Granulated Activated Carbon (GAC) system. Final treatment of filtered water includes disinfection with chlorine, pH adjustment with caustic soda and the addition of sodium fluoride for dental protection. Parents should advise their dentist and pediatrician that the water supply is fluoridated.

Three wells are currently in use to supplement the reservoir supply. Wells 1 and 2 are located adjacent to Kaikout Kill near the intersection of State Farm Road and Nott Road. Well 3 is located adjacent to Blockhouse Creek south of wells 1 and 2. The New York State Department of Environmental Conservation (NYSDEC) has mandated that the total withdrawal rate from the wells not exceed 0.5 MGD on an annual basis. When Well water is used it is treated with chlorine and sodium fluoride. The Albany Emergency Interconnect is on the East Side of New Karner Road at the intersection of Charles Park Boulevard. A permanent Albany-Guilderland interconnect is located near the intersection of Gipp and Rapp Roads. A contractual agreement between the Town of Guilderland and the City of Albany allows for the transfer of up to 2MGD of water daily from this new facility. When Albany water is used, the Town of Guilderland adds chlorine and fluoride at the Interconnect.

Population Served

During 2015, The Guilderland Water District served an estimated population of **26,636**.

Water Usage

During 2014, the Guilderland Water District produced **1,116,688,000** gallons of water **(1.12 billion gallons), 859,325,000** gallons from plant production, **146,614,000** million gallons from City of Albany and **110,749,000** gallons from the Wells. The Water District is approximately 100 percent metered. Metered water use of **1,000,266,701** in addition to the **48,300,000** other accounted for water use equaled **1,048,566,701** total gallons of accounted for water usage for 2015. Based on an audit of production versus total accounted for water usage, the estimated unaccounted water is **6** percent of total production. Unaccounted for or lost water is water lost due to leaks, water main breaks, flushing, fires and meter inaccuracy within the transmission and distribution system.

Water Sources Restricted, Removed or Otherwise Limited in Use

During 2015, none of the Water District sources were restricted, removed from service or otherwise limited in use.

2015 Water Rates

The following annual charges were effective on January 1, 2015:

Ad Valorem Tax is $1.0886 per $1,000.00 of assessed evaluation.

Winter Cycle

00 - 30,000 gallons, $ 1.25 per thousand
30 - 50,000 gallons, $ 1.45 per thousand
over 50,000 gallons, $ 1.50 per thousand

Summer Cycle

00 - 30,000 gallons, $ 1.25 per thousand
30 - 60,000 gallons, $ 1.95 per thousand
over 60,000 gallons, $ 3.05 per thousand

A typical home in Guilderland uses 90,000 gallons of water annually. Based on the average assessment of $175,000 for a single family home the annual water bill is:

Annual Ad Valorem	$ 190.51
Annual Water Usage Cost	$ 135.00
Annual Average cost Total	$ 325.15

Conservation Tips from the Water Department

- **Follow Sprinkling Regulations - <u>May 1 - Sept 15 (Regulations enclosed) Odd - Even Rule Applies</u>**
- Run dishwasher with full loads only.
- Check home plumbing and fixtures for leaks.
- Use water - saving showerhead.
- Install faucet aerators on kitchen and bathroom faucets to reduce flow from 4 to 2.5 gallons per minute.
- Install and maintain automatic sprinkler system shutoff devices including rain shutoffs.
- Install and maintain other water saving devices.
- Use outdoor water wisely - only water when necessary - minimize duration of sprinkling - recommend one inch.
- Don't leave hoses running.
- Avoid washing the driveway - sweep instead.
- For proper operation and maintenance of your hot water heater, follow manufacturer's recommendations (owner's manual).
- If every person in the Town conserved 10 gallons of water a week, we could save 14 million gallons of water annually.
- Use water wisely. Do not waste it!
- Rain barrels are a convenient and efficient way to collect rainwater that can be used for irrigation. Catch those springs and summer showers and recycle nature's way.
- Build a "Rain Garden". A rain garden allows 30% more water to infiltrate into the ground than a conventional lawn.

For your information:

SIZE OF LEAK	WATER WASTED IN THREE MONTHS
1/32" drip	18,500 gallons
1/16" trickle	74,000 gallons
1/8" stream	296,500 gallons
1/4" stream	1,181,000 gallons

2015 Lawn Sprinkling Regulations

*6.8 In order to maintain sufficient water supply and pressure at all times for fire protection and household use, from **May 1st through September 15th** lawn sprinkling, garden sprinkling and other use of public water supply shall be restricted to the following days and times:*

A. Automatic Lawn Sprinkler Systems

1. *All dwellings, buildings, structures, lots, pieces or parcels of land connected to the public water supply, with even numbered addresses, and with automatic lawn sprinkler systems serviced by the municipal supply, may use the public water supply for outside lawn & garden sprinkling on even numbered calendar days 1:00 A.M. to 4:00 A.M. regardless of the nature of use of premises.*

2. *All dwellings, buildings, structures, lots, pieces or parcels of land connected to the public water supply, with odd numbered addresses, and with automatic sprinkling systems serviced by the municipal water supply, may use the public water supply for outside lawn & garden sprinkling on odd numbered calendar days 1:00 A.M. to 4:00 A.M. regardless of the nature of use of premises.*

3. *All dwellings, buildings, structures, lots, pieces or parcels of land connected to the public water supply, with automatic lawn & garden sprinkling systems serviced by the municipal supply, shall not be permitted to use manually placed and/or handheld lawn sprinklers outside of the times specified in (1.) and (2.) of this subparagraph.*

B. Manually Placed Lawn Sprinklers or Handheld Watering

1. *All dwellings, buildings, structures, lots, pieces or parcels of land connected to the public water supply, with even numbered street addresses, and without automatic lawn sprinkling systems serviced by the municipal supply, may use the public water supply for outside lawn & garden sprinkling on even numbered calendar days 6:30a.m. to 8:00a.m. and 6:30pm to 8:00pm regardless of the nature of use of the premises.*

2. *All dwellings, buildings, structures, lots, pieces or parcels of land connected to the public water supply, with odd numbered street addresses, and without automatic lawn sprinkler systems serviced by the municipal supply, may use the public water supply for outside lawn & garden sprinkling on odd numbered calendar days 6:30a.m. to 8:00a.m. and 6:30pm to 8:00pm regardless of the nature of use of premises.*

C. *The restrictions contained in subparagraphs (A) and (B) above shall not apply to hand sprinkling of outdoor gardens used for the growing of non-commercial foodstuffs and flower gardens.*

D. *In the event of a fire or other water emergency, the Supervisor, upon the recommendations of the Superintendent of the Department of Water and Wastewater Management, may modify or suspend any or all of the regulations relating to sprinkling for the duration of the emergency. The Department of Water and Wastewater management shall notify the public by publication or other appropriate manner of any modification or suspension of sprinkling as a result of such emergency.*

E. *Upon application of any person, the Supervisor, or his/her designee, may vary or modify the restrictions contained herein upon such terms and conditions as he/she deems appropriate. There shall be no appeal from the decision of the Supervisor on an application made under this subparagraph.*

F. *Nothing contained herein shall restrict the use of private wells for outside watering purposes, provided that a sign stating PRIVATE WELL must be displayed on the dwelling readable from the right-of-way. All private wells' water faucets must be permanently labeled. No interconnection of the private well with the public water system shall be permitted.*

G. *No person shall fill a swimming pool from the public water supply at any time without the approval of the Superintendent of the Department of Water and Wastewater Management. The Superintendent shall specify the quantity, time and method for filling of swimming pools.*

H. *Any person who violates these regulations shall be guilty of a violation and may be punishable by fine of not less than $50.00 for the first offense, and not less than $100.00 for any second or subsequent offense committed within the same calendar year.*

Water Distribution System Maintenance and Capital Improvement Summary

The water distribution system and treatment plant personnel provide daily maintenance which includes, but is not limited to, new service inspections, meter installation, meter readings, bi-annual flushing and repairs to water mains, pump repairs, investigation of leaks and repair or replacement of inoperable fire hydrants. The 2015 Capital improvements program projects included:

*Continuation of Phase #1 planning of Town of Guilderland potable water interconnection with the Town of Rotterdam. This project will include a water main extension of approximately 3,000 lineal feet of a 12" inch water main along State Route 158 to County Line Road.

*The upgrade to Well Pump #3 which consisted of a new high efficiency motor assembly, check valve, and variable frequency drive. Approximate cost $ 30,000.

*Upgrades and replacement of several Actuator valves and controls systems at Town of Guilderland Water Treatment Facility.

Guilderland Water District Things You Should Know

Water-powered sump pumps are normally used to back up conventional electric sump pumps in the event that the building loses electrical power. They are powered by municipal water pressure, and most units pump 2 gallons out of a basement sump for every 1 gallon of municipal water used. While an effective backup system, it should be noted that the system uses that additional water and will be reflected on your next water bill. This should not be used as your primary source of power for the system.

Pursuant to Local Law Article 271.11 – 271.17 these types of connections constitute a cross-connection and require the use of an appropriate backflow device. For further information please contact the Water District office at 456-6474.

Pursuant to the New York State Code section 1191.2 paragraph 4, it is illegal to "place or permit objects or materials to obscure or obstruct the use of fire hydrants and fire department connections".

In many cases landscaping around or near fire hydrants can cause them to become obscured and not readily seen or useable by your local Fire Department. This could affect their ability to effectively fight a fire thereby increasing the potential for life hazard and property damage

.

Trees, shrubs, retaining signs, fence posts etc. should be placed well back and to the sides of hydrants. If you have an existing situation or are planning a landscaping project, please call the Water District Office at 456-6474 for more details on required hydrant clearances. In cases where this situation is determined a problem, The Town will clear or correct the problem. Please be advised, if a property owner causes the problem, the owner may be liable for all costs.

