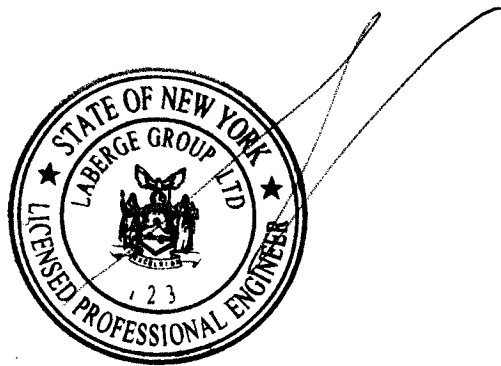


VILLAGE OF GREENE
CHENANGO COUNTY, NEW YORK
WATER SYSTEM IMPROVEMENTS
PRELIMINARY ENGINEERING REPORT

September 2021
Revised April 2022



OWNERSHIP OF DOCUMENTS

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PRELIMINARY ENVIRONMENTAL REPORT
April 2022

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I. INTRODUCTION

The Village of Greene is situated in the southwest area of Chenango County, New York. A General Location Map is included in Appendix A.

The Village of Greene provides water service to all properties within the Village, as well as three (3) Town of Greene water districts and two outside Village areas in the Town that are not incorporated into a water district. In order to maintain the service provided by the water system, improvements are required to correct current deficiencies and continue reliable service in the future. The Village has authorized Laberge Group to prepare this engineering report to identify the deficiencies in the water system and the requisite improvements that are required to rectify same.

II. PROJECT BACKGROUND AND HISTORY

Site Information

A. Location

The improvements contemplated herein are spread throughout the Village of Greene. The locations of these individual improvements are presented on the map entitled “Proposed System Improvements” contained in Appendix A. Town Water Districts Nos. 2 and 3 are located on the east side of the Village. Water District No. 1 is located on the south side of the Village along South Chenango Street Extension. The unincorporated areas are located north of the Village and consists primarily of properties along Route 12 and North Chenango Street.

B. Geologic Conditions

Generally, the topography is from west to east on the west side of Chenango Street and east to west on the east side of Chenango Street. Elevations range from approximately 1,120 feet at the south east corner of the Village to approximately 900 feet along the Chenango River.

Based upon the NRCS Soil Report for the Village of Greene (Appendix B), about 38.5% of the Village is Chenango gravelly silt loam which has a depth to groundwater greater than 6.5 feet. The groundwater depth is slightly shallower along the river, with depths ranging between 6 to 72 inches.

Geology in the Village is primarily silt loam and is comprised of various soil associations including, but not limited to, Chenango gravelly silt loam, Lordstown channery silt loam, Teel silt loam, and Hamlin silt loam.

C. Surface Water Features

The Chenango River, a Class B waterway, runs through the Village. Birdsall Brook, a Class C waterway runs through the northern part of the Village. An unnamed tributary to the Chenango River, a Class C waterway, also runs through the Village.

D. Environmental Resources

- **Threatened and Endangered Species**

The Village is in the vicinity of rare animals listed as threatened or endangered by NYSDEC. These rare animals include the following:

- Bald Eagles
- Black-capped Chickadee
- Bobolink
- Wood Thrush
- Yellow-bellied Sapsucker
- Mussels

The improvements contemplated herein are not expected to have an impact upon the species identified above. The improvements are all located within Village rights of way and properties that do not support habitat identified species

The NYSDEC Environmental Mapper and U.S. Fish and Wildlife Information for Planning and Consultation information for the location is contained in Appendix C.

E. Floodplain Considerations

The Village is partially within the floodplain of the Chenango River. The floodplain generally parallels the river and extends to South Chenango Street on the west side of the river and Water Street/Cherry Street on the east. The floodplain widens at the northern boundary of the Village toward Birdsall Brook and the Village's water supply well locations. The FEMA National Flood Hazard Layer Map for the area is contained in Appendix D.

Although a portion of the project lies within the floodplain, all the work in the floodplain area will be comprised of subsurface watermain installation and therefore no impact will occur. This includes the replacement of the watermain that currently cross beneath the river.

III. OWNERSHIP AND SERVICE AREA

A. Ownership

All existing and proposed water system improvements within the Village of Greene are or will be owned by the Village of Greene.

B. Water System Management

The Village water system and Town Water Districts are managed by the Village of Greene Water Department. The working supervisors of Public Works are Bruce Kinney and Steven Ingraham.

C. Service Area

The service area includes the Village of Greene, three Town water districts within the Town of Greene and two areas north of the Village that are not contained in a water district. The service area boundary is presented on the map entitled “Existing Water Supply System” included in Appendix A. There are intermunicipal agreements in place for the water districts that are served by the Village. These agreements are included in Appendix H.

D. Outside Users

There are three (3) Town of Greene water districts and two outside Village area in the Town that are not included in a water district. There is a total of approximately 131 users outside of the Village.

E. Agricultural and Industrial Land Use Activities

While some agricultural use exists within the confines of the Village, it is a very small amount. Disturbance of agricultural land is not proposed as part of this project.

There are eleven (11) industrial users within the Village, including Bloom Owl, Skid Rite, Raymond Corporation, Greene Technologies, K&S Optics, Inc., Greene Brass & Aluminum Foundry, Page Seed Co., Sunrise Family Farms, and Najarian Inc.

F. Population Trends and Growth

The Village of Greene had a population of 1,580 as of the 2010 Census and 1,566 in 2019 per the US Census Bureau. The Village’s population has remained steady with less than one (1) percent reduction over the past ten (10) years.

G. Historical and Projected Water Use

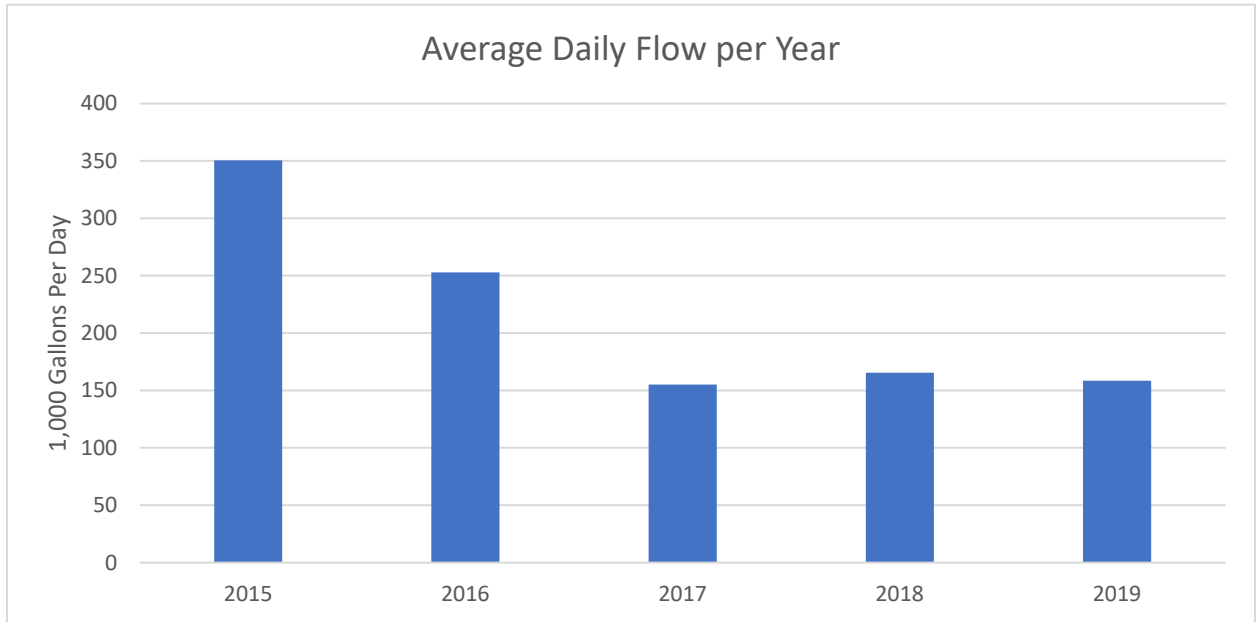
Historical water use was determined from the 2017-2019 Monthly Water Usage Reporting Forms for the Village. The Reporting Forms are included in Appendix E.

Table 1 and Figure 1 present the average daily and annual water use rates for years 2017-2019. It is noted that water use has been decreasing. This is likely due to some improvements the Village has made to reduce leaks in the system. For design purposes the projected future water use is expected to continue to be approximately 165,000 gpd.

Table 1

Year	Average Water Use (gpd)	Annual Water Use (gpy)
2015	350,409	127,899,313
2016	252,877	92,300,046
2017	155,145	56,627,994
2018	165,384	60,365,214
2019	158,521	57,860,121

Figure 1



H. Adjacent or Nearest Public Water Supply Systems

The City of Binghamton is the closest water supply system to the Village. The City's Water Treatment Plant site is approximately 20 miles from the Village. The City utilizes surface water from the Susquehanna River.

IV. EXISTING FACILITIES

The Village of Greene water supply system is comprised of the following components:

A. Distribution System

The Village distribution system watermain range in size from 4 to 12-inches in diameter, with varying age and condition. Approximately 40,200 feet of the 51,000 feet of main within the Village are original cast iron pipe (CIP) and are over 100 years old. These older mains are generally 4 and 6-inch diameter. Ductile iron pipe (DIP) watermain were more recently installed on South Canal Street and South Chenango Street in the vicinity of the High School. There is also ductile iron pipe on Grace Drive. The DIP was installed in the late 1970s through the mid-1980s. The map entitled “Existing Water Supply System” in Appendix A identifies the location, size, and material of the watermain throughout the Village.

Watermain outside the Village boundary in Water Districts 1, 2 and 3 are asbestos cement. Material of the watermain in the unincorporated area is unknown but is assumed to be CIP.

Service laterals from the watermain to the curb stop in the Village are copper, however some customers have lead or galvanized service laterals from the curb stop to the structure.

The ductile iron pipe installed in Grace Drive is of concern to the system operator. Although not directly related to the condition of the pipe, there have been instances where the bolts holding down valve bonnet have corroded to the point of failure. This is indicative of a corrosive soil environment. The watermain in this area is not wrapped, leaving it vulnerable to further impact.

There are two river crossing in the Village. One crossing is located just north of the Genesee Street Bridge and is an 8-inch ductile iron pipe installed around 1980. The other is located between Elm Street and Well No. 2 and is a cast iron pipe installed in 1908.

There are also two crossings of Birdsall Brook and the main is exposed at two locations; one location being where it intersects North Canal Street and the other location being where it intersects North Chenango Street Extension.

Based upon a general review of the location of sanitary sewers, storm sewers (which are generally comprised of the preexisting combined sewers before they were separated), and watermain, it does not appear that the required 10 feet of separation is provided in many areas. As an extreme example, the photo depicts a watermain passing through a sewer manhole.



B. Meters

Other than the meters measuring water production, the Village has three master meters, two of which are located near Juliand Street and meter flow to Town Water Districts 2 and 3. The third is located on South Chenango Street Extension and meters flow to Water District 1.

In addition to the master meters, there are approximately 1,800 individual water service meters within the Village. The meters are Sensus brand.

The individual water service meters in Districts 2 and 3 outside of the Village are approximately 30-50 years old and should be replaced as well.

The trailer park community on Park Street in the northwest corner of the Village is not provided with water meters.

C. Hydrants

The original hydrants in the water system connect to the 4 and 6-inch cast iron watermains. Over the years the Village has replaced several of the 4-inch hydrant leaders with six inch but many of these connections remain. According to Recommended State Standards for Water Works, the minimum size watermain which provides for fire protection and serving hydrants shall be 6-inch diameter. Generally, fire hydrant spacing ranges from 350 to 600 feet depending on the area being served.

Hydrant flow data was provided by the Village. The data provided flow rate, test duration, static and residual pressures. The flow rates ranged from 5 gpm and 1,325 gpm depending on location. The flow data is included in Appendix G. Actual available fire flow rates could not be determined from the data since velocity pressure was not provided, however the data is sufficient to determine that the higher elevations in the system are incapable of proving fire flow.

D. Water Storage Tanks

The water system includes two potable water storage tanks.

Tank 1 is located on Meadowbrook Lane. It is an above ground, 57-foot diameter structure of welded steel construction with a height of 31 feet and storage capacity of 600,000 gallons. The tank was constructed in 1970. The base elevation at the water storage tank is 1,066 feet. Water level in the tank is monitored by a level transmitter installed with a post mounted control panel. Once the water level falls to a specified depth the transmitter sends a signal to actuate the well pumps until the water reaches the designated high-water level at which point the pumps are signaled to turn off. The tank does not have a mixer. Also, high chlorine residual levels in the tank have been noted at times by the system operator.

Tank 2 is located southeast from the end of Betty Road, just outside the northern boundary of the Village. Tank 2 is a 100-year-old, above ground, 70-foot diameter structure of brick construction and storage capacity of 330,000 gallons. Tank 2 does not have a level transmitter or mixer. Tank level is controlled by the transducer in Tank 1. Both tanks have the same high-water level and therefore when Tank 1 is full, so is Tank 2.

As currently operated, Tank 1 calls for pump actuation at elevation 1,092 which is 5 feet below the tank's high water level and represents a volume of approximately 240,000 gallons.