Guilderland Sewer District Things You Should Know

As per the Districts sewer use ordinance (Local Law Number 2 of 1980), it is illegal for sump pumps, roof drains, storm drains or water that is not considered sewage to enter sanitary sewer system. The cost of treatment and the potential of creating a public health hazard are greatly increased when additional water is added to the collection system. Please check your sewer for such connections and, if necessary, disconnect. If you have any questions or need to know where such connections can be discharged, please contact the Sewer District Office at 456 – 6474.

Town of Guilderland's Wells
Source Water Assessment Summary

The NYS DOH has completed a Source Water Assessment for the Watervliet Reservoir and Guilderland's well. The assessments are 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 reservoir or the well's aquifer. The susceptibility rating is an estimate of the potential for contamination. It does not mean the water delivered to your home is or will become unsafe to drink. See section: "Are there contaminants in our water?" of this report for information concerning low levels of contaminants in your water.

Guilderland Wells

The potential impact of a chemical or microbes on a well (Susceptibility) is based on aquifer characteristics, proximity of potential contaminant sources and chemical and biological characteristics of the contaminant.

The assessment has determined that Well's # 1 & 2 are susceptible to nitrates. In the past, levels of nitrates in these two wells have been very low to non-detectable. Well # 3 is located in a more remote area. Due to this, the assessment has determined that this well has low susceptibility to all contaminant types.

Watervliet Reservoir

The assessment found the amount of agricultural lands in our Reservoir assessment area results in a potential for protozoa contamination. Other facilities such as landfills and golf courses could release other contaminants, such as pesticides and phosphorous.

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

Water Treatment Plant

Volatile Organic Compounds (VOC/POC) (53 Solvents and Petroleum Products) tests were completed in the fourth quarter of 2015. All results were below the associated MCL's. Inorganic Compounds (IOC + Nitrate) analyses were completed in the fourth quarter of 2015 for NEIP. All results were below the MCLs.

Well #1

Well #1 was out of service for 2015. No samples were taken.

Well # 2

Nitrate analysis was completed in the fourth quarter of 2015. All results were below the MCLs. Volatile Organic Compounds (VOC/POC) (53 Solvents and Petroleum Products) tests were completed in the fourth quarter of 2015. All results were below the associated MCL's.

Well # 3

Nitrate analysis was completed in the fourth quarter of 2015. All results were below the MCLs. Volatile Organic Compounds (VOC/POC) (53 Solvents and Petroleum Products) tests were completed in the fourth quarter of 2015. All results were below the associated MCL's.

Transmission and Distribution

Total Trihalomethane (TTHM) testing was done at 4 sites quarterly in 2015. Stage 2 Monitoring requires a Locational Running Annual Average (LRAA) to be calculated for each individual site. The LRAA at each site was below the MCL. Haloacetic Acid (HAA5) testing was done at 4 sites quarterly in 2015. The test included average, high and low levels. Similarly, this is also Stage 2 Monitoring. The LRAA for each site was below the MCL. Analysis for (Total Coliform/ E. *coli*) was conducted on a weekly basis. We collect 30 samples per month. One sample was total coliform positive in 2015 and all samples were *E. coli* negative in 2015.

Albany Interconnect

The water purchased from the City of Albany is tested in accordance with Part 5, New York Sanitary Code. A summary of the Albany testing is available at the Guilderland Water Office and the Guilderland Public Library.

Summary

During 2015 our system was in compliance with applicable state drinking water operating, monitoring and reporting requirements. Within the Guilderland Water District, all tests for compounds as required by Part 5, New York Sanitary Code and National Primary Drinking Water Regulations were completed although no compounds were above the MCLs. Additionally Well #1 was out of service for 2015.

A complete set of analytical tests performed in 2015 can also be reviewed at the Guilderland Water Office and the Guilderland Public Library.

Thank you for allowing us to continue providing your family with clean, quality water this year. We ask that all our customers help us protect our water system.

For further information, contact the Guilderland Water Office (456-6474), or the Albany County Department of Health (447-4625).

Health Effects Information

Additionally we are a required to furnish the following information:

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.

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 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).

Our system is one of the many drinking water systems in New York State that provides drinking water with a controlled, low level of fluoride for consumer dental health protection. According to the United States Centers for Disease Control, fluoride is very effective in preventing cavities when present in drinking water at an optimal range from 0.7 to 1.0 mg/l (parts per million). To ensure that the fluoride supplement in your water provides optimal dental protection, the State Department of Health requires that we monitor fluoride levels on a daily basis.

In late May of 2015, the Guilderland Water Department received notice from NYSDOH that the recommended optimal concentration for fluoride was lowered to 0.7 mg/l. No operating range was suggested. The Guilderland Water Department started lowering the levels during the months of June to the new recommended target level. From June 1st to December 31st the Town was within 0.2mg/l of the 0.7 mg/l target 91% of the time. From July to the end of year, the monthly average of fluoride was within 0.1 mg/l of the 0.7 mg/l target, with a maximum daily high of 1.0 mg/l and a minimum of 0.6 mg/l. During 2015 monitoring showed fluoride levels in your water were in the optimal range 100% of the time. None of the monitoring results showed fluoride at levels that approach the 2.2 mg/l MCL for fluoride.

Although our water system was in compliance with the lead and copper regulation, we are required to furnish the following information. 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 Town of Guilderland 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 water for drinking or cooking. If you are concerned about 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.*

Summary of Water Quality Analytical Testing

A summary of each analytical test performed in 2015 is attached and can also be reviewed at the Guilderland Water Office and the Guilderland Public Library and on the Town Website at www.TownofGuildelrand.org. For further information, contact the Guilderland Water Office (456-6474), the Albany County Department of Health (447-4625), or the EPA Hotline (800-426-4791).

In the tables 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:

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.

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.

90th Percentile Value- The values reported for lead and copper represent the 90th 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 90th 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

Running Annual Average **(RAA):** The RAA is calculated each quarter by taking the average of the four most recent samples collected.

N/A-not applicable.

TOWN OF GUILDERLAND WATER TREATMENT PLANT TABLE OF DETECTED CONTAMINANTS * Public Water Supply Identification Number NY0100205						
Contaminant		Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Microbiological Contaminants						
Total Coliform (sample from 7/8/15)	N	1 positive samples	N/A	0	Any positive sample	Naturally present in the environment
Turbidity [1] (sample from 9/9/15)	N	0.16	NTU	N/A	TT=1 NTU	Soil runoff
Turbidity	N	100%			TT= 95% samples < 0.3	
Inorganic Contaminants (Sample data 3/11/14 unless otherwise noted)						
Barium	N	24	ppb	2000	2000	Naturally occurring
Copper (sample data from 6/20/14-7/25/14) Range of copper concentration	N	0.45[2] ND-1.17	ppm	1.3	AL=1.3	Corrosion of household plumbing systems; erosion of natural deposits; leaching from wood preservatives
Chloride	N	103	ppm	N/A	250	Geology; Naturally occurring
Fluoride	N	630[3]	ppb	N/A	2200	Water additive which promotes strong teeth; erosion of natural deposits
Lead (sample data from 6/20/14-7/25/14) Range of lead concentration	N	4[4] ND-31	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Manganese	N	3.7	ppb	N/A	300	Naturally occurring
Nickel	N	1.3	ppb	NA	100	Discharge from steel/metal factories
pH	N	6.9	units		6.5-8.5	
Sodium[5]	N	61	ppm	N/A	N/A	Geology; Road Salt
Sulfate	N	20	ppm	N/A	250	Naturally Occurring,
Stage 2 Disinfection Byproducts (samples from 2/10/15, 5/12/15, 8/11/15 & 11/10/15)						
Haloacetic Acids [HAA5] (LRAA)[6] Range of values for HAA5	N	43.4 12.5-55.8	ppb	N/A	60	By-product of drinking water chlorination
Trihalomethanes [TTHM] (LRAA)[6]	N	74 31-119	ppb	0	80	By-product of drinking water chlorination
Chlorine Range of chlorine residual	N	1.38 0.74-1.76	ppm	MRDLG N/A	MRDL 4	Used in the treatment and disinfection of drinking water
Total Organic Carbon[7] -Control of Disinfection Byproducts (monthly samples from 2015)						
Total Organic Carbon Monthly Compliance Ratio	N	1.15-2.34	N/A	Compliance ratio>=1	TT[7]	Organic material both natural and man made; Organic pollutants, decaying vegetation,
Unregulated Contaminant Monitoring Regulation 3 (samples from 1/15/13, 4/2/13, 7/23/13 & 10/2/13)						
Strontium range of values	N	189-248	ppb	N/A	N/A	Erosion of natural deposits
Chromium Total range of values from 3rd & 4th qtrs.	N	0.2-0.3	ppb	100	100	Erosion of natural deposits
Vanadium	N	0.7	ppb	N/A	N/A	Erosion of natural deposits

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 that 95% of the turbidity samples collected have measurements below 0.3 NTU. We achieved 100% of the measurements below 0.3 NTU. Distribution system turbidity performed 5 times a week with 0.02 NTU being the lowest level detected and 0.89 NTU being the highest level detected and 0.19 NTU being the average.
2. The level presented represents the 90th percentile of 30 test sites. The action level for copper was not exceeded at any of the 30 sites tested.
3. See Information Concerning Fluoride under Health Effects Information on page 2.
4. The level presented represents the 90th percentile of 30 test sites. The action level for lead was exceeded at 1 of the 30 sites tested. See Information Concerning Lead on page 2
5. Water containing more than 20 ppm should not be consumed by persons on severely restricted sodium diets.
6. The LRAA represents the highest LRAA for 2015. The highest THM LRAAs were in the 4th quarter while the highest HAA5 LRAA was in the 1st quarter.
7. 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.
8. Unregulated Contaminant Monitoring 3 was conducted during 2013. 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 analytes measured for a total of 21 analytes. The breakdown of analytes is as follows: volatile organic chemicals (7), synthetic organic compounds (1), metals (6), oxyhalide anion (1) and perfluorinated compounds (6). We have listed those compounds that were detected in the table of Detected Contaminants. For some parameters there are no associated MCL's for these compounds at this time.