E. Water Supply and Treatment

The Village water supply consists of three water wells each fitted with a vertical turbine pump. The wells are located on the northern end of Cherry Street on the eastern side near the Chenango River. Well No. 1 is located in the Electric Department building. Well No. 2 is located farthest north on Cherry Street closest to the Sunrise Family Farm Building. Well No. 3 is located farthest south on Cherry Street near the Page Seed Company. A map of the well locations is included in Appendix A. The general characteristics of each well are as follows:

- Well No. 1 has a 40 H.P. motor and pumps 450 gpm. It is 159-feet deep with an 8-inch casing.
- Well No. 2 has a 20 H.P. motor and pumps 140 gpm. It is 175-feet deep with an 8-inch casing.
- Well No. 3 pump has a 60 H.P. motor and pumps 500 gpm. It is 110-feet deep with a 10-inch casing. Recovery recording equipment has been installed in Well No. 3 to monitor aquifer level and its effect on the Susquehanna River Basin. Well No. 3 occasionally draws sand while pumping.

Emergency backup power is not available at any of the well sites and therefore, when the power fails only stored water is available to the community.

Treatment of the water consist of disinfection via chlorine gas injection before entering the distribution system. Each well site has its own chlorination building and apparatus. It was noted during a review of the sites that the exhaust fans in the chlorination rooms do not activate. This was reported to be a winter condition only since the exhausting systems allow too much cold air to enter the building when not operating resulting in freezing of the water piping within the space. The exhaust fans are located near floor level. The exhaust system is in operation during warmer weather. Outdoor alarms are installed to warn of potentially high concentrations of chlorine gas inside the buildings. It was reported that some water operators for the Village have expressed concern over the continued use of chlorine gas for disinfection.

Due to the configuration of the wells, the required 30 minutes of chlorine contact time prior to the first user is not achieved. The closet user is the Page Seed Company: it is approximately 200 feet from Well No. 3. The chlorine contact time is less than one minute. There is no separate contact chamber other than the available pipe volume from the point of intersection to the first customer. The chlorination systems do not include a static mixer to better mix the chlorine with the water to be treated.

When examining the annual water use, the average daily demand based upon the last three years is 165,000 gallons or 115 gpm. Taking into a peaking factor of four (4) the maximum use is 460 gpm. Both Wells No. 1 and 3 can meet this demand on their own and should not have to operate simultaneously except under extraordinary conditions such as excessive fire flow or major water main breaks. As a result, Well Nos. 1 and 2 are redundant for each other and in the event of a well failure the other is capable of supplying the system until the failed well is repaired. In addition, while only capable of 140 gpm, Well No. 2 provides additional back up supply.

F. Service Pressure

Service pressures throughout the Village generally range from 31 psi to 86 psi. Customers along County Road 32/Juliand Street and NYS Route 206 and Town Water Districts 2 and 3 experience the lowest system pressure. Based upon elevation data obtained in the field, the ground elevation in Town Water District No. 2 and the high-water level in the water tanks, it is estimated the maximum static pressure in the upper most areas of the Town Districts Nos. 1 and 2 is approximately 25 psi. Within the Village, the maximum static pressure is 86 psi. The storage tank's water level drops by 5 feet before calling for water so the typical minimum static pressures will be 23 psi and 84 psi respectively. The water pressure experienced by the homes in the low-pressure areas will be less than stated since the above pressures are at the ground surface at the water main. A decrease of 5 to 6 pounds can be expected due to elevation of the building above grade building and head losses through the service laterals and fixtures. Fire protection is not provided by the water system in these areas.

Customers in Town Water District No. 1 also experience low pressure at higher elevations. The maximum static pressure at the high point is approximately 42 psi and the corresponding typical

minimum static pressure is 40 psi. The map entitled "Existing Water Supply System" contained in Appendix A identifies the low pressure areas in the Village and Town.

G. Operation and Maintenance Costs

The Village annual water system budget for the 2021 fiscal year is \$248,917. A copy of the budget is included in Appendix F. A summary of the expenses contained in the budget is as follows:

Personnel	\$ 52,304
Benefits	\$ 13,500
Admin Expense	\$ 44,352
Equipment/Repairs	\$ 84,961
Utilities	\$ 11,600
Contractual Expense	\$ 100
Insurance	\$ 38,100
Contingency	\$ 4,000
Reserves	\$ 0

The water system does not have any debt and therefore no debt service payments.

H. User Costs

Village water customers are charged for water on a metered basis. Bills are issued monthly. The current water rates are as follows:

Inside Village Customers:

Meter Charge	\$3.50 per month
Minimum Usage	\$8.20
Per Thousand	\$3.00 from 3,001 to 10,000 gallons
	\$3.10 from 10,001 to 20,000 gallons
	\$3.20 over 20,000 gallons

Outside Village Rates

Meter Charge	\$3.50 per month
Minimum Usage	\$9.80
Per Thousand	\$3.75 from 3,001 to 10,000 gallons
	\$3.85 from 10,001 to 20,000 gallons
	\$3.95 over 20,000 gallons

Water Districts

Meter Charge	\$3.50 per month
Minimum Usage	\$9.80
Per Thousand	\$3.75 from 3,001 to 10,000 gallons
	\$3.85 from 10,001 to 20,000 gallons
	\$3.95 over 20,000 gallons

Non-Metered Inside Village	\$18.10
Non-Metered Outside Village	\$26.00
Multiple Unit Surcharge	\$1.50 per unit

Sprinkler Charge	\$10.00 per unit
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Contractor Rate	\$4.10 per thousand gallons
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Based upon the annual water use of 60,000,000 gpy, the average user uses approximately 32,0000 gallons per year. Based on the above rates, the annual cost to an average Village user is estimated to be \$141

V. PROPOSED IMPROVEMENTS

At this time only Phase I of the distribution system improvements is to be implemented due to funding limitations. However, all proposed improvements are presented within this section.

A. Water Supply and Treatment

The following improvements are recommended to the water supply and treatment facilities:

i. Well No. 3 Inspection

Retain the services of a qualified hydro-geologist to inspect Well No. 3 for the purpose of recommending improvements to eliminate sand being drawn into the well. These improvements may take the form of repacking the well, modifying the screen sizes or a combination thereof. The timing of the work is important since it will require the well to be out of service during the inspection.

ii. Emergency Back-up Generators

Installation of an emergency backup generator for the water supply is highly recommended. At a minimum, a generator should be provided for either Well No. 1 (40 HP, 450 gpm) or Well No. 3 (60 HP, 500 gpm) since they are the highest producing wells. Ideally both wells should be provided with a generator. The generators can either be propane or diesel fueled. Initial generator sizing for Well No. 1 is a 40 kw generator and 50 kw for Well No. 3. Automatic transfer switches will be required at each generator location. Due to flood plain considerations the easiest installation will be for Well No. 3 as it is located above the floodplain elevation. Well Nos. 1 and 2 are located within the floodplain and any generator installation will need to be raised above the existing grade approximately 5 feet.

iii. Pump Operation Control

The pumps are controlled by the water level in the water storage tank. When water is called for all three pumps are activated. The system operator does selectively rotate the pumps by deactivating one for a while before placing it back on line and deactivating another pump. It is recommended that this system be replaced with an automated control system that activates and deactivates the pumps according to demand. It is recommended that when the water tank calls for water that a “lead” pump activate. If the water level in the tank rises the lead pump will operate until the tank is full. If the water level continues to fall then a “lag” pump will activate. Both pumps will then operate until the water level in the tank reaches the desired level. The lead and lag pumps will alternate each time the system calls for water. The control system can be located in one of the two existing chlorination buildings being used by the system assuming that the chlorination improvements described below are implemented.

It is also recommended that the pumps be activated when the tank level drops 2 feet below high water rather than 5 as presently operated. The average day use is approximately 165,000 gpd and the current setting at 5 feet requires a

volume of 240,000 gallons. By reducing the tank level drop prior to pump actuation, the tank will not sit for so long without addition of fresh water.

iv. Chlorination

1. Contact Time

To provide the required 30 minutes of chlorine contact time prior to the first customer it is recommended that the wells be piped to a single location for chlorine injection and then continue into a chlorine contact chamber sized to provide adequate contact time. The size of the chlorine contact chamber is directly related to the pumping rate of the wells. As identified above, Wells 1 and 3 are each capable of keeping pace with demand. As such the chlorine contact chamber will be sized to a rate of 500 gallons per minute requiring a volume of 15,000 gallons. This volume can be obtained through the use of approximately 290 linear feet of 32-inch diameter pipe. No modifications to the well pumps will be required as the operating head for the modified system will only increase slightly. The schematic plan entitled “Chlorination Improvements” in Appendix A presents the existing and propose chlorination arrangements

2. Chlorination Product

It is recommended that the chlorine used for disinfection be sodium hypochlorite in place of the existing gas systems. A single chlorination station is proposed to be located within the Well 3 building. Conversion to hypochlorite eliminates the dangers associated with gas chlorination and will eliminate the need for the exhaust systems that are disconnected during the winter months.

Based upon an initial application of 1 ppm and an average daily flow of 165,000 gallons, approximately 1.5 gallons of sodium hypochlorite (12.5% by weight) will be required per day which equates to 45 gallons per month. It is recommended that the chemical be purchased in 55-gallon drums and that a two (2) month supply be on hand which is two (2) barrels.

A plan entitled “Chlorine Building Concept” is provided in Appendix A and presents the proposed layout in the existing Well 3 building. The chlorination equipment required includes:

- Metering pumps –Two required for redundancy
- Backflow and anti-siphon valves
- Injection port
- Static mixer
- Chlorine Analyzer
- Electronic Flow meter
- System Controls
- Chemical containment system.

The chlorine analyzer and updated metering equipment will allow the system to adjust automatically to a change in the flow rate. The analyzer does require a drain and a sewer connection will be required to dispose of the discharge.

B. Distribution System

The distribution system suffers from several issues. Due to the age of the CIP it is expected it is suffering from corrosion and tuberculation reducing the effective diameter of the piping. The water lines also lack adequate separation between sanitary and storm sewers. Much of the original CIP is 4- and 6-inch diameter. Pipe diameter of this size reduces effective fire protection. To eliminate these issues, it is recommended that the remaining cast-iron pipe be replaced with either ductile iron or PVC pipe. The map entitled “General Plan-Distribution System” provides the recommended layout of the new mains, valves, and hydrants. It is recommended the improvements be completed in phases due to funding limitations. It is recommended Phase I be completed at this time.

Phase I improvements were selected based upon the condition of the main and importance to the overall system. Phase I improvements include:

- Genesee Street (Monell Street to Route 12);
- South Canal Street (Page Street to Genesee Street);
- Willard Street;
- Franklin Street;
- Matteson Street;
- Foundry Street;
- South Chenango Street;
- All (3) Birdsall Brook crossings;
- Northern Chenango River crossing;
- Birdsall Street (to the existing water storage tank);
- Jackson Street;
- Locust Street;
- Lucas Street;
- Davidson Street;
- North Canal Street;
- Scott Avenue;
- Elm Street; and
- North Chenango Street.

The minimum recommended water main size with hydrants is 8-inches. Hydrant spacing is a maximum of 600 feet and valves are proposed at all intersections. Mainline valves are to be provided on runs that exceed 1,500 feet.

As part of the distribution system improvements, it is recommended that the CIP river crossings be replaced with an 8-inch ID HDPE main. The river crossing located near the Washington Street Bridge was replaced with DIP and is in good condition. In order to avoid impacts to the Chenango River and its banks, this main will have to be installed using directional drilling techniques. The HDPE main will not be subject to the corrosive nature of the location and will have electro welded joints essentially making the line a single piece of pipes with no joints to leak.

C. Meters

The following meter improvements are recommended:

- i. Replacement of existing water meters to upgraded radio remote read meters. This will allow the Village to read the meters within hours and collect water usage data.
- ii. Installation of water meters in the manufactured homes on Park Street Extension.
- iii. Consideration of eliminating one of the two master meters now metering flow to Water Districts 2 and 3.

D. Water Storage Tanks

The following storage tank improvements are recommended:

- i. Installation of mixers inside Tank 1 and Tank 2. Mixers perform two functions; the first is to keep water from stratifying and therefore potentially becoming stale with a decrease in chlorine residuals below acceptable levels. The second is to provide freeze protection by keeping the water moving throughout the tank.
- ii. Installation of a level transmitter in Tank 2 so that in the event Tank 1 must be taken off line, or the transmitter should fail, the water level in the tanks can still be used for well pump operation.
- iii. Performance of minor grading around Tank 1 to provide positive drainage, particularly along the back side of the tank.

E. Service Pressure Improvements

The low-pressure issue on Juliand Street and NYS Route 206 in the Village has two possible solutions. Due to the interconnection with the Town Water District 1 and 3 in that area, the improvements proposed will also benefit those districts as well as the Greene Intermediate School buildings.

- i. **Alternative 1 - Booster Pumping Station**
Installation of an in-line booster pumping system can increase normal operating system pressures in the affected area by maintaining a constant discharge pressure at the pump. This type of system uses variable speed pumps fitted with variable speed drives that can adjust to the demand on the

system. The master meter readings to Water Districts 2 and 3 indicate that the average daily use in that area is 12,600 gpd or 9 gpm. Since there is no storage available, the pump must be capable of meeting peak system demands. Initial pump sizing for this pump station is 100 gpm.

The booster pumping system can be designed to provide water for domestic use only or to also be able to provide fire flow by the addition of a high flow pump. The watermains in the area are only 4 inches in diameter and as such are not capable of providing fire flow unless they are replaced with 8-inch mains. The distribution system improvements identified earlier herein include the replacement of the mains on Juliand Street and NYS Route 203 within the Village only.

The pump station should be located at approximately elevation 954 to avoid increasing service pressures above 80 psi while maintaining a working pressure of approximately 60 psi in the current low-pressure areas. Isolation valves should be installed at the east ends of Green Street and Washington Street to direct flow from the booster station to the low-pressure area. The map entitled “Proposed Booster Station – Alt 1” contained in Appendix A identifies the areas that the station could be installed.

- ii. **Alternative 2 - Booster Pumping Station and Water Storage Tank**
Installation of a booster pumping station in combination with a water storage tank located at a suitable elevation will address the low-pressure issues in the upper service area in the Village as well as the Town Water Districts. The highest elevation in the Town districts is 1,040 feet. The minimum water elevation required to provide a minimum of 60 psi is 1,178.

Tank volume requirements are based upon one day average water use plus fire flow. Based upon the meter readings to the town districts and the number of homes in the Village that will be served by the tank, the average day use for the area is 12,600 gallons. Fire flow volume is based upon the ISO Guide for Determination of Needed Fire Flow. The area to be served is generally residential in nature with homes separated by 20 feet or more. There are also institutional structures including the school and church. For design purposes, the residential needed fire flow requirement in this area is 750 gpm for two (2) hours and will be the basis of design. Total tank capacity will therefore be:

Average Day Use	12,600 gallons
<u>Needed Fire Flow</u>	<u>90,000 gallons</u>
Storage Volume Req'd.	102,600 gallons

A simple booster pump station can be used to fill the tank. Operation of the booster pump system will be similar to what is now being used for the existing water storage tank. A water level transducer will indicate tank level

and pump on/pump off operation. The recommended pump station capacity for use with a storage tank is 100 gpm.

A transmission main will be required to deliver water to the storage tank. An 8-inch main will be suitable for this application. Isolation valves on Green Street and Washington Street are also proposed for this alternative.

The map entitled “Proposed Booster Station – Alt 2” contained in Appendix A identifies the areas that the station and tank could be installed.

VI. PERMITTING REQUIREMENTS

Water improvements throughout the Village will require various permits and/or approvals from the following agencies prior to construction:

- New York State Department of Health (NYSDOH)
 - Approval of Plans
- New York State Department of Environmental Conservation (NYSDEC)
 - Stream Disturbance Permit for Chenango River work
- New York State Department of Transportation (NYSDOT)
 - Highway Work Permit for work in NYS Route 12, NYS Route 41, and NYS Route 206
- New York State Department of Agriculture & Markets
 - Approval for work within an agricultural district

VII. LAND REQUIREMENTS

With the exception of the pump station and water storage tank to serve the low-pressure areas on Juliard Street and NYS Route 206, the proposed improvements are contained within public rights of way or existing Village utility easements.

Land acquisition will be required for a booster pump station and storage tank if the storage tank alternative is selected. The pump station will require a small parcel of roughly 50 feet x 50 feet. Access and utility easement will be required depending upon the final location selected.

The tank site is estimated to be approximately 100 feet x 100 feet and will also require access easements and utility easements for the transmission main.

VIII. ENVIRONMENTAL IMPACT AND MITIGATION MEASURES

Based upon the NYSDEC Environmental Mapper, Bald Eagles, Black-capped Chickadee, Bobolink, Wood Thrush, and Yellow-bellied Sapsucker are located throughout the Village of Greene and are listed as threatened or endangered by NYSDEC.

Impacts to the threatened/endangered species and to the agricultural district are not anticipated. Watermain improvements will be located within the Village and highway rights of way. Improvements to the storage tanks and wells will be in previously disturbed areas.

IX. ENERGY EFFICIENCY MEASURES

- All new pumps required will be high efficiency pumps coupled with VFDs.
- All lighting will utilize LED's.

X. PRELIMINARY OPINION OF COST

The preliminary opinion of construction cost for the various proposed improvements are as follows:

Distribution System Improvements	\$ 13,063,000
Chlorination Improvements	\$ 220,500
Pump Station Alternative No. 1	\$ 470,000
Pump Station and Tank Alternative No. 2	\$ 825,000

The overall preliminary opinion of cost for the overall project, which incorporates the Pump Station and Tank Alternative No. 2 including engineering, legal, surveying, permitting, environmental review, land acquisition, geotechnical investigations, and contingency totals \$19,970,000. It is noted that the project is carrying a contingency of 30 percent due to the current volatility in the construction market and high inflation rates.

A detailed breakdown of the costs included in the above is include in Appendix L.

XI. FINANCING

The actual method of financing the project has not yet been established. Based upon the Village's income it is eligible for various grant and loan assistance. The Village has multiple options through grants and loans to help defray the cost of the proposed improvements to the ratepayers.

Grant funding is available through the NYS Water Grant program. For water projects, the maximum grant available under the program is 60% of the program cost up to a maximum of \$3,000,000. In addition, the Village is eligible to apply for a Drinking Water Revolving Loan, Water & Waste Disposal Loan/Grant, or Community Development Block Grant for public infrastructure.

In order to proceed with a grant or loan through the New York Water Program and/or CDBG, the Village will need to undertake and complete the following:

- Complete an application form for listing the project(s) on the annual DWSRF Intended Use Plan;
- Complete a preliminary engineering report;
- Complete SEQRA requirements including clearance from the New York State Office of Historic Preservation (SHPO);
- Submit the EFC Smart Growth Assessment Forms; and
- Develop a project budget and either pass a bond of resolution or include an approved EFC loan approval.

Water rates in the Village must be adjusted as the current rates are well below the level necessary to prove "need" for a Community Development Block Grant.

The financing options considered include the following:

- No funding assistance
 - 20 Year Loan at 4%, or
 - 30 Year Loan at 4%
- Community Development Block Grant of \$1,000,000 combined with either a
 - 20 Year Loan at 4%, or
 - 30 Year Loan at 4%
- NYS Water Grant combined with either a
 - 20 Year Loan at 4%, or
 - 30 Year Loan at 4%, or
 - 30 Year Loan at 0%
- NYS Water Grant and Community Development Block Grant of \$1,250,000 combined with NY Water Grant and either a 20 or 30 Year Loan at 0%

The table in Appendix L presents the scenarios identified above for Phase I improvements.

XII. EQUIVALENT DWELLING UNITS (EDUs)

In order to allocate debt service costs on an equitable basis the EDU method of cost assignment is proposed. The Village currently uses this method for billing of sewer use and has established the EDUs for each Village property. Based upon the information provided, the Village has a total of 907.5 EDUs. One (1) EDU represents a single-family home.

Since there are users outside the Village boundary we have estimated the EDUs applicable to each of the three (3) Town Water districts and the area outside the Village that is not incorporated into a water district.

Water District No. 1

39 Residential Units	= 39 EDUs
7 Commercial Properties	= 7 EDUs
1 Restaurant	= 2 EDUs

Water District No. 2

18 Residential Units	= 18 EDUs
School (200+/- Students)	= 10 EDUs
Bus Garage	= 1 EDU

Water District No. 3

41 Residential Units	= 41 EDUs
Church	= 1 EDU

Unincorporated Area

11 Residential Units	= 21 EDUs
<u>1 Commercial</u>	<u>= 1 EDU</u>
Total Outside Village	= 141 EDU's

Total system wide EDUs = 907.5 + 141 = 1,048.5

XIII. TYPICAL USER COSTS

The additional annual cost per user for the recommend project is the total of each user's portion of debt service, and operation and maintenance.

The following assumptions are made for the purpose of this analysis:

- Outside Village users pay a rate of 125 percent of the in-Village rate.
- The current operation and maintenance budget of \$249,000 has been used with the following modifications
 - adjustment for inflation
 - additional energy (\$20,000) use associated with the additional pump station should it be constructed.
 - Reserve Contribution of \$20,000
- All costs are spread evenly across the 1,800 water customers in the Village.

Debt Service

Depending upon how the improvements are funded, the annual debt service can range from as low as \$524,000, assuming the Village receives both NY Water and Community Development Block Grant assistance and a zero percent 30-year EFC loan, to a high of \$1,451,000 assuming no grant or loan assistance is provided. This translates to an annual cost per EDU of \$500 to \$1,384 in addition to the current charges being assessed by the Village.

Operation and Maintenance

The first-year operation and maintenance cost of the system is estimated to be \$320,000. This equates to approximately \$166 per EDU.

Typical User Cost

The typical user cost for the Village will range from a low of \$666 to \$1,550 dependent upon the project funding.

XIV. RECOMMENDATIONS

The following are recommended next steps for the Village to consider if the improvements contemplated herein are to be pursued by the Village:

1. Update the Environmental Facilities Corporation Intended Use Plan listing to allow the potential for an EFC loan to pay for any portion of the project not funded through direct grants.
2. Prepare an application for financing through EFC financing.
3. Reapply to the NY Water grant program when the application period opens.
4. Make application to the CDBG program in the 2023 Consolidated Application when available.
5. To be in a better position to receive grant funding, it is recommended that the project design be commenced to demonstrate the readiness of the Village in progressing the project as quickly as possible once funds are awarded.

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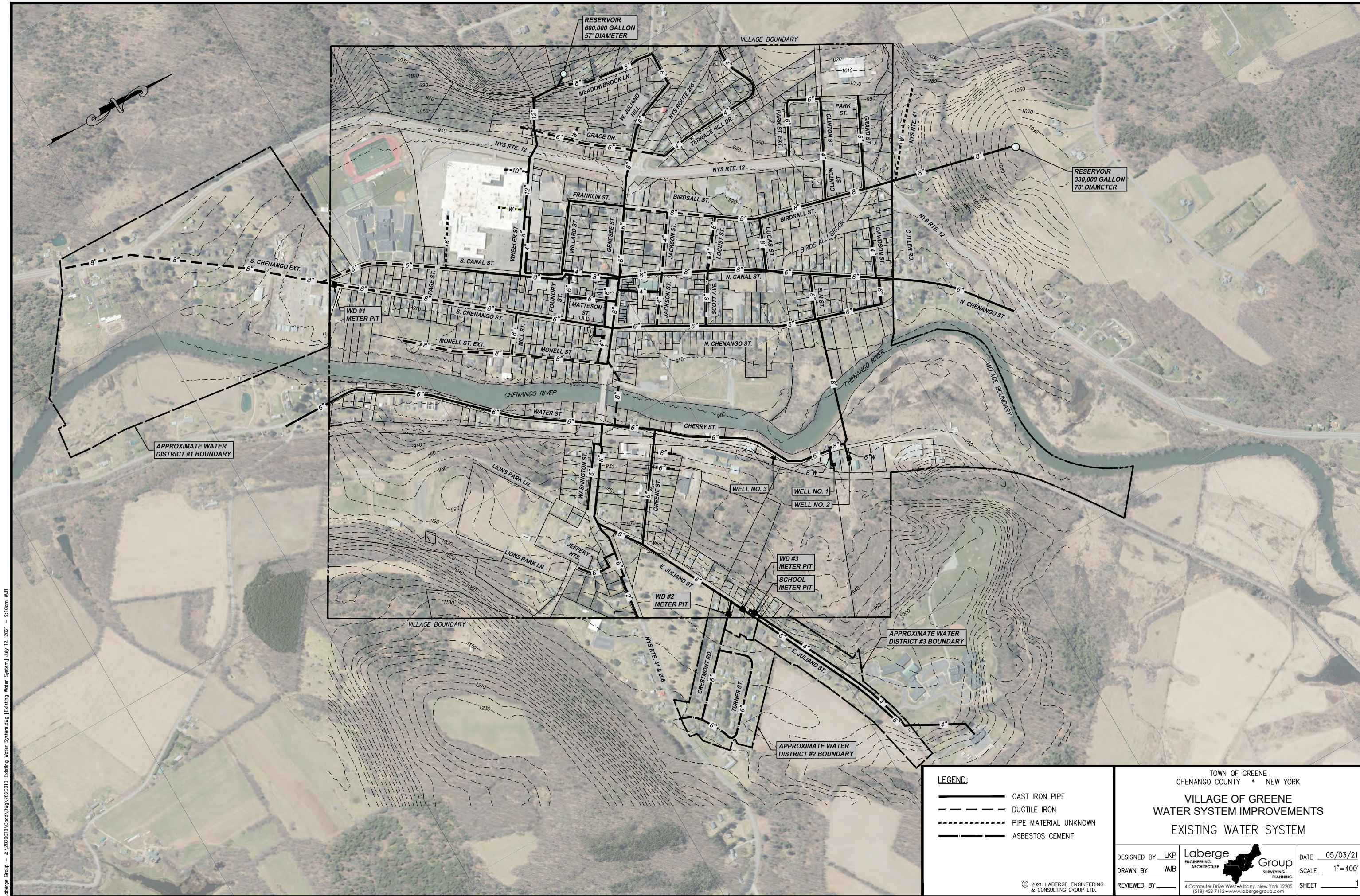
APPENDICES