TOWN OF GUILDERLAND WATER TREATMENT PLANT TABLE OF DETECTED CONTAMINANTS * Public Water Supply Identification Number NY0100205						
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Microbiological Contaminants						
Total Coliform (sample from 7/8/15)	N	I positive samples	N/A	0	Any positive sample	Naturally present in the environment
Turbidity [1] (sample from 9/9/15)	N	0.16	NTU	N/A	TT=1 NTU	Soil runoff
Turbidity	N	100%			TT= 95% samples < 0.3	
Inorganic Contaminants (Sample data 3/11/14 unless otherwise noted)						
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Chloride	N	103	ppm	N/A	250	Geology; Naturally occurring
Fluoride	N	630[3]	ppb	N/A	2200	Water additive which promotes strong teeth; erosion of natural deposits
Lead (sample data from 6/20/14-7/25/14) Range of lead concentration	N	4[4] ND-31	ppb	0	AL=15	Corrosion of household plumbing systems, erosion of natural deposits
Manganese	N	3.7	ppb	N/A	300	Naturally occurring
Nickel	N	1.3	ppb	NA	100	Discharge from steel/metal factories
pH	N	6.9	units		6.5-8.5	
Sodium[5]	N	61	ppm	N/A	N/A	Geology; Road Salt
Sulfate	N	20	ppm	N/A	250	Naturally Occurring,
Stage 2 Disinfection Byproducts (samples from 2/10/15, 5/12/15, 8/11/15 & 11/10/15)						
Haloacetic Acids [HAA5] (LRAA)[5] Range of values for HAA5	N	43.4 12.5-55.8	ppb	N/A	60	By-product of drinking water chlorination
Trihalomethanes [TTHM] (LRAA)[6]	N	74 31-119	ppb	0	80	By-product of drinking water chlorination
Chlorine Range of chlorine residual	N	1.38 0.74-1.76	ppm	MRDLG N/A	MRDL 4	Used in the treatment and disinfection of drinking water
Total Organic Carbon[7] -Control of Disinfection Byproducts (monthly samples from 2015)						
Total Organic Carbon Monthly Compliance Ratio	N	1.15-2.34	N/A	Compliance ratio>=1	TT[7]	Organic material both natural and man made; Organic pollutants, decaying vegetation,
Unregulated Contaminant Monitoring Regulation 3 (samples from 1/15/13, 4/2/13, 7/23/13 & 10/2/13)						
Strontium range of values	N	189-248	ppb	N/A	N/A	Erosion of natural deposits
Chromium Total range of values from 3rd & 4th qtrs.	N	0.2-0.3	ppb	100	100	Erosion of natural deposits
Vanadium	N	0.7	ppb	N/A	N/A	Erosion of natural deposits

FOOTNOTES-

2. 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 that 95% of the turbidity samples collected have measurements below 0.3 NTU. We achieved 100% of the measurements below 0.3 NTU. Distribution system turbidity performed 5 times a week with 0.02 NTU being the lowest level detected and 0.89 NTU being the highest level detected and 0.19 NTU being the average.
2. The level presented represents the 90th percentile of 30 test sites. The action level for copper was not exceeded at any of the 30 sites tested.
3. See Information Concerning Fluoride under Health Effects Information on page 2.
4. The level presented represents the 90th percentile of 30 test sites. The action level for lead was exceeded at 1 of the 30 sites tested. See Information Concerning Lead on page 2
5. Water containing more than 20 ppm should not be consumed by persons on severely restricted sodium diets.
6. The LRAA represents the highest LRAA for 2015. The highest THM LRAAs were in the 4th quarter while the highest HAA5 LRAA was in the 1st quarter.
7. 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.
8. Unregulated Contaminant Monitoring 3 was conducted during 2013. 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 analytes measured for a total of 21 analytes. The breakdown of analytes is as follows: volatile organic chemicals (7), synthetic organic compounds (1), metals (6), oxyhalide anion (1) and perfluorinated compounds (6). We have listed those compounds that were detected in the table of Detected Contaminants. For some parameters there are no associated MCL's for these compounds at this time.

TOWN OF GUILDERLAND WELL 1 TABLE OF DETECTED CONTAMINANTS Public Water Supply Identification Number NY0100205						
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants (sample from 10/22/14 unless otherwise noted)						
Barium	N	55	ppb	2000	2000	Erosion of natural deposits
Chloride	N	13.5	ppm	N/A	250	Geology; Naturally occurring
Fluoride	548	0.68	ppb	N/A	2200	Erosion of natural deposits; water additive that promotes strong teeth
Iron[1]	Y	410	ppb	N/A	300	Geology; Naturally occurring
Manganese	N	180	ppb	N/A	300	Geology; Naturally occurring
pH	N	7.56	units		6.5-8.5	
Sodium[2]	N	40	ppm	N/A	N/A	Geology; Road Salt
Sulfate	N	107	ppm	N/A	250	Geology
Unregulated Contaminant Monitoring Regulation 3 (samples from 1/15/13 & 7/23/13) Blend of Wells 1 & 2						
Molybdenum range of values	N	9.7-12.9	ppb	N/A	N/A	Erosion of natural deposits
Strontium range of values	N	488-617	ppb	N/A	N/A	Erosion of natural deposits
Chlorate range of values	N	ND-222	ppb	N/A	1000	By-product of drinking water disinfection at treatment plants using Hypochlorite Solutions
Chromium Total range of values	N	ND-0.2	ppb	100	100	Erosion of natural deposits

FOOTNOTES:

1. Iron has no health effects. At 1000 ug/l a substantial number of people will note the bitter astringent taste of iron. Also, at this concentration, it imparts a brownish color to laundered clothing and stains plumbing fixtures with a characteristic rust color. Staining can result at levels of 50 ug/l, lower than those detectable to taste buds. Therefore, the MCL of 300 ug/l represents a reasonable compromise as adverse aesthetic effects are minimized at this level. Many multivitamins may contain 3000 or 4000 ug/l of iron per capsule.
2. Water containing more than 20 ppm of sodium should not be used for drinking by people on severely restricted sodium diets.

TOWN OF GUILDERLAND WELL 2 TABLE OF DETECTED CONTAMINANTS* Public Water Supply Identification Number NY0100205						
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants (samples from 10/20/14 unless otherwise noted)						
Barium	N	150	ppb	2000	2000	Erosion of natural deposits
Chloride	N	12.4	ppm	N/A	250	Geology; Naturally occurring
Fluoride	N	870	ppb	N/A	2.2	Erosion of natural deposits; water additive that promotes strong teeth
Iron	N	110	ppb	N/A	300	Geology; Naturally occurring
Manganese	N	62	ppb	N/A	300	Geology; Naturally occurring
pH	N	7.50	units		6.5-8.5	
Sodium[1]	N	45	ppm	N/A	N/A	Geology; Road Salt
Sulfate	N	18.6	ppm	N/A	250	Geology;

FOOTNOTES:

1. Water containing more than 20 ppm of sodium should not be used for drinking by people on severely restricted sodium diets.

TOWN OF GUILDERLAND WELL 3 TABLE OF DETECTED CONTAMINANTS* Public Water Supply Identification Number NY0100205						
Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Inorganic Contaminants (samples from 10/20/14 unless otherwise noted)						
Barium	N	59	ppb	2000	2000	Erosion of natural deposits
Chloride	N	19.7	ppm	N/A	250	Geology; Naturally occurring
Fluoride	N	500	ppb	N/A	2.2	Erosion of natural deposits; water additive that promotes strong teeth
Iron[1]	N	380	ppb	N/A	300	Geology; Naturally occurring
Manganese[1]	N	150	ppb	N/A	300	Geology; Naturally occurring
pH	N	7.48	units		6.5-8.5	
Sodium[2]	N	49	ppm	N/A	N/A	Geology; Road Salt
Sulfate	N	107	ppm	N/A	250	Geology;
Unregulated Contaminant Monitoring Regulation 3 (samples from 1/15/13 & 7/23/13) Well 3 Only						
Molybdenum range of values	N	10.8-14.7	ppb	N/A	N/A	Erosion of natural deposits
Strontium range of values	N	987-1030	ppb	N/A	N/A	Erosion of natural deposits
Chlorate range of values	N	ND-264	ppb	N/A	1000	By-product of drinking water disinfection at treatment plants using Hypochlorite Solutions
Chromium Total	N	ND-0.3	ppb	100	100	Erosion of natural deposits

FOOTNOTES:

1. The manganese concentration is greater than the MCL of 300 ppb but when iron and manganese are both present the state allows a combined concentration of 500 ppb.
2. Water containing more than 20 ppm of sodium should not be used for drinking by people on severely restricted sodium diets.