A. MAPS & SCHEMATICS

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General Location Map





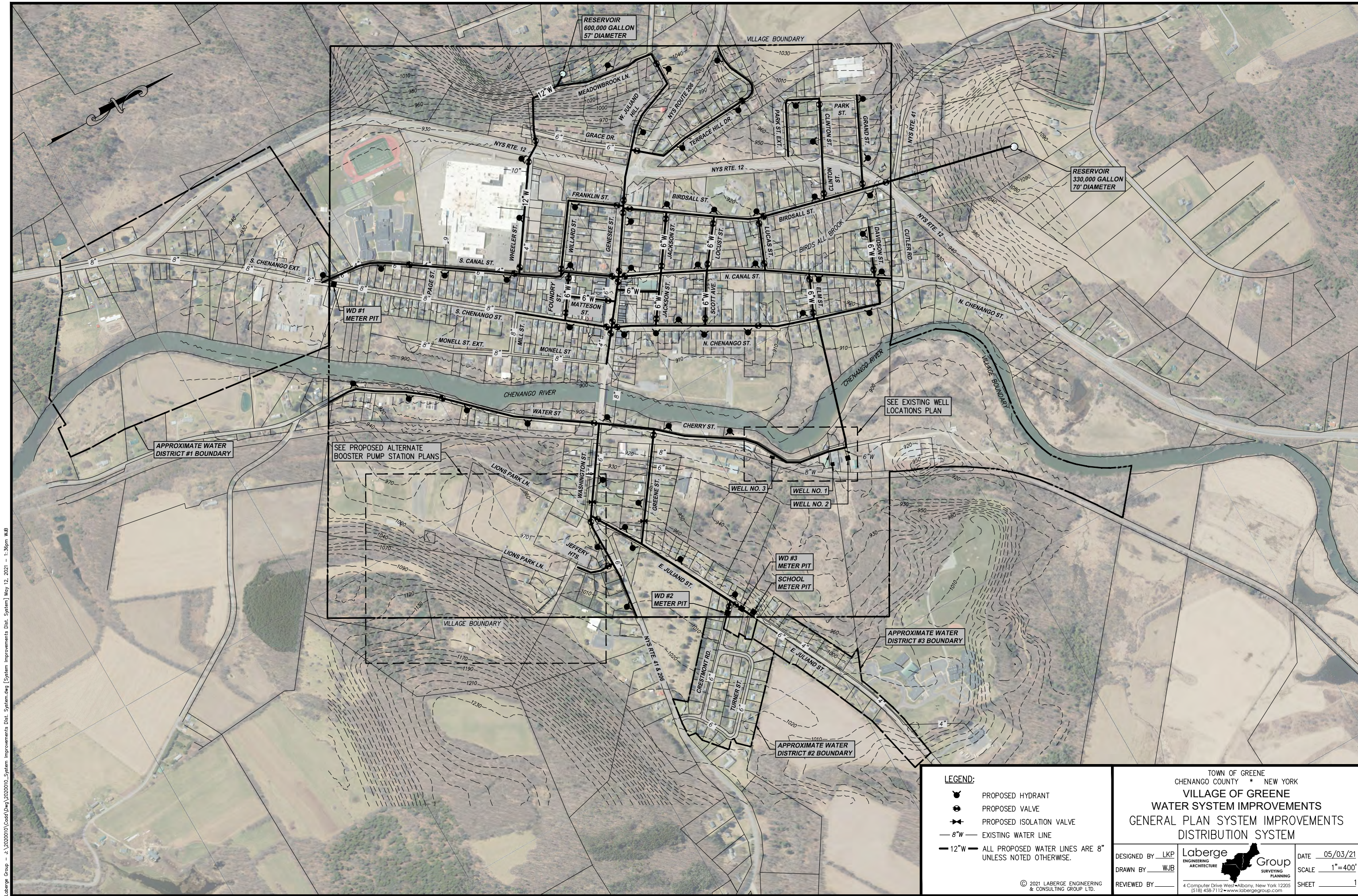
LEGEND:

	CAST IRON PIPE
	DUCTILE IRON
	PIPE MATERIAL UNKNOWN
	ASBESTOS CEMENT

TOWN OF GREENE CHENANGO COUNTY * NEW YORK	
VILLAGE OF GREENE WATER SYSTEM IMPROVEMENTS EXISTING WATER SYSTEM	
DESIGNED BY <u>LKP</u>	
DRAWN BY <u>WJB</u>	
REVIEWED BY _____	
DATE <u>05/03/21</u> SCALE <u>1"=400'</u> SHEET <u>1</u>	


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Laberge Group - J:\2020010\Cadd\Wg\2020010_System Improvements Dist. System.dwg [System Improvements Dist. System] May 12, 2021 - 1:36pm WJB



LEGEND:

- PROPOSED HYDRANT
- PROPOSED VALVE
- PROPOSED ISOLATION VALVE
- 8"W EXISTING WATER LINE
- 12"W ALL PROPOSED WATER LINES ARE 8" UNLESS NOTED OTHERWISE.



TOWN OF GREENE CHENANGO COUNTY * NEW YORK	
VILLAGE OF GREENE	
WATER SYSTEM IMPROVEMENTS	
GENERAL PLAN SYSTEM IMPROVEMENTS	
DISTRIBUTION SYSTEM	
DESIGNED BY <u>LKP</u>	
DRAWN BY <u>WJB</u>	
REVIEWED BY _____	
4 Computer Drive West • Albany, New York 12205 (518) 458-7112 • www.labergegroup.com	
DATE <u>05/03/21</u>	SCALE <u>1"=400'</u>
SHEET <u>1</u>	

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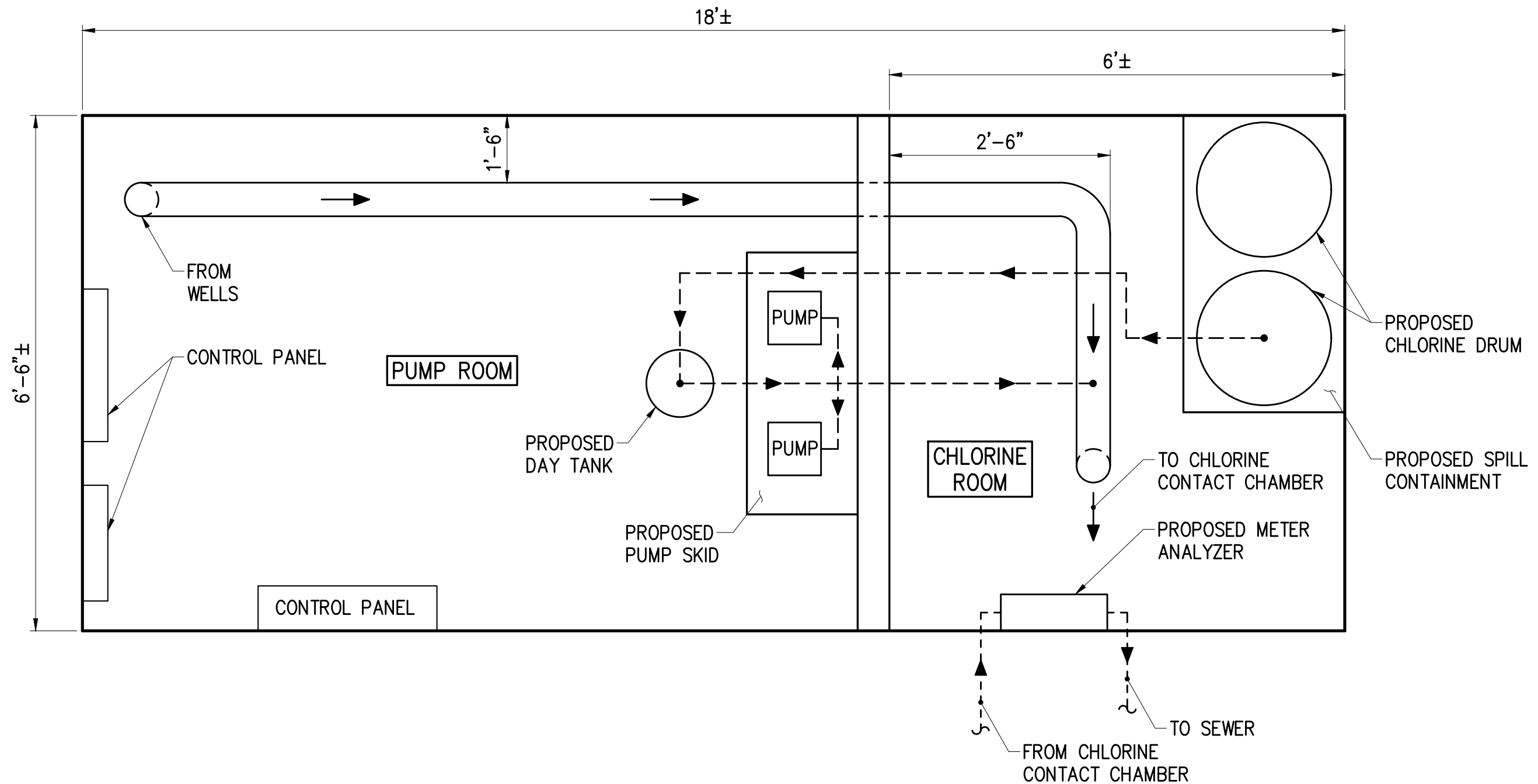


NOTE:
1. EXISTING WATER LINE TO BE ABANDONED.

LEGEND:
— 8" W — PROPOSED WATER LINE
— 6" W — EXISTING WATER LINE

TOWN OF GREENE CHENANGO COUNTY * NEW YORK	
VILLAGE OF GREENE WATER SYSTEM IMPROVEMENTS CHLORINATION IMPROVEMENTS	
DESIGNED BY <u>LKP</u> DRAWN BY <u>WJB</u> REVIEWED BY _____	<div><div>Laberge ENGINEERING ARCHITECTURE</div><div><div>Group SURVEYING PLANNING</div></div></div> <div>4 Computer Drive West • Albany, New York 12205 (518) 458-7112 • www.labergegroup.com</div>
DATE <u>05/13/21</u> SCALE <u>1"=40'</u> SHEET <u>1</u>	

Laberge Group - J:\2020010\Cadd\Wg\2020010_Chlorine Building Concept.dwg [Chlorine Building Concept] May 03, 2021 - 12:39pm WJB



TOWN OF GREENE
CHENANGO COUNTY * NEW YORK

VILLAGE OF GREENE
WATER SYSTEM IMPROVEMENTS
CHLORINE BUILDING CONCEPT

DESIGNED BY LKP
DRAWN BY WJB
REVIEWED BY _____

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DATE 05/03/21
SCALE NTS
SHEET 1

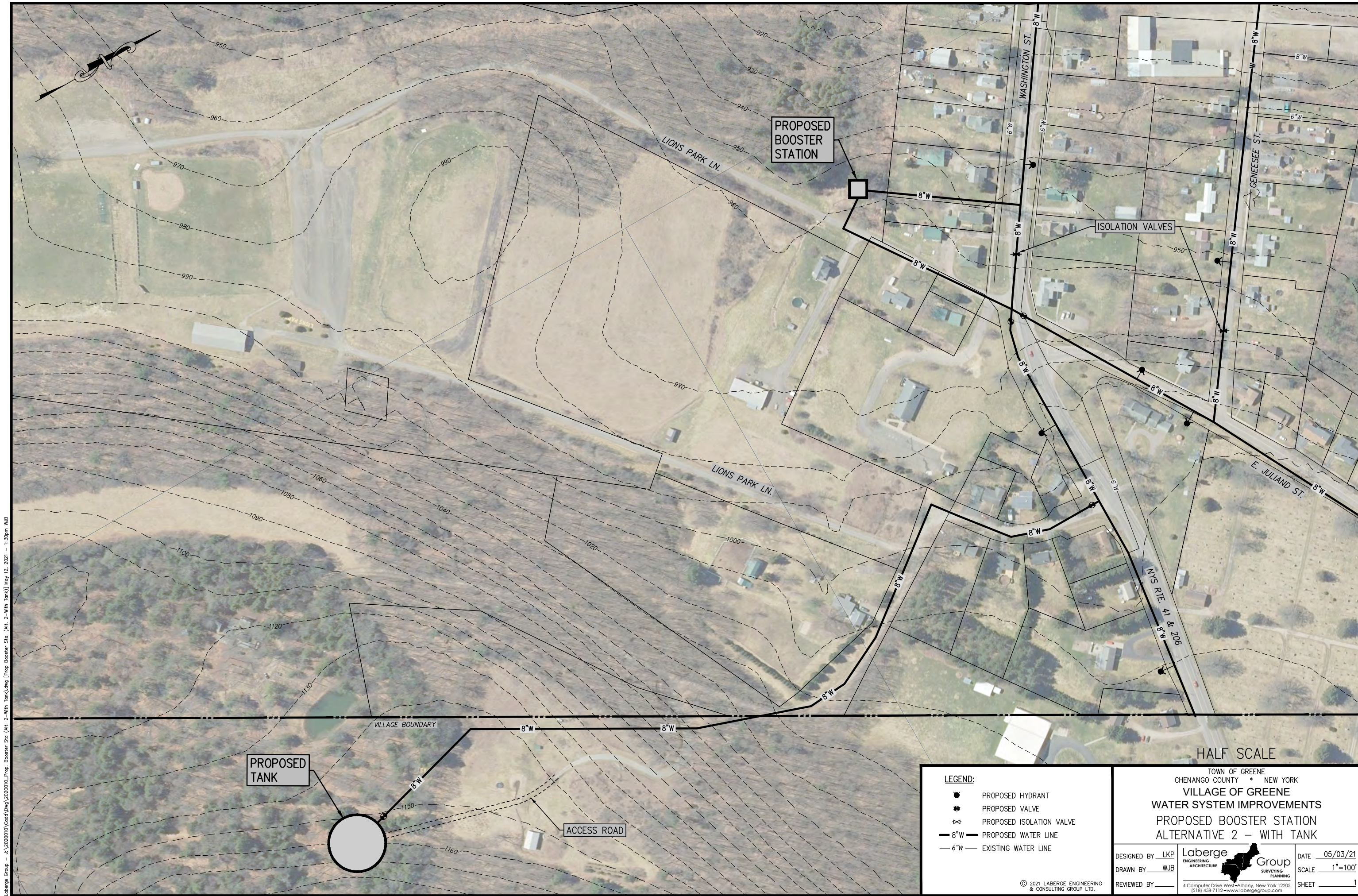
Laberge Group - J:\2020010\Cadd.Dwg 2020010_Prop. Booster Sta (Alt. 1-No Tank).dwg [Prop. Booster Sta. (Alt. 1-No Tank)] May 03, 2021 - 12:04pm WAB



LEGEND:	
	PROPOSED HYDRANT
	PROPOSED VALVE
	PROPOSED ISOLATION VALVE
	PROPOSED WATER LINE
	EXISTING WATER LINE

TOWN OF GREENE CHENANGO COUNTY * NEW YORK	
VILLAGE OF GREENE	
WATER SYSTEM IMPROVEMENTS	
PROPOSED BOOSTER STATION	
ALTERNATIVE 1 - NO TANK	
DESIGNED BY <u>LKP</u>	
DRAWN BY <u>WJB</u>	
REVIEWED BY _____	
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DATE <u>05/03/21</u>	SHEET <u>1</u>

Laberge Group - J:\2020010\Cadd\Draw\2020010_Prop_Booster Sta (Alt. 2-With Tank).dwg [Prop Booster Sta (Alt. 2-With Tank)] May 12, 2021 - 1:30pm MB



LEGEND:

- PROPOSED HYDRANT
- PROPOSED VALVE
- PROPOSED ISOLATION VALVE
- PROPOSED WATER LINE
- EXISTING WATER LINE

TOWN OF GREENE
CHENANGO COUNTY * NEW YORK

VILLAGE OF GREENE

WATER SYSTEM IMPROVEMENTS

PROPOSED BOOSTER STATION

ALTERNATIVE 2 – WITH TANK

DESIGNED BY LKP
DRAWN BY WJB
REVIEWED BY _____

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DATE 05/03/21
SCALE 1"=100'
SHEET 1

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B. NRCS SOILS REPORT

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United States
Department of
Agriculture

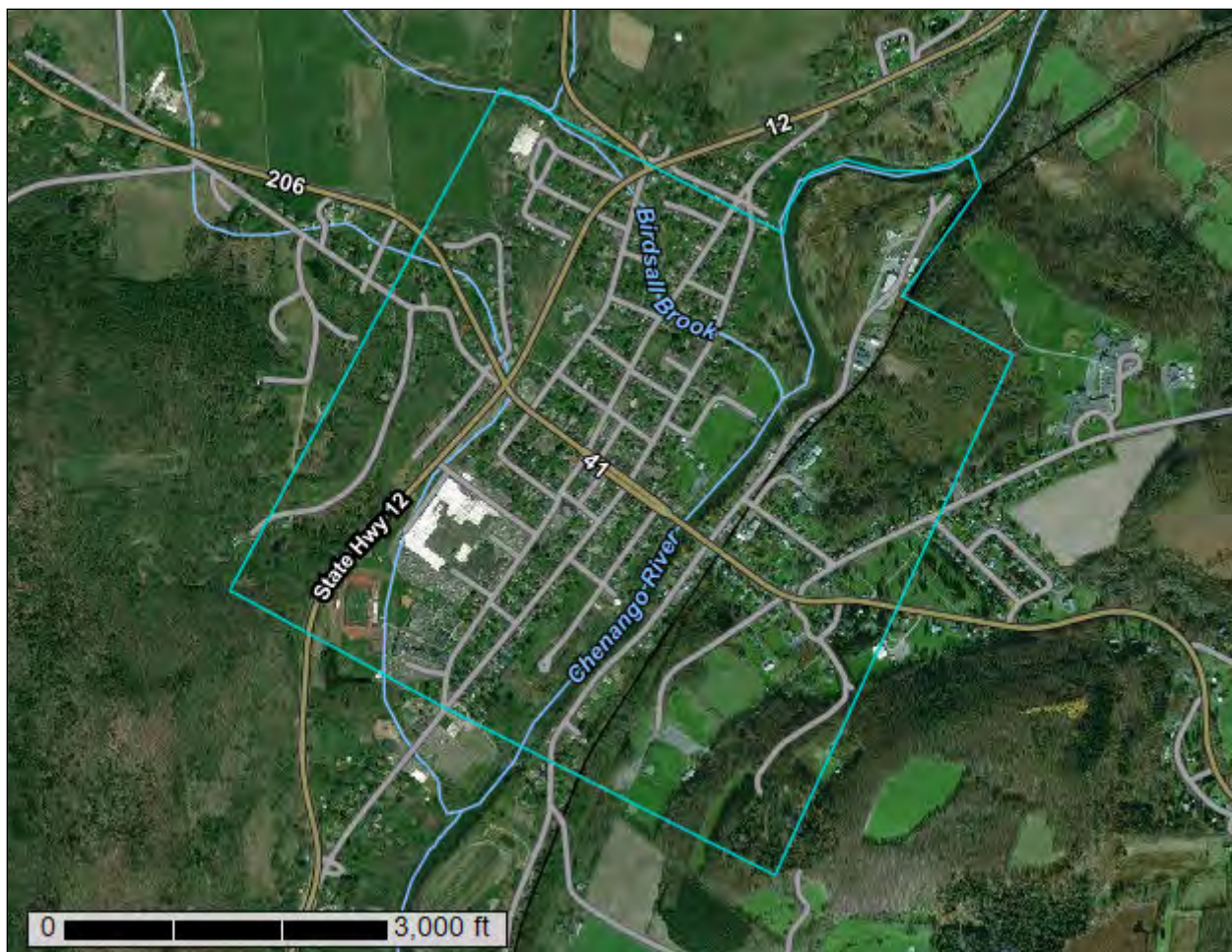
NRCS

Natural
Resources
Conservation
Service

A product of the National
Cooperative Soil Survey,
a joint effort of the United
States Department of
Agriculture and other
Federal agencies, State
agencies including the
Agricultural Experiment
Stations, and local
participants

Custom Soil Resource Report for **Chenango County, New York**

Village of Greene



October 29, 2020

Preface

Soil surveys contain information that affects land use planning in survey areas. They highlight soil limitations that affect various land uses and provide information about the properties of the soils in the survey areas. Soil surveys are designed for many different users, including farmers, ranchers, foresters, agronomists, urban planners, community officials, engineers, developers, builders, and home buyers. Also, conservationists, teachers, students, and specialists in recreation, waste disposal, and pollution control can use the surveys to help them understand, protect, or enhance the environment.

Various land use regulations of Federal, State, and local governments may impose special restrictions on land use or land treatment. Soil surveys identify soil properties that are used in making various land use or land treatment decisions. The information is intended to help the land users identify and reduce the effects of soil limitations on various land uses. The landowner or user is responsible for identifying and complying with existing laws and regulations.

Although soil survey information can be used for general farm, local, and wider area planning, onsite investigation is needed to supplement this information in some cases. Examples include soil quality assessments (<http://www.nrcs.usda.gov/wps/portal/nrcs/main/soils/health/>) and certain conservation and engineering applications. For more detailed information, contact your local USDA Service Center (<https://offices.sc.egov.usda.gov/locator/app?agency=nrcs>) or your NRCS State Soil Scientist (http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/contactus/?cid=nrcs142p2_053951).

Great differences in soil properties can occur within short distances. Some soils are seasonally wet or subject to flooding. Some are too unstable to be used as a foundation for buildings or roads. Clayey or wet soils are poorly suited to use as septic tank absorption fields. A high water table makes a soil poorly suited to basements or underground installations.

The National Cooperative Soil Survey is a joint effort of the United States Department of Agriculture and other Federal agencies, State agencies including the Agricultural Experiment Stations, and local agencies. The Natural Resources Conservation Service (NRCS) has leadership for the Federal part of the National Cooperative Soil Survey.

Information about soils is updated periodically. Updated information is available through the NRCS Web Soil Survey, the site for official soil survey information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, age, disability, and where applicable, sex, marital status, familial status, parental status, religion, sexual orientation, genetic information, political beliefs, reprisal, or because all or a part of an individual's income is derived from any public assistance program. (Not all prohibited bases apply to all programs.) Persons with disabilities who require

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How Soil Surveys Are Made

Soil surveys are made to provide information about the soils and miscellaneous areas in a specific area. They include a description of the soils and miscellaneous areas and their location on the landscape and tables that show soil properties and limitations affecting various uses. Soil scientists observed the steepness, length, and shape of the slopes; the general pattern of drainage; the kinds of crops and native plants; and the kinds of bedrock. They observed and described many soil profiles. A soil profile is the sequence of natural layers, or horizons, in a soil. The profile extends from the surface down into the unconsolidated material in which the soil formed or from the surface down to bedrock. The unconsolidated material is devoid of roots and other living organisms and has not been changed by other biological activity.

Currently, soils are mapped according to the boundaries of major land resource areas (MLRAs). MLRAs are geographically associated land resource units that share common characteristics related to physiography, geology, climate, water resources, soils, biological resources, and land uses (USDA, 2006). Soil survey areas typically consist of parts of one or more MLRA.

The soils and miscellaneous areas in a survey area occur in an orderly pattern that is related to the geology, landforms, relief, climate, and natural vegetation of the area. Each kind of soil and miscellaneous area is associated with a particular kind of landform or with a segment of the landform. By observing the soils and miscellaneous areas in the survey area and relating their position to specific segments of the landform, a soil scientist develops a concept, or model, of how they were formed. Thus, during mapping, this model enables the soil scientist to predict with a considerable degree of accuracy the kind of soil or miscellaneous area at a specific location on the landscape.

Commonly, individual soils on the landscape merge into one another as their characteristics gradually change. To construct an accurate soil map, however, soil scientists must determine the boundaries between the soils. They can observe only a limited number of soil profiles. Nevertheless, these observations, supplemented by an understanding of the soil-vegetation-landscape relationship, are sufficient to verify predictions of the kinds of soil in an area and to determine the boundaries.

Soil scientists recorded the characteristics of the soil profiles that they studied. They noted soil color, texture, size and shape of soil aggregates, kind and amount of rock fragments, distribution of plant roots, reaction, and other features that enable them to identify soils. After describing the soils in the survey area and determining their properties, the soil scientists assigned the soils to taxonomic classes (units). Taxonomic classes are concepts. Each taxonomic class has a set of soil characteristics with precisely defined limits. The classes are used as a basis for comparison to classify soils systematically. Soil taxonomy, the system of taxonomic classification used in the United States, is based mainly on the kind and character of soil properties and the arrangement of horizons within the profile. After the soil

scientists classified and named the soils in the survey area, they compared the individual soils with similar soils in the same taxonomic class in other areas so that they could confirm data and assemble additional data based on experience and research.

The objective of soil mapping is not to delineate pure map unit components; the objective is to separate the landscape into landforms or landform segments that have similar use and management requirements. Each map unit is defined by a unique combination of soil components and/or miscellaneous areas in predictable proportions. Some components may be highly contrasting to the other components of the map unit. The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The delineation of such landforms and landform segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, onsite investigation is needed to define and locate the soils and miscellaneous areas.

Soil scientists make many field observations in the process of producing a soil map. The frequency of observation is dependent upon several factors, including scale of mapping, intensity of mapping, design of map units, complexity of the landscape, and experience of the soil scientist. Observations are made to test and refine the soil-landscape model and predictions and to verify the classification of the soils at specific locations. Once the soil-landscape model is refined, a significantly smaller number of measurements of individual soil properties are made and recorded. These measurements may include field measurements, such as those for color, depth to bedrock, and texture, and laboratory measurements, such as those for content of sand, silt, clay, salt, and other components. Properties of each soil typically vary from one point to another across the landscape.

Observations for map unit components are aggregated to develop ranges of characteristics for the components. The aggregated values are presented. Direct measurements do not exist for every property presented for every map unit component. Values for some properties are estimated from combinations of other properties.

While a soil survey is in progress, samples of some of the soils in the area generally are collected for laboratory analyses and for engineering tests. Soil scientists interpret the data from these analyses and tests as well as the field-observed characteristics and the soil properties to determine the expected behavior of the soils under different uses. Interpretations for all of the soils are field tested through observation of the soils in different uses and under different levels of management. Some interpretations are modified to fit local conditions, and some new interpretations are developed to meet local needs. Data are assembled from other sources, such as research information, production records, and field experience of specialists. For example, data on crop yields under defined levels of management are assembled from farm records and from field or plot experiments on the same kinds of soil.

Predictions about soil behavior are based not only on soil properties but also on such variables as climate and biological activity. Soil conditions are predictable over long periods of time, but they are not predictable from year to year. For example, soil scientists can predict with a fairly high degree of accuracy that a given soil will have a high water table within certain depths in most years, but they cannot predict that a high water table will always be at a specific level in the soil on a specific date.