CITY OF ALBANY TABLE OF DETECTED CONTAMINANTS*
Public Water Supply Identification Number NY0100189

Contaminant	Violation Y/N	Level Detected	Unit Measurement	MCLG	MCL	Likely Source of Contamination
Microbiological Contaminants						
Total Coliform (1 samples from 8/21/15, & 1 from 9/11/15	N	2 positive samples total	N/A	0	5% or more positive samples of sites sampled per month	Naturally present in the environment
Turbidity (highest level detected at various times)	N	0.07 100%	NTU	N/A	TT=1 NTU TT= 95% samples < 0.3	Soil runoff
Inorganic Contaminants (Daily and weekly samples from November 2015 unless otherwise noted)						
Barium	N	4.0	ppb	2000	2000	Discharge of drilling wastes; discharge from metal refineries; erosion of natural deposits
Chloride (average) (range) based on daily samples	N	29.2 25.7-31.2	ppm	N/A	250	Geology; Naturally occurring
Color (average/maximum) (range) based on daily samples	N	1.1 1.0-3.0	units	N/A	15	Large quantities of organic chemicals, inadequate Natural color may be caused by decaying leaves, plants, and soil organic matter.
Manganese	N	1.5	ppb	N/A	300	Erosion of natural deposits
Odor [daily samples] (average/maximum) (range) based on daily samples	N	1.9 1-2	units	N/A	3	Organic or inorganic pollutants originating from municipal and industrial waste discharges: natural sources
Sodium[2]	N	15.9	ppm	N/A	N/A	Geology; Road Salt
Sulfate (average) (range) based on monthly samples	N	10 9.1-11.3	ppm	N/A	250	Naturally Occurring,
Total Organic Carbon (Daily samples from 2015)						
Treated Water (average) (range Low, High)	N	1.6 1.3-2.3	ppm	NA	TT	Organic material both natural and manmade; Organic pollutants, decaying vegetation,
Disinfection Byproducts Stage 2 (quarterly samples)						
Total Trihalomethanes [TTHM] average Range of values	N	43 37-54	ppb	0	80	By-product of drinking water chlorination
Haloacetic Acids [HAA5] average Range of values	N	13 9.5-16	ppb	N/A	60	By-product of drinking water chlorination
Chlorine (daily samples) average Range of chlorine residual	N	1.01 0.93-1.54	ppm	MRDLG N/A	MRDL 4	Used in the treatment and disinfection of drinking water
Radionuclides (bi-weekly sample data from 2015 unless otherwise noted)						
Alpha Particles (average) Bi-weekly samples (range)	N	0.8 ND-4.0	pCi/L	0	15	Erosion of natural deposits
Beta particles (average) Bi-weekly samples (range)	N	1.4 ND-3.4	pCi/L	0	50[3]	Decay of natural deposits and man-made emissions
Radium 226 & 228 (average) range of values Bi-yearly samples from 2010	N	0.68 ND-0.85	pCi/L	0	5	Erosion of natural deposits
Volatile Organic Compounds						
Chloromethane	N	0.54	ppb	NA	5	Leaching from landfills and formation via microbial degradation of other chlorinated solvents
Unregulated Contaminant Monitoring Regulation 3[4] (samples from 3/25/14, 5/13/14, 8/19/14 & 11/19/14)						
Chromium (VI)	N	0.05-0.10	ppb	N/A	N/A	Erosion of natural deposits
Chromium	N	0.3-0.4	ppb	100	100	Erosion of natural deposits
Stontium	N	46-53.5	ppb	N/A	N/A	Erosion of natural deposits
Vanadium	N	0.9-1.0	ppb	N/A	N/A	Erosion of natural deposits

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. Our highest single turbidity measurement for the year was (0.07 NTU). State regulations require that entry point turbidity must always be below 1.0NTU. State regulations require that 95% of the turbidity samples collected have measurements below 0.30 NTU.
2. Water containing more than 20 mg/l should not be consumed by persons on severely restricted sodium diets; Water containing more than 270 mg/l should not be consumed by persons on moderately restricted sodium diets.
3. The state considers 50 pCi/L to be the level of concern for beta particles
4. Unregulated Contaminant Monitoring 3 was conducted during 2013. 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 analytes measured for a total of 21 analytes. The breakdown of analytes is as follows: volatile organic chemicals (7), synthetic organic compounds (1), metals (6), oxyhalide anion (1) and perfluorinated compounds (6). We have listed those compounds that were detected in the table of Detected Contaminants. For some parameters there are no associated MCL's for these compounds at this time.

*The tables presented for City of Albany depict only those analytes that were detected. Many of the test results were **NOT DETECTABLE.** The type/group (number of contaminants in each group) tested for were as follows: volatile organic compounds (52) +MTBE, synthetic organic compounds (38), asbestos,
The inorganic contaminants tested for and not detected were: arsenic, cadmium, chromium, mercury, silver, selenium, antimony, beryllium, thallium, zinc, iron, fluoride and cyanide; microbiological contaminant E. coli.

PUBLIC WATER SUPPLY	SAMPLE ID #	SAMPLE LOCATION	DATE COLLECTED	TOTAL TRIHALOMETHANE	THM LRAA	Total Haloacetic Acid	HAA5 LRAA
Town of Guilderland Water Department	JH1403038	STAGE 2: Best Western & 1228 Grill	05/13/2014	58.1		33	
Town of Guilderland Water Department	JH1405545	STAGE 2: Best Western & 1228 Grill	08/12/2014	65		6.45	
Town of Guilderland Water Department	JH1408080	STAGE 2: Best Western & 1228 Grill	11/12/2014	45.5		6	
Town of Guilderland Water Department	JH1500796	STAGE 2: Best Western & 1228 Grill	02/10/2015	42.6	52.8	18.9	16.0875
Town of Guilderland Water Department	JH1502764	STAGE 2: Best Western & 1228 Grill	05/12/2015	52.4	51.375	13.2	11.1375
Town of Guilderland Water Department	JH1505233	STAGE 2: Best Western & 1228 Grill	08/11/2015	79.2	54.925	25.8	15.975
Town of Guilderland Water Department	JH1507617	STAGE 2: Best Western & 1228 Grill	11/10/2015	76.5	62.675	35	23.225
Town of Guilderland Water Department	JH1403032	STAGE 2: 1 Terry Ave (for Getty 2Gas)	05/13/2014	66.4		74.2	
Town of Guilderland Water Department	JH1405547	STAGE 2: 1 Terry Ave (for Getty 2Gas)	08/12/2014	109		50.5	46.375
Town of Guilderland Water Department	JH1408084	STAGE 2: 1 Terry Ave (for Getty 2Gas)	11/12/2014	54.6		9.51	42.3025
Town of Guilderland Water Department	JH1500800	STAGE 2: 1 Terry Ave (for Getty 2Gas)	02/10/2015	37.1	66.775	25.9	40.0275
Town of Guilderland Water Department	JH1502762	STAGE 2: 1 Terry Ave (for Getty 2Gas)	05/12/2015	63.6	66.075	21.9	
Town of Guilderland Water Department	JH1505235	STAGE 2: 1 Terry Ave (for Getty 2Gas)	08/11/2015	119	68.575	50.8	
Town of Guilderland Water Department	JH1507611	STAGE 2: 1 Terry Ave (for Getty 2Gas)	11/10/2015	76.1	73.95	46	36.15
Town of Guilderland Water Department	JH1403034	STAGE 2: Serifini Dr Pump Station	05/13/2014	56.6		40.6	
Town of Guilderland Water Department	JH1405549	STAGE 2: Serifini Dr Pump Station	08/12/2014	85.1		77.2	
Town of Guilderland Water Department	JH1408086	STAGE 2: Serifini Dr Pump Station	11/12/2014	39.5		15.6	
Town of Guilderland Water Department	JH1500802	STAGE 2: Serifini Dr Pump Station	02/10/2015	31	53.05	21.9	38.825
Town of Guilderland Water Department	JH1502766	STAGE 2: Serifini Dr Pump Station	05/12/2015	44.4	50	15.4	32.525
Town of Guilderland Water Department	JH1505239	STAGE 2: Serifini Dr Pump Station	08/11/2015	98.2	53.275	55.78	27.17
Town of Guilderland Water Department	JH1507613	STAGE 2: Serifini Dr Pump Station	11/10/2015	55.8	57.35	38	32.77
Town of Guilderland Water Department	JH1403036	STAGE 2: Westmere Tower	05/13/2014	48.3		31.6	
Town of Guilderland Water Department	JH1405551	STAGE 2: Westmere Tower	08/12/2014	69.5		17.1	
Town of Guilderland Water Department	JH1408082	STAGE 2: Westmere Tower	11/12/2014	49.5		9.6	
Town of Guilderland Water Department	JH1500798	STAGE 2: Westmere Tower	02/10/2015	35.8	50.775	24.7	20.75
Town of Guilderland Water Department	JH1502760	STAGE 2: Westmere Tower	05/12/2015	42	49.2	12.5	15.975
Town of Guilderland Water Department	JH1505237	STAGE 2: Westmere Tower	08/11/2015	58.2	46.375	23.9	17.675
Town of Guilderland Water Department	JH1507615	STAGE 2: Westmere Tower	11/10/2015	64.6	50.15	46	26.775

Sampling Reporting Requirements for TOC Compliance
TOC Removal Reporting Form

Public Water Supply: Guilderland Water Treatment Plant
Federal Water Supply Code: NY0100205

		A	B	C	D	E	F	G	H	I
Month and Quarter* 1,2,3 1st Q-2015	**Sample Date and Time**	**Source TOC, mg/L**	**Source Alkalinity, mg/L as CaCO3**	**Treated TOC, mg/L**	**Req'd % Removal, (from Table 3)**	**Actual % Removal** {1-(C/A)}	**Compliance Ratio (E/D)**	**Alt. Compliance Score (1.0), if using**	**Alt. Compliance Number, if used (from Table 4)**	**Quarterly Avg. Compliance Ratio**
Sample Location Number	Raw Water / Treated Water				--------	--------	--------	--------	--------	--------
Month 1	1/13/15;7:55 AM / 1/13/15;8:00 AM	4.0	94	2.4	25	39.5	1.58			--------
Month 2	2/10/15;7:55 AM / 2/10/15;8:00 AM	3.2	117	2.0	25	38.8	1.55			--------
Month 3	3/10/15;8:50 AM / 3/10/15;9:13 AM	2.64	138.8	1.82	15	31.1	2.07			--------
Present (1Q) Quarterly Avg.	--------				----------	----------	----------	----------		1.73
Previous (4Q) Quarterly Avg.	--------				----------	----------	----------	----------		1.68
Previous (3Q) Quarterly Avg.	--------				----------	----------	----------	----------		1.46
Previous (2Q) Quarterly Avg.	--------				----------	----------	----------	----------		1.41
RAA, based on averages of last 4 quarters	--------				----------	----------	----------	----------	----------	1.57