After soil scientists located and identified the significant natural bodies of soil in the survey area, they drew the boundaries of these bodies on aerial photographs and

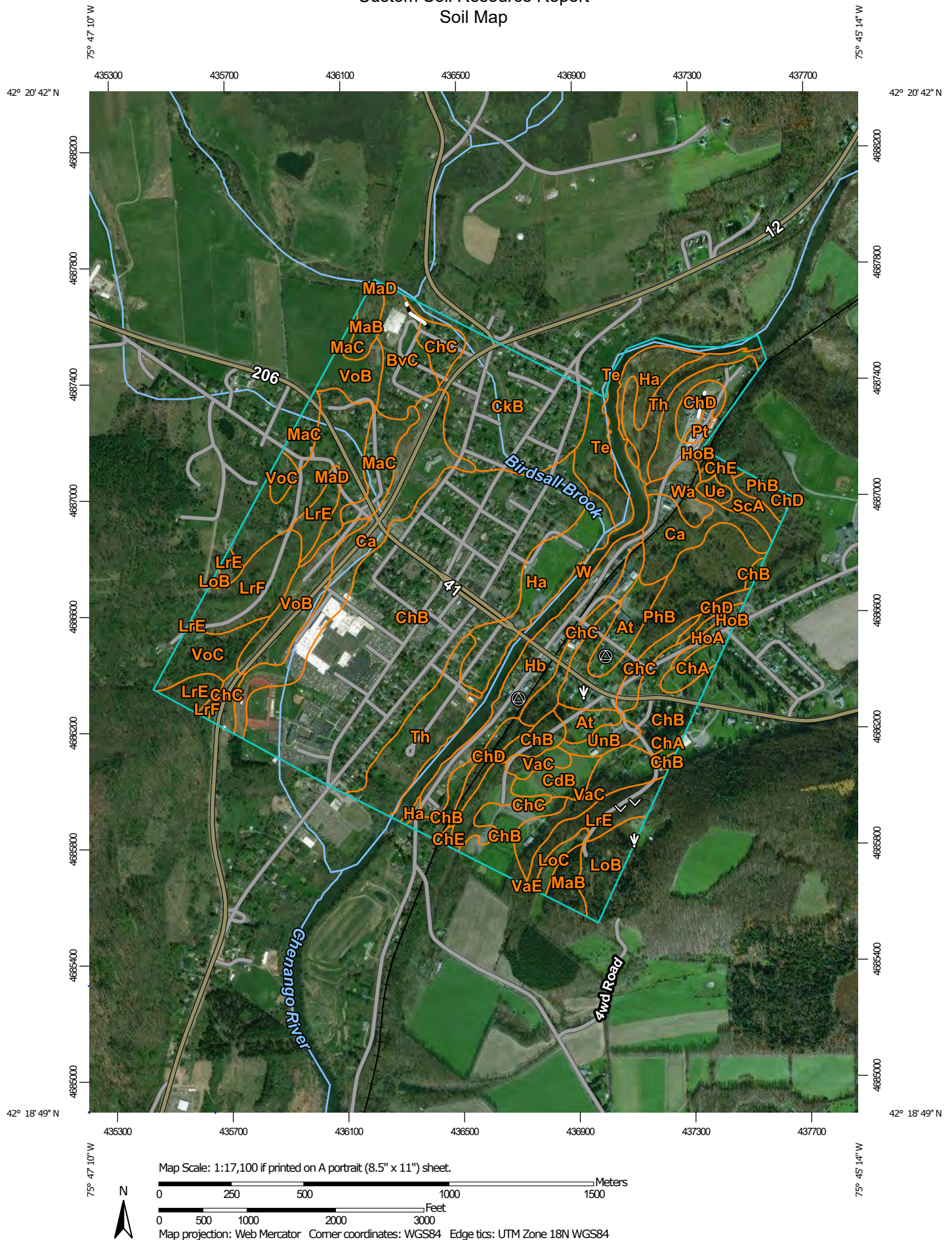
Custom Soil Resource Report

identified each as a specific map unit. Aerial photographs show trees, buildings, fields, roads, and rivers, all of which help in locating boundaries accurately.

Soil Map

The soil map section includes the soil map for the defined area of interest, a list of soil map units on the map and extent of each map unit, and cartographic symbols displayed on the map. Also presented are various metadata about data used to produce the map, and a description of each soil map unit.


Custom Soil Resource Report Soil Map



Custom Soil Resource Report

MAP LEGEND

Area of Interest (AOI)

 Area of Interest (AOI)

Soils

 Soil Map Unit Polygons

 Soil Map Unit Lines

 Soil Map Unit Points

Special Point Features

 Blowout

 Borrow Pit

 Clay Spot

 Closed Depression

 Gravel Pit

 Gravelly Spot

 Landfill

 Lava Flow

 Marsh or swamp

 Mine or Quarry

 Miscellaneous Water

 Perennial Water

 Rock Outcrop

 Saline Spot

 Sandy Spot

 Severely Eroded Spot

 Sinkhole

 Slide or Slip

 Sodic Spot

 Spoil Area

 Stony Spot

 Very Stony Spot

 Wet Spot

 Other

 Special Line Features

Water Features

 Streams and Canals

Transportation

 Rails

 Interstate Highways

 US Routes

 Major Roads

 Local Roads

Background

 Aerial Photography

MAP INFORMATION

The soil surveys that comprise your AOI were mapped at 1:15,800.

Please rely on the bar scale on each map sheet for map measurements.

Source of Map: Natural Resources Conservation Service

Web Soil Survey URL:

Coordinate System: Web Mercator (EPSG:3857)

Maps from the Web Soil Survey are based on the Web Mercator projection, which preserves direction and shape but distorts distance and area. A projection that preserves area, such as the Albers equal-area conic projection, should be used if more accurate calculations of distance or area are required.

This product is generated from the USDA-NRCS certified data as of the version date(s) listed below.

Soil Survey Area: Chenango County, New York

Survey Area Data: Version 21, Jun 11, 2020

Soil map units are labeled (as space allows) for map scales 1:50,000 or larger.

Date(s) aerial images were photographed: Mar 14, 2012—May 8, 2016

The orthophoto or other base map on which the soil lines were compiled and digitized probably differs from the background imagery displayed on these maps. As a result, some minor shifting of map unit boundaries may be evident.

Map Unit Legend

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
At	Atherton silt loam	12.9	1.8%
BvC	Bath-Valois complex, rolling	15.2	2.2%
Ca	Canandaigua silt loam	47.0	6.6%
CdB	Castile gravelly silt loam, 3 to 8 percent slopes	6.9	1.0%
ChA	Chenango gravelly silt loam, 0 to 3 percent slopes	5.2	0.7%
ChB	Chenango gravelly silt loam, 3 to 8 percent slopes	175.8	24.9%
ChC	Chenango gravelly silt loam, 8 to 15 percent slopes	30.7	4.3%
ChD	Chenango gravelly silt loam, 15 to 25 percent slopes	12.6	1.8%
ChE	Chenango gravelly silt loam, 25 to 35 percent slopes	2.2	0.3%
CkB	Chenango channery silt loam, fan, 3 to 8 percent slopes	46.3	6.5%
Ha	Hamlin silt loam, low bottom	32.5	4.6%
Hb	Hamlin silt loam, high bottom	24.6	3.5%
HoA	Howard gravelly loam, 0 to 3 percent slopes	2.5	0.4%
HoB	Howard gravelly loam, 3 to 8 percent slopes	13.4	1.9%
LoB	Lordstown channery silt loam, 3 to 8 percent slopes	10.6	1.5%
LoC	Lordstown channery silt loam, 8 to 15 percent slopes	2.9	0.4%
LrE	Lordstown and Oquaga channery silt loams, 15 to 35 percent slopes	21.7	3.1%
LrF	Lordstown and Oquaga channery silt loams, 35 to 50 percent slopes	17.4	2.5%
MaB	Mardin channery silt loam, 3 to 8 percent slopes	9.2	1.3%
MaC	Mardin channery silt loam, 8 to 15 percent slopes	15.2	2.1%
MaD	Mardin channery silt loam, 15 to 25 percent slopes	28.0	4.0%
PhB	Phelps gravelly silt loam, 3 to 8 percent slopes	34.5	4.9%
Pt	Pits, gravel and sand	1.5	0.2%
ScA	Scio silt loam, 0 to 3 percent slopes	4.1	0.6%

Custom Soil Resource Report

Map Unit Symbol	Map Unit Name	Acres in AOI	Percent of AOI
Te	Teel silt loam, moderately well drained	10.9	1.5%
Th	Teel silt loam, somewhat poorly drained	32.1	4.5%
Ue	Udorthents, smoothed	1.7	0.2%
UnB	Unadilla silt loam, 3 to 8 percent slopes	4.5	0.6%
VaC	Valois gravelly silt loam, 8 to 15 percent slopes	17.0	2.4%
VaE	Valois gravelly silt loam, 25 to 35 percent slopes	0.0	0.0%
VoB	Volusia channery silt loam, 3 to 8 percent slopes	22.3	3.1%
VoC	Volusia channery silt loam, 8 to 15 percent slopes	13.6	1.9%
W	Water	26.4	3.7%
Wa	Wayland soils complex, non-calcareous substratum, 0 to 3 percent slopes, frequently flooded	6.1	0.9%
Totals for Area of Interest		707.4	100.0%

Map Unit Descriptions

The map units delineated on the detailed soil maps in a soil survey represent the soils or miscellaneous areas in the survey area. The map unit descriptions, along with the maps, can be used to determine the composition and properties of a unit.

A map unit delineation on a soil map represents an area dominated by one or more major kinds of soil or miscellaneous areas. A map unit is identified and named according to the taxonomic classification of the dominant soils. Within a taxonomic class there are precisely defined limits for the properties of the soils. On the landscape, however, the soils are natural phenomena, and they have the characteristic variability of all natural phenomena. Thus, the range of some observed properties may extend beyond the limits defined for a taxonomic class. Areas of soils of a single taxonomic class rarely, if ever, can be mapped without including areas of other taxonomic classes. Consequently, every map unit is made up of the soils or miscellaneous areas for which it is named and some minor components that belong to taxonomic classes other than those of the major soils.

Most minor soils have properties similar to those of the dominant soil or soils in the map unit, and thus they do not affect use and management. These are called noncontrasting, or similar, components. They may or may not be mentioned in a particular map unit description. Other minor components, however, have properties and behavioral characteristics divergent enough to affect use or to require different management. These are called contrasting, or dissimilar, components. They generally are in small areas and could not be mapped separately because of the scale used. Some small areas of strongly contrasting soils or miscellaneous areas are identified by a special symbol on the maps. If included in the database for a

given area, the contrasting minor components are identified in the map unit descriptions along with some characteristics of each. A few areas of minor components may not have been observed, and consequently they are not mentioned in the descriptions, especially where the pattern was so complex that it was impractical to make enough observations to identify all the soils and miscellaneous areas on the landscape.

The presence of minor components in a map unit in no way diminishes the usefulness or accuracy of the data. The objective of mapping is not to delineate pure taxonomic classes but rather to separate the landscape into landforms or landform segments that have similar use and management requirements. The delineation of such segments on the map provides sufficient information for the development of resource plans. If intensive use of small areas is planned, however, onsite investigation is needed to define and locate the soils and miscellaneous areas.

An identifying symbol precedes the map unit name in the map unit descriptions. Each description includes general facts about the unit and gives important soil properties and qualities.

Soils that have profiles that are almost alike make up a *soil series*. Except for differences in texture of the surface layer, all the soils of a series have major horizons that are similar in composition, thickness, and arrangement.

Soils of one series can differ in texture of the surface layer, slope, stoniness, salinity, degree of erosion, and other characteristics that affect their use. On the basis of such differences, a soil series is divided into *soil phases*. Most of the areas shown on the detailed soil maps are phases of soil series. The name of a soil phase commonly indicates a feature that affects use or management. For example, Alpha silt loam, 0 to 2 percent slopes, is a phase of the Alpha series.

Some map units are made up of two or more major soils or miscellaneous areas. These map units are complexes, associations, or undifferentiated groups.

A *complex* consists of two or more soils or miscellaneous areas in such an intricate pattern or in such small areas that they cannot be shown separately on the maps. The pattern and proportion of the soils or miscellaneous areas are somewhat similar in all areas. Alpha-Beta complex, 0 to 6 percent slopes, is an example.

An *association* is made up of two or more geographically associated soils or miscellaneous areas that are shown as one unit on the maps. Because of present or anticipated uses of the map units in the survey area, it was not considered practical or necessary to map the soils or miscellaneous areas separately. The pattern and relative proportion of the soils or miscellaneous areas are somewhat similar. Alpha-Beta association, 0 to 2 percent slopes, is an example.

An *undifferentiated group* is made up of two or more soils or miscellaneous areas that could be mapped individually but are mapped as one unit because similar interpretations can be made for use and management. The pattern and proportion of the soils or miscellaneous areas in a mapped area are not uniform. An area can be made up of only one of the major soils or miscellaneous areas, or it can be made up of all of them. Alpha and Beta soils, 0 to 2 percent slopes, is an example.

Some surveys include *miscellaneous areas*. Such areas have little or no soil material and support little or no vegetation. Rock outcrop is an example.

References

- American Association of State Highway and Transportation Officials (AASHTO). 2004. Standard specifications for transportation materials and methods of sampling and testing. 24th edition.
- American Society for Testing and Materials (ASTM). 2005. Standard classification of soils for engineering purposes. ASTM Standard D2487-00.
- Cowardin, L.M., V. Carter, F.C. Golet, and E.T. LaRoe. 1979. Classification of wetlands and deep-water habitats of the United States. U.S. Fish and Wildlife Service FWS/OBS-79/31.
- Federal Register. July 13, 1994. Changes in hydric soils of the United States.
- Federal Register. September 18, 2002. Hydric soils of the United States.
- Hurt, G.W., and L.M. Vasilas, editors. Version 6.0, 2006. Field indicators of hydric soils in the United States.
- National Research Council. 1995. Wetlands: Characteristics and boundaries.
- Soil Survey Division Staff. 1993. Soil survey manual. Soil Conservation Service. U.S. Department of Agriculture Handbook 18. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_054262
- Soil Survey Staff. 1999. Soil taxonomy: A basic system of soil classification for making and interpreting soil surveys. 2nd edition. Natural Resources Conservation Service, U.S. Department of Agriculture Handbook 436. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053577
- Soil Survey Staff. 2010. Keys to soil taxonomy. 11th edition. U.S. Department of Agriculture, Natural Resources Conservation Service. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053580
- Tiner, R.W., Jr. 1985. Wetlands of Delaware. U.S. Fish and Wildlife Service and Delaware Department of Natural Resources and Environmental Control, Wetlands Section.
- United States Army Corps of Engineers, Environmental Laboratory. 1987. Corps of Engineers wetlands delineation manual. Waterways Experiment Station Technical Report Y-87-1.
- United States Department of Agriculture, Natural Resources Conservation Service. National forestry manual. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/home/?cid=nrcs142p2_053374
- United States Department of Agriculture, Natural Resources Conservation Service. National range and pasture handbook. <http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/landuse/rangepasture/?cid=stelpdb1043084>

Custom Soil Resource Report

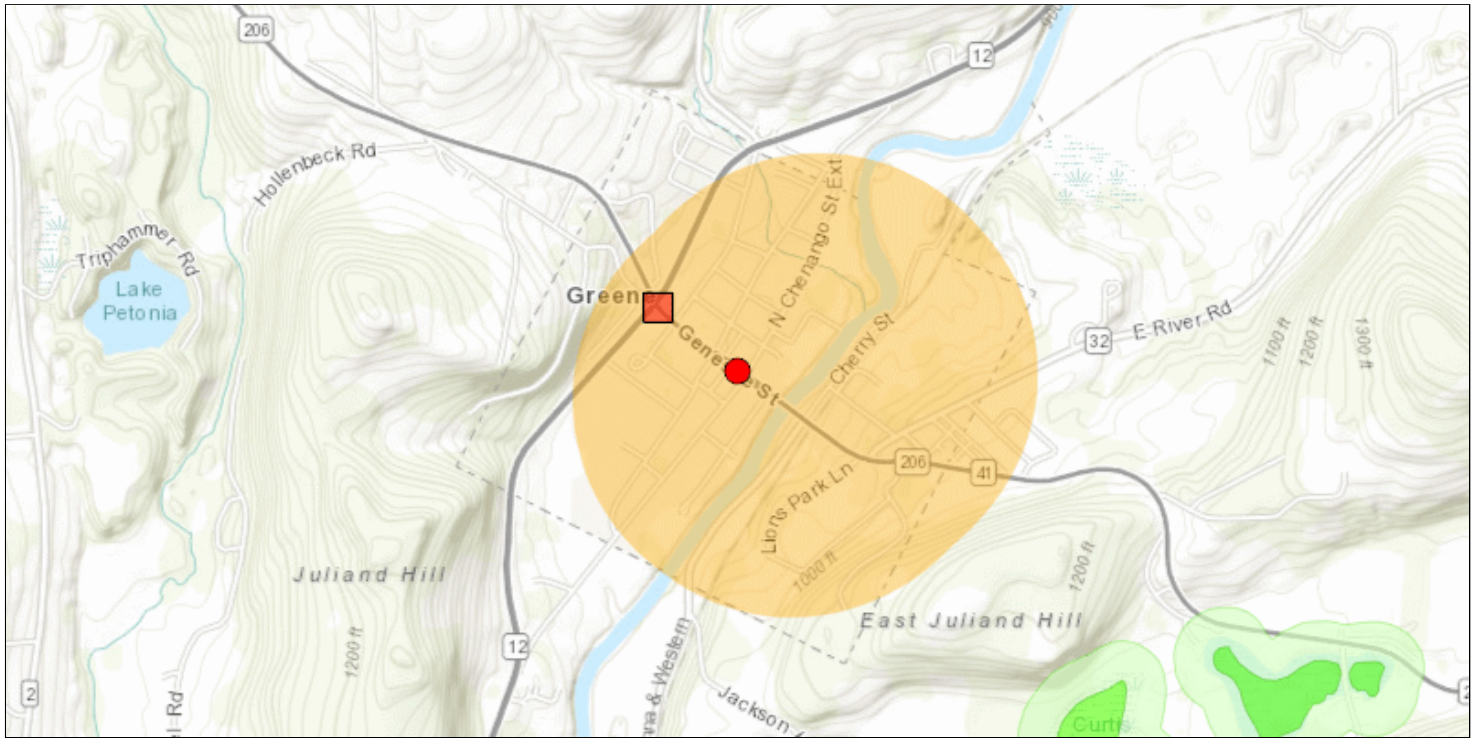
United States Department of Agriculture, Natural Resources Conservation Service. National soil survey handbook, title 430-VI. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/soils/scientists/?cid=nrcs142p2_054242

United States Department of Agriculture, Natural Resources Conservation Service. 2006. Land resource regions and major land resource areas of the United States, the Caribbean, and the Pacific Basin. U.S. Department of Agriculture Handbook 296. http://www.nrcs.usda.gov/wps/portal/nrcs/detail/national/soils/?cid=nrcs142p2_053624

United States Department of Agriculture, Soil Conservation Service. 1961. Land capability classification. U.S. Department of Agriculture Handbook 210. http://www.nrcs.usda.gov/Internet/FSE_DOCUMENTS/nrcs142p2_052290.pdf

C. ENVIRONMENTAL RESOURCES INFORMATION

Environmental Resource Mapper



The coordinates of the point you clicked on are:

UTM 18

Easng: 436538.1348218151

Northing: 4686655.051482955

Longitude/Latude

Longitude: -75.770271729468

Latude: 42.32956702180307

The approximate address of the point you clicked on is:

Heroes Music & Nostalgia

County: Chenango

Town: Greene

Village: Greene

USGS Quad: GREENE

DEC Region

Region 7:

(Central New York) Broome, Cayuga, Chenango, Cortland, Madison, Onondaga, Oswego, Tioga and Tompkins counties. For more information visit <http://www.dec.ny.gov/about/615.html>.

Rare Plants and Rare Animals

This location is in the vicinity of Mussels Listed as Endangered or Threatened - Contact NYSDEC Regional Office

This location is in the vicinity of Rare Freshwater Mussels – Not Listed by NYS

If your project or action is within or near an area with a rare animal, a permit may be required if the species is listed as endangered or threatened and the department determines the action may be harmful to the species or its habitat.

If your project or action is within or near an area with rare plants and/or significant natural communities, the environmental impacts may need to be addressed.

The presence of a unique geological feature or landform near a project, unto itself, does not trigger a requirement for a NYS DEC permit. Readers are advised, however, that there is the chance that a unique feature may also show in another data layer (ie. a wetland) and thus be subject to permit jurisdiction.

Please refer to the "Need a Permit?" tab for permit information or other authorizations regarding these natural resources.

Disclaimer: If you are considering a project or action in, or near, a wetland or a stream, a NYS DEC permit may be required. The Environmental Resources Mapper does not show all natural resources which are regulated by NYS DEC, and for which permits from NYS DEC are required. For example, Regulated Tidal Wetlands, and Wild, Scenic, and Recreational Rivers, are currently not included on the maps.

IPaC resource list

This report is an automatically generated list of species and other resources such as critical habitat (collectively referred to as *trust resources*) under the U.S. Fish and Wildlife Service's (USFWS) jurisdiction that are known or expected to be on or near the project area referenced below. The list may also include trust resources that occur outside of the project area, but that could potentially be directly or indirectly affected by activities in the project area. However, determining the likelihood and extent of effects a project may have on trust resources typically requires gathering additional site-specific (e.g., vegetation/species surveys) and project-specific (e.g., magnitude and timing of proposed activities) information.

Below is a summary of the project information you provided and contact information for the USFWS office(s) with jurisdiction in the defined project area. Please read the introduction to each section that follows (Endangered Species, Migratory Birds, USFWS Facilities, and NWI Wetlands) for additional information applicable to the trust resources addressed in that section.

Location

Chenango County, New York



Local office

New York Ecological Services Field Office

☎ (607) 753-9334

📠 (607) 753-9699

3817 Luker Road
Cortland, NY 13045-9385

<http://www.fws.gov/northeast/nyfo/es/section7.htm>

Endangered species

This resource list is for informational purposes only and does not constitute an analysis of project level impacts.

The primary information used to generate this list is the known or expected range of each species. Additional areas of influence (AOI) for species are also considered. An AOI includes areas outside of the species range if the species could be indirectly affected by activities in that area (e.g., placing a dam upstream of a fish population, even if that fish does not occur at the dam site, may indirectly impact the species by reducing or eliminating water flow downstream). Because species can move, and site conditions can change, the species on this list are not guaranteed to be found on or near the project area. To fully determine any potential effects to species, additional site-specific and project-specific information is often required.

Section 7 of the Endangered Species Act **requires** Federal agencies to "request of the Secretary information whether any species which is listed or proposed to be listed may be present in the area of such proposed action" for any project that is conducted, permitted, funded, or licensed by any Federal agency. A letter from the local office and a species list which fulfills this requirement can **only** be obtained by requesting an official species list from either the Regulatory Review section in IPaC (see directions below) or from the local field office directly.

For project evaluations that require USFWS concurrence/review, please return to the IPaC website and request an official species list by doing the following:

1. Draw the project location and click CONTINUE.
2. Click DEFINE PROJECT.
3. Log in (if directed to do so).
4. Provide a name and description for your project.
5. Click REQUEST SPECIES LIST.

Listed species¹ and their critical habitats are managed by the [Ecological Services Program](#) of the U.S. Fish and Wildlife Service (USFWS) and the fisheries division of the National Oceanic and Atmospheric Administration (NOAA Fisheries²).

Species and critical habitats under the sole responsibility of NOAA Fisheries are **not** shown on this list. Please contact [NOAA Fisheries](#) for [species under their jurisdiction](#).

-
1. Species listed under the [Endangered Species Act](#) are threatened or endangered; IPaC also shows species that are candidates, or proposed, for listing. See the [listing status page](#) for more information.
 2. [NOAA Fisheries](#), also known as the National Marine Fisheries Service (NMFS), is an office of the National Oceanic and Atmospheric Administration within the Department of Commerce.

THERE ARE NO ENDANGERED SPECIES EXPECTED TO OCCUR AT THIS LOCATION.

Migratory birds

Certain birds are protected under the Migratory Bird Treaty Act¹ and the Bald and Golden Eagle Protection Act².

Any person or organization who plans or conducts activities that may result in impacts to migratory birds, eagles, and their habitats should follow appropriate regulations and consider implementing appropriate conservation measures, as described [below](#).

1. The [Migratory Birds Treaty Act](#) of 1918.
2. The [Bald and Golden Eagle Protection Act](#) of 1940.

Additional information can be found using the following links:

- Birds of Conservation Concern <http://www.fws.gov/birds/management/managed-species/birds-of-conservation-concern.php>
- Measures for avoiding and minimizing impacts to birds <http://www.fws.gov/birds/management/project-assessment-tools-and-guidance/conservation-measures.php>
- Nationwide conservation measures for birds <http://www.fws.gov/migratorybirds/pdf/management/nationwidestandardconservationmeasures.pdf>

The birds listed below are birds of particular concern either because they occur on the [USFWS Birds of Conservation Concern](#) (BCC) list or warrant special attention in your project location. To learn more about the levels of concern for birds on your list and how this list is generated, see the FAQ [below](#). This is not a list of every bird you may find in this location, nor a guarantee that every bird on this list will be found in your project area. To see exact locations of where birders and the general public have sighted birds in and around your project area, visit the [E-bird data mapping tool](#) (Tip: enter your location, desired date range and a species on your list). For projects that occur off the Atlantic Coast, additional maps and models detailing the relative occurrence and abundance of bird species on your list are available. Links to additional information about Atlantic Coast birds, and other important information about your migratory bird list, including how to properly interpret and use your migratory bird report, can be found [below](#).

For guidance on when to schedule activities or implement avoidance and minimization measures to reduce impacts to migratory birds on your list, click on the PROBABILITY OF PRESENCE SUMMARY at the top of your list to see when these birds are most likely to be present and breeding in your project area.

NAME

BREEDING SEASON (IF A
BREEDING SEASON IS INDICATED
FOR A BIRD ON YOUR LIST, THE
BIRD MAY BREED IN YOUR
PROJECT AREA SOMETIME WITHIN
THE TIMEFRAME SPECIFIED,
WHICH IS A VERY LIBERAL
ESTIMATE OF THE DATES INSIDE
WHICH THE BIRD BREEDS
ACROSS ITS ENTIRE RANGE.

"BREEDS ELSEWHERE" INDICATES
THAT THE BIRD DOES NOT LIKELY
BREED IN YOUR PROJECT AREA.)

Bald Eagle *Haliaeetus leucocephalus*

This is not a Bird of Conservation Concern (BCC) in this area, but warrants attention because of the Eagle Act or for potential susceptibilities in offshore areas from certain types of development or activities.