- Enter month and quarter, e.g. Month 1 = April, Present Quarter = 2Q, Previous Quarter = 1Q
- N/A Not applicable TOC is <2 mg/L
- ? Compliance Ratio not applicable use compliance ratio of 1.00 for calculations

Sampling Reporting Requirements for TOC Compliance
TOC Removal Reporting Form

Public Water Supply: Guilderland Water Treatment Plant
Federal Water Supply Code: NY0100205

		A	B	C	D	E	F	G	H	I
Month and Quarter* 1,2,3 2nd Q-2015	**Sample Date and Time**	**Source TOC, mg/L**	**Source Alkalinity, mg/L as CaCO3**	**Treated TOC, mg/L**	**Req'd % Removal, (from Table 3)**	**Actual % Removal** {1-(C/A)}	**Compliance Ratio (E/D)**	**Alt. Compliance Score (1.0), if using**	**Alt. Compliance Number, if used (from Table 4)**	**Quarterly Avg. Compliance Ratio**
Sample Location Number	Raw Water Treated Water				--------	--------	--------	--------	--------	--------
Month 1	4/14/15;7:35 AM 4/14/15;7:44 AM	4.0	61.2	2.1	25	47.1	1.88			--------
Month 2	5/12/15;8:50 AM 5/12/15;8:24 AM	4.0	101	2.4	35	40.3	1.15			--------
Month 3	6/15/15;12:00 PM 6/15/15;11:45 AM	5.95	93	1.51	35	74.6	2.13			--------
Present (2Q) Quarterly Avg.	--------				----------	----------	----------	----------		1.72
Previous (1Q) Quarterly Avg.	--------				----------	----------	----------	----------		1.73
Previous (4Q) Quarterly Avg.	--------				----------	----------	----------	----------		1.68
Previous (3Q) Quarterly Avg.	--------				----------	----------	----------	----------		1.46
RAA, based on averages of last 4 quarters	--------				----------	----------	----------	----------	----------	1.65

- Enter month and quarter, e.g. Month 1 = April, Present Quarter = 2Q, Previous Quarter = 1Q
- N/A Not applicable TOC is <2 mg/L
- ? Compliance Ratio not applicable use compliance ratio of 1.00 for calculations

Sampling Reporting Requirements for TOC Compliance
TOC Removal Reporting Form

Public Water Supply: Guilderland Water Treatment Plant
Federal Water Supply Code: NY0100205

		A	B	C	D	E	F	G	H	I
Month and Quarter* 1,2,3 3rd Q-2015	**Sample Date and Time**	**Source TOC, mg/L**	**Source Alkalinity, mg/L as CaCO3**	**Treated TOC, mg/L**	**Req'd % Removal, (from Table 3)**	**Actual % Removal** {1-(C/A)}	**Compliance Ratio (E/D)**	**Alt. Compliance Score (1.0), if using**	**Alt. Compliance** Number, if used (from Table 4)	**Quarterly Avg. Compliance Ratio**
Sample Location Number	Raw Water / Treated Water				--------	--------	--------	--------	--------	--------
Month 1	7/14/15;8:30 AM / 7/14/15;8:07 AM	6.0	107	2.5	35	57.5	1.64			--------
Month 2	8/11/15;8:10 AM / 8/11/15;8:22 AM	5.4	132	2.8	25	48.1	1.92			--------
Month 3	9/10/15;8:10 AM / 9/10/15;8:22 AM	6.02	131	4.12	25	31.6	1.26			--------
Present (3Q) Quarterly Avg.	--------				----------	----------	----------	----------		1.61
Previous (2Q) Quarterly Avg.	--------				----------	----------	----------	----------		1.72
Previous (1Q) Quarterly Avg.	--------				----------	----------	----------	----------		1.73
Previous (4Q) Quarterly Avg.	--------				----------	----------	----------	----------		1.68
RAA, based on averages of last 4 quarters	--------				----------	----------	----------	----------	----------	1.69

- Enter month and quarter, e.g. Month 1 = April, Present Quarter = 2Q, Previous Quarter = 1Q
- N/A Not applicable TOC is <2 mg/L
- ? Compliance Ratio not applicable use compliance ratio of 1.00 for calculations

Sampling Reporting Requirements for TOC Compliance
TOC Removal Reporting Form

Public Water Supply: Guilderland Water Treatment Plant
Federal Water Supply Code: NY0100205

		A	B	C	D	E	F	G	H	I
Month and Quarter* 1,2,3 4th Q-2015	**Sample Date and Time**	**Source TOC, mg/L**	**Source Alkalinity, mg/L as CaCO3**	**Treated TOC, mg/L**	**Req'd % Removal, (from Table 3)**	**Actual % Removal {1-(C/A)}**	**Compliance Ratio (E/D)**	**Alt. Compliance Score (1.0), if using**	**Alt. Compliance Number, if used (from Table 4)**	**Quarterly Avg. Compliance Ratio**
Sample Location Number	Raw Water / Treated Water									
Month 1	10/13/15;9:42 AM / 10/13/15;9:10 AM	6.0	107	2.5	35	57.5	1.64			
Month 2	11/10/15;8:50 AM / 11/10/15;8:25 AM	5.2	123	2.2	25	58.6	2.34			
Month 3	12/8/15;7:45 AM / 12/8/15;7:45 AM	4.76	121	2.19	25	54.0	2.16			
Present (4Q) Quarterly Avg.										2.05
Previous (3Q) Quarterly Avg.										1.61
Previous (2Q) Quarterly Avg.										1.72
Previous (1Q) Quarterly Avg.										1.73
RAA, based on averages of last 4 quarters										1.78

- Enter month and quarter, e.g. Month 1 = April, Present Quarter = 2Q, Previous Quarter = 1Q
- N/A Not applicable TOC is <2 mg/L
- ? Compliance Ratio not applicable use compliance ratio of 1.00 for calculations

JH CONSULTING GROUP, INC
PO BOX 705
NEWTONVILLE, NY 12128
(518) 785-9839

LABORATORY REPORT

Sample ID JH1407478 **Customer Code** 0703

Federal Water Supply Code NY0100205 **DOH** Alb Tom

Water Supply Town of Guilderland Water Department

Address State Farm Road , Guilderland , NY 12084

Sample Location Well # 2 hydrant

Date Collected 10/20/2014 **Time Collected** 2:00 PM

Sample Collector BF/GM

Date Printed 4/1/2016

Date Entered 10/31/2014

Part V Table 8D Inorganic Chemicals & Physical Characteristics

Table 8D SECONDARY INORGANIC STANDARDS	CONCENTRATION mg/L	Time analyzed	MCL	METHOD	Date analyzed	NYS Lab
Chloride	**12.4**		250.0	EPA 300.0	10/27/2014	11216
Iron	**0.11**		0.3	EPA 200.7	10/24/2014	11650
Manganese	**0.062**		0.3	EPA 200.7	10/24/2014	11650
Silver	**<0.0010**			EPA 200.8	10/24/2014	11650
Sodium	**45**		see note	EPA 200.7	10/24/2014	11650
Sulfate	**18.6**		250.0	EPA 300.0	10/27/2014	11650
Zinc	**<0.010**		5.0	EPA 200.7	10/24/2014	11650
Color (units)	**5.00**		15 units	SM2120B	10/21/2014	11216
Odor	**<1.00**		3 units	SM2150B	10/21/2014	11216
pH*	**7.50**	10:24	6.5-8.5 units	SM4500-H B	10/24/2014	11216
Temperature, celsius	**21.1**				10/24/2014	11216

Note: Water containing more than 20 mg/l sodium should not be used for drinking by people on severely restricted sodium diets.
Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restristed sodium diets.
*As of 4/1/12, pH is no longer a state certified analysis.

JH CONSULTING GROUP, INC
PO BOX 705
NEWTONVILLE, NY 12128
(518) 785-9839

LABORATORY REPORT

Sample ID JH1407478 **Customer Code** 0703

Federal Water Supply Code NY0100205 **DOH** Alb Tom

Water Supply Town of Guilderland Water Department

Address State Farm Road , Guilderland , NY 12084

Sample Location Well # 2 hydrant

Date Collected 10/20/2014 **Time Collected** 2:00 PM

Sample Collector BF/GM

Date Printed 4/1/2016

Date Entered 10/31/2014

Part V Table 8B Inorganic Chemicals & Physical Characteristics

Table 8B

ANALYTE	CONCENTRATION mg/L	MCL	METHOD	Date analyzed	NYS Lab
Arsenic	**<0.0010**	0.01	EPA 200.8	10/24/2014	11650
Barium	**0.15**	2.00	EPA 200.8	10/24/2014	11650
Cadmium	**<0.0010**	0.005	EPA 200.8	10/24/2014	11650
Chromium	**<0.0010**	0.10	EPA 200.8	10/24/2014	11650
Mercury	**<0.000200**	0.002	EPA 245.1	10/23/2014	11650
Selenium	**<0.0010**	0.05	EPA 200.8	10/24/2014	11650
Fluoride	**0.870**	2.2	EPA 300.0	10/27/2014	11216

	mg/L	MCL	METHOD	Date analyzed	NYS Lab
Antimony	**<0.0010**	0.006	EPA 200.8	10/24/2014	11650
Beryllium	**<0.0010**	0.004	EPA 200.8	10/24/2014	11650
Nickel	**<0.0010**	0.1	EPA 200.8	10/24/2014	11650
Thallium	**<0.0010**	0.002	EPA 200.8	10/24/2014	11650
Cyanide	**0.0484**	0.2	EPA 335.4	10/28/2014	11216

Table 8C	mg/L	set up time	MCL	METHOD	Date analyzed	NYS Lab
Nitrate°	**<0.23**	12:55	10 mg/l as N	Hach 10206	10/21/2014	11799
Nitrite	**NT**		1 mg/l as N	SM18-4500-NO2 B		

JH CONSULTING GROUP, INC

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NEWTONVILLE, NY 12128
(518) 785-9839

PHASE II AND PHASE V MONITORING

SAMPLE INFORMATION

Sample ID	JH1506941	**Customer Code**	0703
Federal Water Supply Code	NY0100205	**DOH**	Alb Tom Brady
Water Supply	Town of Guilderland Water Department		
Address	State Farm Road	, Guilderland	, NY , 12084
Sample Location	Well #2, Hydrant		
Date Collected	10/13/2015	**Time Collected**	11:15 AM
Sample Collector	Greg Mahar	**E-Mail**	yes
Date Printed	10/15/2015		

LABORATORY REPORT

ANALYTE	CONCENTRATION MG/L		METHOD	MCL *	Date Analyzed	Lab ID Number
INORGANICS Table 8C		set up time				
Nitrate	<0.23	10:30	Hach 10206	10 mg/l as N	10/15/2015	1179
Nitrite	NT		EPA 354.1	1 mg/l as N		

Notes:

MCL* is the Maximum Contaminant Level; it is the maximum concentration allowed in drinking water for a specific analyte as per NYS Sanitary Code. Hold time for nitrate per ELAP requirements is 48 hours for potable, non-chlorinated water samples and 14 days for potable, chlorinated water supplies. Samples for nitrate testing are also required to be received at 4 degrees Celsius or delivered to the laboratory on ice in the chilling process.

Legend: MG/L = Milligrams per Liter; < = Less Than; > = Greater Than;
mg/L = Parts per million; ug/L = Parts per billion; NT= Not Tested NC = Not Chlorinated

The above test procedures meet all the requirements of NELAC and relate only to these samples

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SAMPLE ID# JH1506944 **SUPPLY CODE** 0703

PUBLIC WATER SUPPLY Town of Guilderland Water Department **FEDERAL ID#** NY0100205

ADDRESS State Farm Road Guilderland NY 12084 **DOH** Alb Tom Brady

SAMPLE LOCATION Well #2, Hydrant E-mail yes

DATE COLLECTED 10/13/2015 **TIME COLLECTED** 11:15 AM **SAMPLER** Greg Mahar **Date Printed** 3/28/2016

Volatile Organic Chemical Analysis EPA Method 524.2 Table 98 **NYS Lab** 10350 **Date Analyzed** 10/26/2015

PARAMETER	CONCENTRATION UG/L	MCL	PARAMETER	CONCENTRATION UG/L	MCL
BENZENE	<0.5	5	2,2-DICHLOROPROPANE	<0.5	5
BROMOBENZENE	<0.5	5	1,1-DICHLOROPROPENE	<0.5	5
BROMOCHLOROMETHANE	<0.5	5	1,3-DICHLOROPROPENE (TOTAL)	<0.5	5
BROMOMETHANE	<0.5	5	ETHYLBENZENE	<0.5	5
N-BUTYLBENZENE	<0.5	5	HEXACHLOROBUTADIENE	<0.5	5
SEC-BUTYLBENZENE	<0.5	5	ISOPROPYLBENZENE	<0.5	5
TERT-BUTYLBENZENE	<0.5	5	P-ISOPROPYLTOLUENE	<0.5	5
CARBON TETRACHLORIDE	<0.5	5	METHYLENE CHLORIDE	<0.5	5
CHLOROBENZENE	<0.5	5	N-PROPYLBENZENE	<0.5	5
CHLOROETHANE	<0.5	5	STYRENE	<0.5	5
CHLOROMETHANE	<0.5	5	1,1,1,2-TETRACHLOROETHANE	<0.5	5
2-CHLOROTOLUENE	<0.5	5	1,1,2,2-TETRACHLOROETHANE	<0.5	5
4-CHLOROTOLUENE	<0.5	5	TETRACHLOROETHENE	<0.5	5
DIBROMOMETHANE	<0.5	5	TOLUENE	<0.5	5
1,2-DIBROMOETHANE	<0.5	5	1,2,3-TRICHLOROBENZENE	<0.5	5
1,2-DICHLOROBENZENE	<0.5	5	1,2,4-TRICHLOROBENZENE	<0.5	5
1,3-DICHLOROBENZENE	<0.5	5	1,1,1-TRICHLOROETHANE	<0.5	5
1,4-DICHLOROBENZENE	<0.5	5	1,1,2-TRICHLOROETHANE	<0.5	5
DICHLORDIFLUOROMETHANE	<0.5	5	TRICHLOROETHENE	<0.5	5
1,1-DICHLOROETHANE	<0.5	5	TRICHLOROFLUOROMETHANE	<0.5	5
1,2-DICHLOROETHANE	<0.5	5	1,2,3-TRICHLOROPROPANE	<0.5	5
1,1-DICHLOROETHENE	<0.5	5	1,2,4-TRIMETHYLBENZENE	<0.5	5
CIS-1,2-DICHLOROETHENE	<0.5	5	1,3,5-TRIMETHYLBENZENE	<0.5	5
TRANS-1,2-DICHLOROETHENE	<0.5	5	VINYL CHLORIDE	<0.5	2
1,2-DICHLOROPROPANE	<0.5	5	M-XYLENE	<0.5	5
1,3-DICHLOROPROPANE	<0.5	5	O-XYLENE	<0.5	5
Methyl Tert Butyl Ether	<0.5	10	P-XYLENE	<0.5	5

Notes The surrogate recoveries of 4-Bromofluorobenzene and 1,2-Dichlorobenzene-d4 for this sample were within acceptance limits at 96% and 90% respectively. The acceptance limits are 80-120%.
Temperature Outside Specifications.

The accompanying trip blank was found to be less than the required detection limit for POC/VOC
MCL = Maximum Contaminant Level referenced from New York State Subpart 5-1 of the Public Drinking Water Standards

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(518) 785-9839

PHASE II AND PHASE V MONITORING

SAMPLE INFORMATION

Sample ID JH1506942 **Customer Code** 0703

Federal Water Supply Code NY0100205 **DOH** Alb Tom Brady

Water Supply Town of Guilderland Water Department

Address State Farm Road , Guilderland , NY , 12084

Sample Location Well #3

Date Collected 10/13/2015 **Time Collected** 11:30 AM

Sample Collector Greg Mahar **E-Mail** yes

Date Printed 10/15/2015

LABORATORY REPORT

ANALYTE	CONCENTRATION MG/L		METHOD	MCL *	Date Analyzed	Lab ID Number
INORGANICS Table 8C		set up time				
Nitrate	<0.23	10:30	Hach 10206	10 mg/l as N	10/15/2015	1179
Nitrite	NT		EPA 354.1	1 mg/l as N		

Notes:

MCL* is the Maximum Contaminant Level; it is the maximum concentration allowed in drinking water for a specific analyte as per NYS Sanitary Code. Hold time for nitrate per ELAP requirements is 48 hours for potable, non-chlorinated water samples and 14 days for potable, chlorinated water supplies. Samples for nitrate testing are also required to be received at 4 degrees Celsius or delivered to the laboratory on ice in the chilling process.

Legend: MG/L = Milligrams per Liter; < = Less Than; > = Greater Than;
mg/L = Parts per million; ug/L = Parts per billion; NT= Not Tested NC = Not Chlorinated

The above test procedures meet all the requirements of NELAC and relate only to these samples

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SAMPLE ID# JH1506945 **SUPPLY CODE** 0703

PUBLIC WATER SUPPLY Town of Guilderland Water Department **FEDERAL ID#** NY0100205

ADDRESS State Farm Road Guilderland NY 12084 **DOH** Alb Tom Brady

SAMPLE LOCATION Well #3 E-mail yes

DATE COLLECTED 10/13/2015 **TIME COLLECTED** 11:30 AM **SAMPLER** Greg Mahar **Date Printed** 3/28/2016

Volatile Organic Chemical Analysis EPA Method 524.2 Table 9B **NYS Lab** 10350 **Date Analyzed** 10/26/2015

PARAMETER	CONCENTRATION UG/L	MCL	PARAMETER	CONCENTRATION UG/L	MCL
BENZENE	<0.5	5	2,2-DICHLOROPROPANE	<0.5	5
BROMOBENZENE	<0.5	5	1,1-DICHLOROPROPENE	<0.5	5
BROMOCHLOROMETHANE	<0.5	5	1,3-DICHLOROPROPENE (TOTAL)	<0.5	5
BROMOMETHANE	<0.5	5	ETHYLBENZENE	<0.5	5
N-BUTYLBENZENE	<0.5	5	HEXACHLOROBUTADIENE	<0.5	5
SEC-BUTYLBENZENE	<0.5	5	ISOPROPYLBENZENE	<0.5	5
TERT-BUTYLBENZENE	<0.5	5	P-ISOPROPYLTOLUENE	<0.5	5
CARBON TETRACHLORIDE	<0.5	5	METHYLENE CHLORIDE	<0.5	5
CHLOROBENZENE	<0.5	5	N-PROPYLBENZENE	<0.5	5
CHLOROETHANE	<0.5	5	STYRENE	<0.5	5
CHLOROMETHANE	<0.5	5	1,1,1,2-TETRACHLOROETHANE	<0.5	5
2-CHLOROTOLUENE	<0.5	5	1,1,2,2-TETRACHLOROETHANE	<0.5	5
4-CHLOROTOLUENE	<0.5	5	TETRACHLOROETHENE	<0.5	5
DIBROMOMETHANE	<0.5	5	TOLUENE	<0.5	5
1,2-DIBROMOETHANE	<0.5	5	1,2,3-TRICHLOROBENZENE	<0.5	5
1,2-DICHLOROBENZENE	<0.5	5	1,2,4-TRICHLOROBENZENE	<0.5	5
1,3-DICHLOROBENZENE	<0.5	5	1,1,1-TRICHLOROETHANE	<0.5	5
1,4-DICHLOROBENZENE	<0.5	5	1,1,2-TRICHLOROETHANE	<0.5	5
DICHLORDIFLUOROMETHANE	<0.5	5	TRICHLOROETHENE	<0.5	5
1,1-DICHLOROETHANE	<0.5	5	TRICHLOROFLUOROMETHANE	<0.5	5
1,2-DICHLOROETHANE	<0.5	5	1,2,3-TRICHLOROPROPANE	<0.5	5
1,1-DICHLOROETHENE	<0.5	5	1,2,4-TRIMETHYLBENZENE	<0.5	5
CIS-1,2-DICHLOROETHENE	<0.5	5	1,3,5-TRIMETHYLBENZENE	<0.5	5
TRANS-1,2-DICHLOROETHENE	<0.5	5	VINYL CHLORIDE	<0.5	2
1,2-DICHLOROPROPANE	<0.5	5	M-XYLENE	<0.5	5
1,3-DICHLOROPROPANE	<0.5	5	O-XYLENE	<0.5	5
Methyl Tert Butyl Ether	<0.5	10	P-XYLENE	<0.5	5

Notes The surrogate recoveries of 4-Bromofluorobenzene and 1,2-Dichlorobenzene-d4 for this sample were within acceptance limits at 94% and 89% respectively. The acceptance limits are 80-120%.
Temperature Outside Specifications.

The accompanying trip blank was found to be less than the required detection limit for POC/VOC
MCL = Maximum Contaminant Level referenced from New York State Subpart 5-1 of the Public Drinking Water Standards

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LABORATORY REPORT

Sample ID JH1506940 **Customer Code** 0703

Federal Water Supply Code NY0100205 **DOH** Alb Tom

Water Supply Town of Guilderland Water Department

Address State Farm Road , Guilderland , NY 12084

Sample Location NEIP @ Entry Point, Faucet

Date Collected 10/13/2015 **Time Collected** 8:25 AM

Sample Collector Greg Mahar

Date Printed 3/28/2016

Date Entered 11/2/2015

Part V Table 8D Inorganic Chemicals & Physical Characteristics

Table 8D SECONDARY INORGANIC STANDARDS	CONCENTRATION mg/L	Time analyzed	MCL	METHOD	Date analyzed	NYS Lab
Chloride	**103**		250.0	EPA 300.0	10/27/2015	11216
Iron	**<0.01**		0.3	EPA 200.7	10/19/2015	11549
Manganese	**0.0037**		0.3	EPA 200.7	10/19/2015	11549
Silver	**<0.001**			EPA 200.8	10/27/2015	11549
Sodium	**61**		see note	EPA 200.7	10/19/2015	11549
Sulfate	**20.0**		250.0	EPA 300.0	10/27/2015	11216
Zinc	**<0.0051**		5.0	EPA 200.7	10/19/2015	11549
Color (units)	**<5.00**		15 units	SM2120B	10/15/2015	11216
Odor	**<1.00**		3 units	SM2150B	10/15/2015	11216
pH*	**6.9**	18:00	6.5-8.5 units	SM4500-H B	10/15/2015	11216
Temperature, celsius	**12**					

Note: Water containing more than 20 mg/l sodium should not be used for drinking by people on severely restricted sodium diets.
Water containing more than 270 mg/l of sodium should not be used for drinking by people on moderately restristed sodiium diets.
*As of 4/1/12, pH is no longer a state certified analysis.

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LABORATORY REPORT

Sample ID JH1506940 **Customer Code** 0703
Federal Water Supply Code NY0100205 **DOH** Alb Tom
Water Supply Town of Guilderland Water Department
Address State Farm Road , Guilderland , NY 12084
Sample Location NEIP @ Entry Point, Faucet
Date Collected 10/13/2015 **Time Collected** 8:25 AM
Sample Collector Greg Mahar
Date Printed 3/28/2016
Date Entered 11/2/2015

Part V Table 8B Inorganic Chemicals & Physical Characteristics

Table 8B

ANALYTE	CONCENTRATION mg/L	MCL	METHOD	Date analyzed	NYS Lab
Arsenic	<0.001	0.01	EPA 200.8	10/27/2015	11549
Barium	0.024	2.00	EPA 200.8	10/27/2015	11549
Cadmium	<0.001	0.005	EPA 200.8	10/27/2015	11549
Chromium	<0.001	0.10	EPA 200.8	10/27/2015	11549
Mercury	<0.0002	0.002	EPA 245.1	10/20/2015	11549
Selenium	<0.0051	0.05	EPA 200.8	10/27/2015	11549
Fluoride	0.630	2.2	EPA 300.0	10/27/2015	11216

	mg/L	MCL	METHOD	Date analyzed	NYS Lab
Antimony	<0.00041	0.006	EPA 200.8	10/27/2015	11549
Beryllium	<0.00031	0.004	EPA 200.8	10/27/2015	11549
Nickel	<0.00051	0.1	EPA 200.8	10/27/2015	11549
Thallium	<0.00031	0.002	EPA 200.8	10/27/2015	11549
Cyanide	<0.0100	0.2	EPA 335.4	10/16/2015	11216

Table 8C	mg/L	set up time	MCL	METHOD	Date analyzed	NYS Lab
Nitrate°	<0.23	10:30	10 mg/l as N	Hach 10206	10/15/2015	11799
Nitrite	NT		1 mg/l as N	SM18-4500-NO2 B		

JH CONSULTING GROUP, INC
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SAMPLE ID# JH1506943 **SUPPLY CODE** 0703

PUBLIC WATER SUPPLY Town of Guilderland Water Department **FEDERAL ID#** NY0100205

ADDRESS State Farm Road Guilderland NY 12084 **DOH** Alb Tom Brady

SAMPLE LOCATION NEIP @ Entry Point, Faucet E-mail yes

DATE COLLECTED 10/13/2015 **TIME COLLECTED** 8:25 AM **SAMPLER** Greg Mahar **Date Printed** 3/28/2016

Volatile Organic Chemical Analysis EPA Method 524.2 Table 9B **NYS Lab** 10350 **Date Analyzed** 10/26/2015

PARAMETER	CONCENTRATION UG/L	MCL	PARAMETER	CONCENTRATION UG/L	MCL
BENZENE	<0.5	5	2,2-DICHLOROPROPANE	<0.5	5
BROMOBENZENE	<0.5	5	1,1-DICHLOROPROPENE	<0.5	5
BROMOCHLOROMETHANE	<0.5	5	1,3-DICHLOROPROPENE (TOTAL)	<0.5	5
BROMOMETHANE	<0.5	5	ETHYLBENZENE	<0.5	5
N-BUTYLBENZENE	<0.5	5	HEXACHLOROBUTADIENE	<0.5	5
SEC-BUTYLBENZENE	<0.5	5	ISOPROPYLBENZENE	<0.5	5
TERT-BUTYLBENZENE	<0.5	5	P-ISOPROPYLTOLUENE	<0.5	5
CARBON TETRACHLORIDE	<0.5	5	METHYLENE CHLORIDE	<0.5	5
CHLOROBENZENE	<0.5	5	N-PROPYLBENZENE	<0.5	5
CHLOROETHANE	<0.5	5	STYRENE	<0.5	5
CHLOROMETHANE	<0.5	5	1,1,1,2-TETRACHLOROETHANE	<0.5	5
2-CHLOROTOLUENE	<0.5	5	1,1,2,2-TETRACHLOROETHANE	<0.5	5
4-CHLOROTOLUENE	<0.5	5	TETRACHLOROETHENE	<0.5	5
DIBROMOMETHANE	<0.5	5	TOLUENE	<0.5	5
1,2-DIBROMOETHANE	<0.5	5	1,2,3-TRICHLOROBENZENE	<0.5	5
1,2-DICHLOROBENZENE	<0.5	5	1,2,4-TRICHLOROBENZENE	<0.5	5
1,3-DICHLOROBENZENE	<0.5	5	1,1,1-TRICHLOROETHANE	<0.5	5
1,4-DICHLOROBENZENE	<0.5	5	1,1,2-TRICHLOROETHANE	<0.5	5
DICHLORDIFLUOROMETHANE	<0.5	5	TRICHLOROETHENE	<0.5	5
1,1-DICHLOROETHANE	<0.5	5	TRICHLOROFLUOROMETHANE	<0.5	5
1,2-DICHLOROETHANE	<0.5	5	1,2,3-TRICHLOROPROPANE	<0.5	5
1,1-DICHLOROETHENE	<0.5	5	1,2,4-TRIMETHYLBENZENE	<0.5	5
CIS-1,2-DICHLOROETHENE	<0.5	5	1,3,5-TRIMETHYLBENZENE	<0.5	5
TRANS-1,2-DICHLOROETHENE	<0.5	5	VINYL CHLORIDE	<0.5	2
1,2-DICHLOROPROPANE	<0.5	5	M-XYLENE	<0.5	5
1,3-DICHLOROPROPANE	<0.5	5	O-XYLENE	<0.5	5
Methyl Tert Butyl Ether	<0.5	10	P-XYLENE	<0.5	5

Notes The surrogate recoveries of 4-Bromofluorobenzene and 1,2-Dichlorobenzene-d4 for this sample were within acceptance limits at 96% and 98% respectively. The acceptance limits are 80-120%.
Temperature Outside Specifications.

The accompanying trip blank was found to be less than the required detection limit for POC/VOC

MCL = Maximum Contaminant Level referenced from New York State Subpart 5-1 of the Public Drinking Water Standards

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FIRST DRAW COPPER MONITORING RESULTS

Date Printed 8/7/2014

SAMPLE ID	WATER SUPPLY	CUSTOMER NAME	ADDRESS	DATE COLLECTED	HOURS OF NON USE	COPPER	DATE ANALYZED
1404228	Town of Guilderland Water	DeCarlo	3223 Trauber Rd	6/26/2014	8	<0.02	7/2/14
1404012	Town of Guilderland Water	Maki	154 Benjamin St	6/20/2014	7.5	0.06	6/27/14
1404017	Town of Guilderland Water	Leadur	608 Tedesa Ct	6/20/2014	7	0.06	6/27/14
1404010	Town of Guilderland Water	Davis	1415 Rocco Dr	6/20/2014	6	0.07	6/27/14
1404229	Town of Guilderland Water	Carrillo	5070 Western Trnpk	6/27/2014	9	0.07	6/27/14
1404014	Town of Guilderland Water	Jurczynski	133 Benjamin St	6/20/2014	7.5	0.08	6/27/14
1404015	Town of Guilderland Water	Murphy	129 Benjamin St	6/19/2014	8	0.08	6/27/14
1404227	Town of Guilderland Water	Wryle	3057 New Willamsburg Dr	6/26/2014	9	0.08	7/2/14
1404016	Town of Guilderland Water	Dagostino	159 Benjamin St	6/20/2014	7	0.09	6/27/14
1404225	Town of Guilderland Water	Marshall	47 Willow St	6/27/2014	7	0.10	7/2/14
1404018	Town of Guilderland Water	Garling	3162 Lone Pine Rd	6/20/2014	7	0.11	6/27/14
1404021	Town of Guilderland Water	Bibbo	3162 Spawn Rd	6/20/2014	10.5	0.11	6/27/14
1404022	Town of Guilderland Water	VanWagenen	33 Willow Street	6/20/2014	7	0.11	6/27/14
1404224	Town of Guilderland Water	Roberts	25 McKown Rd	6/27/2014	9.5	0.11	7/2/14
1404009	Town of Guilderland Water	Lynch	1097 Serafini Dr	6/20/2014	9	0.12	6/27/14
1404026	Town of Guilderland Water	Rathburn	498 Rt 46	6/20/2014	9	0.12	6/27/14
1404027	Town of Guilderland Water	Wong	6 Paden Circle	6/20/2014	8	0.12	6/27/14
1404013	Town of Guilderland Water	Magenis	407 Liberty Ct	6/20/2014	7	0.13	6/27/14
1404024	Town of Guilderland Water	Sim	22 School Road	6/20/2014	7.5	0.13	6/27/14
1404226	Town of Guilderland Water	Mullen	5008 Western Trnpk	6/26/2014	9	0.14	7/2/14
1404029	Town of Guilderland Water	Fogarty	417 Green Hill Ct	6/20/2014	7	0.19	6/27/14
1404031	Town of Guilderland Water	Jarvis	45 Willow Street	6/20/2014	8.5	0.20	6/27/14
1404023	Town of Guilderland Water	Deichman III	47 McKown Rd	6/19/2014	8	0.22	6/27/14
1404028	Town of Guilderland Water	Mahoney	414 Green Hill Ct	6/19/2014	6	0.25	6/27/14
1404008	Town of Guilderland Water	Grosier	6086 Klink Rd	6/20/2014	9	0.26	6/27/14
1404025	Town of Guilderland Water	Pianowski	1772 Western Ave	6/20/2014	7	0.36	6/27/14
1404230	Town of Guilderland Water	Peters	3124 Lone Pine Rd	6/27/2014	7	0.45	6/27/14
1404011	Town of Guilderland Water	Crounse	124 Rt 146	6/20/2014	12	0.46	6/27/14
1404030	Town of Guilderland Water	Letko	5835 Johnstown Rd	6/20/2014		0.51	6/27/14
1404966	Town of Guilderland Water	Sebast	6919 State Rt 158	7/25/2014	8	1.17	8/4/14

Copper VALUES ARRANGED IN ASCENDING ORDER

90th PERCENTILE COPPER CONCENTRATION *(HIGHLIGHTED IN YELLOW)*

If value is (greater than) >1.3 mg/l the Action Level is Exceeded
If value is (less than or equal to) ≤1.3 mg/l you are in Compliance

values for lead and copper are in mg/L
Analysis performed for JH Consulting Group, Inc by NYS Lab 10350 , The above test procedures meet all the requirements of NELAC and relate only to these samples

JH CONSULTING, GROUP, INC
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NEWTONVILLE, NY 12128
(518) 785-9839

FIRST DRAW LEAD MONITORING RESULTS

Date Printed 8/7/2014

SAMPLE ID	WATER SUPPLY	CUSTOMER NAME	ADDRESS	DATE COLLECTED	HOURS OF NON USE	LEAD	Date Analyzed Lead
1404008	Town of Guilderland Water	Grosier	6086 Klink Rd	6/20/2014	9	<0.001	7/2/14
1404009	Town of Guilderland Water	Lynch	1097 Serafini Dr	6/20/2014	9	<0.001	7/2/14
1404013	Town of Guilderland Water	Magenis	407 Liberty Ct	6/20/2014	7	<0.001	7/2/14
1404016	Town of Guilderland Water	Dagostino	159 Benjamin St	6/20/2014	7	<0.001	7/2/14
1404017	Town of Guilderland Water	Leadur	608 Tedesa Ct	6/20/2014	7	<0.001	7/2/14
1404026	Town of Guilderland Water	Rathburn	498 Rt 46	6/20/2014	9	<0.001	7/2/14
1404027	Town of Guilderland Water	Wong	6 Paden Circle	6/20/2014	8	<0.001	7/2/14
1404030	Town of Guilderland Water	Letko	5835 Johnstown Rd	6/20/2014		<0.001	7/2/14
1404226	Town of Guilderland Water	Mullen	5008 Western Trnpk	6/26/2014	9	<0.001	7/14/14
1404227	Town of Guilderland Water	Wryle	3057 New Willamsburg Dr	6/26/2014	9	<0.001	7/14/14
1404228	Town of Guilderland Water	DeCarlo	3223 Trauber Rd	6/26/2014	8	<0.001	7/14/14
1404010	Town of Guilderland Water	Davis	1415 Rocco Dr	6/20/2014	6	0.001	7/2/14
1404025	Town of Guilderland Water	Planowski	1772 Western Ave	6/20/2014	7	0.001	7/2/14
1404011	Town of Guilderland Water	Crounse	124 Rt 146	6/20/2014	12	0.002	7/2/14
1404012	Town of Guilderland Water	Maki	154 Benjamin St	6/20/2014	7.5	0.002	7/2/14
1404014	Town of Guilderland Water	Jurczynski	133 Benjamin St	6/20/2014	7.5	0.002	7/2/14
1404015	Town of Guilderland Water	Murphy	129 Benjamin St	6/19/2014	8	0.002	7/2/14
1404018	Town of Guilderland Water	Garling	3162 Lone Pine Rd	6/20/2014	7	0.002	7/2/14
1404021	Town of Guilderland Water	Bibbo	3162 Spawn Rd	6/20/2014	10.5	0.002	7/2/14
1404022	Town of Guilderland Water	VanWagenen	33 Willow Street	6/20/2014	7	0.002	7/2/14
1404023	Town of Guilderland Water	Deichman III	47 McKown Rd	6/19/2014	8	0.002	7/2/14
1404029	Town of Guilderland Water	Fogarty	417 Green Hill Ct	6/20/2014	7	0.002	7/2/14
1404225	Town of Guilderland Water	Marshall	47 Willow St	6/27/2014	7	0.002	7/14/14
1404224	Town of Guilderland Water	Roberts	25 McKown Rd	6/27/2014	9.5	0.002	7/14/14
1404028	Town of Guilderland Water	Mahoney	414 Green Hill Ct	6/19/2014	6	0.004	7/2/14
1404031	Town of Guilderland Water	Jarvis	45 Willow Street	6/20/2014	8.5	0.004	7/2/14
1404229	Town of Guilderland Water	Carrillo	5070 Western Trnpk	6/27/2014	9	0.004	7/2/14
1404024	Town of Guilderland Water	Sim	22 School Road	6/20/2014	7.5	0.005	7/2/14
1404230	Town of Guilderland Water	Peters	3124 Lone Pine Rd	6/27/2014	7	0.006	7/2/14
1404966	Town of Guilderland Water	Sebast	6919 State Rt 158	7/25/2014	8	0.31	8/4/14

LEAD VALUES ARRANGED IN ASCENDING ORDER

90th PERCENTILE LEAD CONCENTRATION *(HIGHLIGHTED IN YELLOW)*

If value is (greater than) >0.015 mg/l the Action Level is Exceeded
If value is (less than or equal to) ≤0.015 mg/l you are in Compliance

values for lead and copper are in mg/L
Analysis performed for JH Consulting Group, Inc by NYS Lab 10350 , The above test procedures meet all the requirements of NELAC and relate only to these samples