<https://ecos.fws.gov/ecp/species/1626>

Breeds Sep 1 to Aug 31

Black-capped Chickadee *Poecile atricapillus praticus*

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

Breeds Apr 10 to Jul 31

Bobolink *Dolichonyx oryzivorus*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 20 to Jul 31

Wood Thrush *Hylocichla mustelina*

This is a Bird of Conservation Concern (BCC) throughout its range in the continental USA and Alaska.

Breeds May 10 to Aug 31

Yellow-bellied Sapsucker *sphyrapicus varius*

This is a Bird of Conservation Concern (BCC) only in particular Bird Conservation Regions (BCRs) in the continental USA

<https://ecos.fws.gov/ecp/species/8792>

Breeds May 10 to Jul 15

Probability of Presence Summary

The graphs below provide our best understanding of when birds of concern are most likely to be present in your project area. This information can be used to tailor and schedule your project activities to avoid or minimize impacts to birds. Please make sure you read and understand the FAQ "Proper Interpretation and Use of Your Migratory Bird Report" before using or attempting to interpret this report.

Probability of Presence (■)

Each green bar represents the bird's relative probability of presence in the 10km grid cell(s) your project overlaps during a particular week of the year. (A year is represented as 12 4-week months.) A taller bar indicates a higher probability of species presence. The survey effort (see below) can be used to establish a level of confidence in the presence score. One can have higher confidence in the presence score if the corresponding survey effort is also high.

How is the probability of presence score calculated? The calculation is done in three steps:

1. The probability of presence for each week is calculated as the number of survey events in the week where the species was detected divided by the total number of survey events for that week. For example, if in week 12 there were 20 survey events and the Spotted Towhee was found in 5 of them, the probability of presence of the Spotted Towhee in week 12 is 0.25.

2. To properly present the pattern of presence across the year, the relative probability of presence is calculated. This is the probability of presence divided by the maximum probability of presence across all weeks. For example, imagine the probability of presence in week 20 for the Spotted Towhee is 0.05, and that the probability of presence at week 12 (0.25) is the maximum of any week of the year. The relative probability of presence on week 12 is $0.25/0.25 = 1$; at week 20 it is $0.05/0.25 = 0.2$.
3. The relative probability of presence calculated in the previous step undergoes a statistical conversion so that all possible values fall between 0 and 10, inclusive. This is the probability of presence score.

To see a bar's probability of presence score, simply hover your mouse cursor over the bar.

Breeding Season (■)

Yellow bars denote a very liberal estimate of the time-frame inside which the bird breeds across its entire range. If there are no yellow bars shown for a bird, it does not breed in your project area.

Survey Effort (|)

Vertical black lines superimposed on probability of presence bars indicate the number of surveys performed for that species in the 10km grid cell(s) your project area overlaps. The number of surveys is expressed as a range, for example, 33 to 64 surveys.

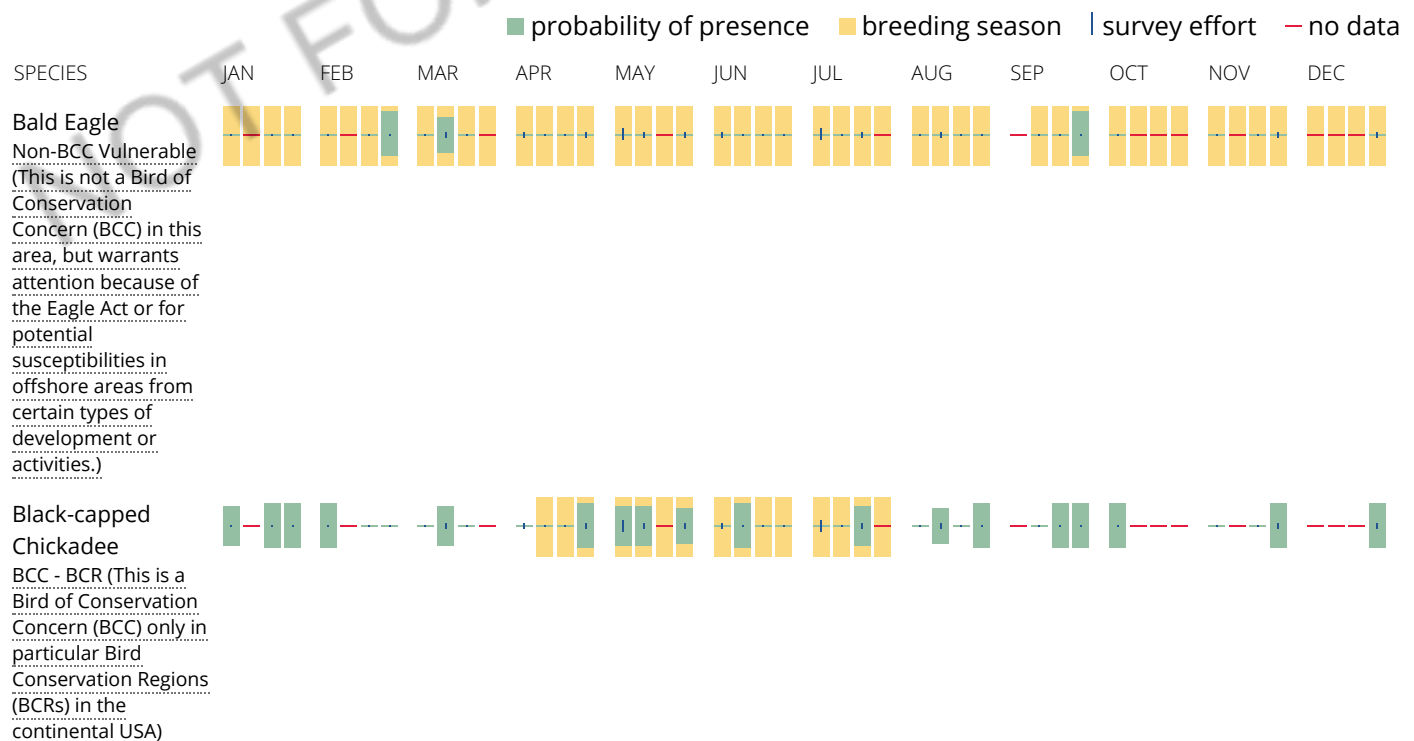
To see a bar's survey effort range, simply hover your mouse cursor over the bar.

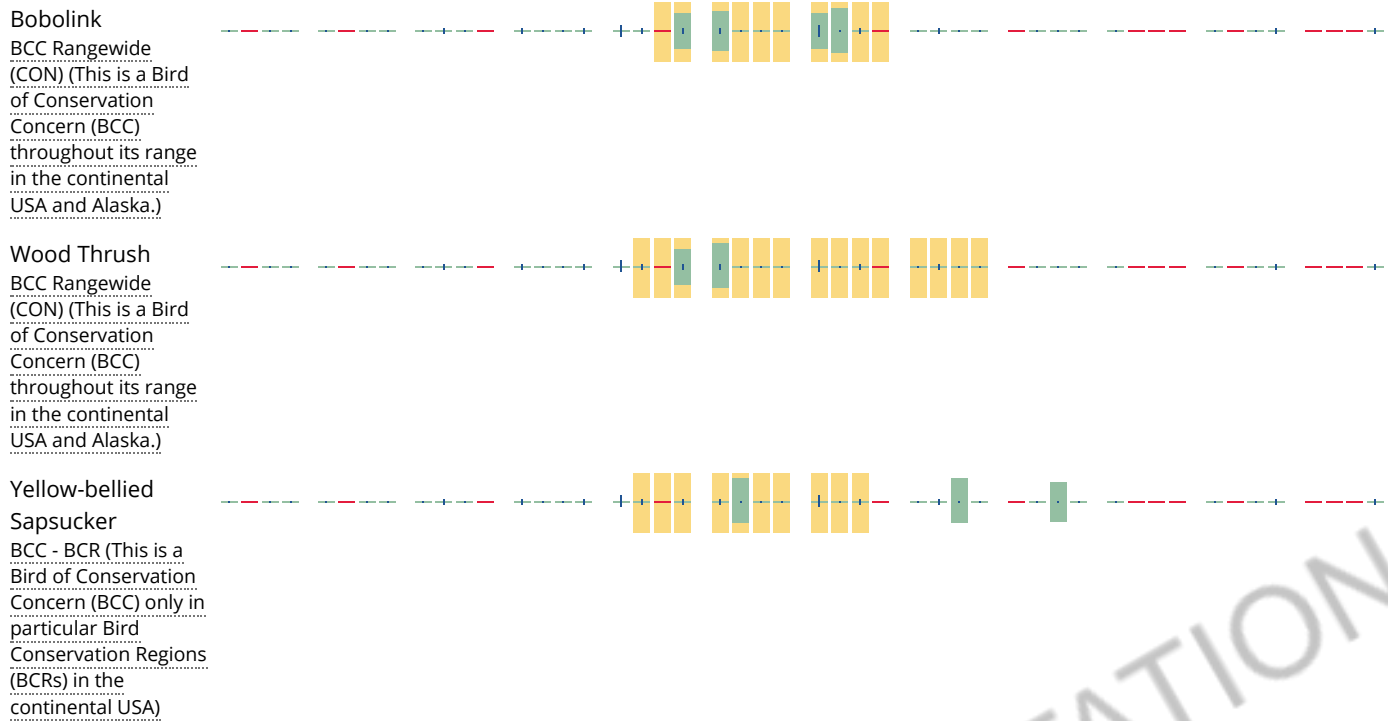
No Data (—)

A week is marked as having no data if there were no survey events for that week.

Survey Timeframe

Surveys from only the last 10 years are used in order to ensure delivery of currently relevant information. The exception to this is areas off the Atlantic coast, where bird returns are based on all years of available data, since data in these areas is currently much more sparse.





Tell me more about conservation measures I can implement to avoid or minimize impacts to migratory birds.

[Nationwide Conservation Measures](#) describes measures that can help avoid and minimize impacts to all birds at any location year round. Implementation of these measures is particularly important when birds are most likely to occur in the project area. When birds may be breeding in the area, identifying the locations of any active nests and avoiding their destruction is a very helpful impact minimization measure. To see when birds are most likely to occur and be breeding in your project area, view the Probability of Presence Summary. [Additional measures](#) and/or [permits](#) may be advisable depending on the type of activity you are conducting and the type of infrastructure or bird species present on your project site.

What does IPaC use to generate the migratory birds potentially occurring in my specified location?

The Migratory Bird Resource List is comprised of USFWS [Birds of Conservation Concern \(BCC\)](#) and other species that may warrant special attention in your project location.

The migratory bird list generated for your project is derived from data provided by the [Avian Knowledge Network \(AKN\)](#). The AKN data is based on a growing collection of [survey, banding, and citizen science datasets](#) and is queried and filtered to return a list of those birds reported as occurring in the 10km grid cell(s) which your project intersects, and that have been identified as warranting special attention because they are a BCC species in that area, an eagle ([Eagle Act](#) requirements may apply), or a species that has a particular vulnerability to offshore activities or development.

Again, the Migratory Bird Resource list includes only a subset of birds that may occur in your project area. It is not representative of all birds that may occur in your project area. To get a list of all birds potentially present in your project area, please visit the [AKN Phenology Tool](#).

What does IPaC use to generate the probability of presence graphs for the migratory birds potentially occurring in my specified location?

The probability of presence graphs associated with your migratory bird list are based on data provided by the [Avian Knowledge Network \(AKN\)](#). This data is derived from a growing collection of [survey, banding, and citizen science datasets](#).

Probability of presence data is continuously being updated as new and better information becomes available. To learn more about how the probability of presence graphs are produced and how to interpret them, go to the Probability of Presence Summary and then click on the "Tell me about these graphs" link.

How do I know if a bird is breeding, wintering, migrating or present year-round in my project area?

To see what part of a particular bird's range your project area falls within (i.e. breeding, wintering, migrating or year-round), you may refer to the following resources: [The Cornell Lab of Ornithology All About Birds Bird Guide](#), or (if you are unsuccessful in locating the bird of interest there), the [Cornell Lab of Ornithology Neotropical Birds guide](#). If a bird on your migratory bird species list has a breeding season associated with it, if that bird does occur in your project area, there may be nests present at some point within the timeframe specified. If "Breeds elsewhere" is indicated, then the bird likely does not breed in your project area.

What are the levels of concern for migratory birds?

Migratory birds delivered through IPaC fall into the following distinct categories of concern:

1. "BCC Rangewide" birds are [Birds of Conservation Concern](#) (BCC) that are of concern throughout their range anywhere within the USA (including Hawaii, the Pacific Islands, Puerto Rico, and the Virgin Islands);
2. "BCC - BCR" birds are BCCs that are of concern only in particular Bird Conservation Regions (BCRs) in the continental USA; and
3. "Non-BCC - Vulnerable" birds are not BCC species in your project area, but appear on your list either because of the [Eagle Act](#) requirements (for eagles) or (for non-eagles) potential susceptibilities in offshore areas from certain types of development or activities (e.g. offshore energy development or longline fishing).

Although it is important to try to avoid and minimize impacts to all birds, efforts should be made, in particular, to avoid and minimize impacts to the birds on this list, especially eagles and BCC species of rangewide concern. For more information on conservation measures you can implement to help avoid and minimize migratory bird impacts and requirements for eagles, please see the FAQs for these topics.

Details about birds that are potentially affected by offshore projects

For additional details about the relative occurrence and abundance of both individual bird species and groups of bird species within your project area off the Atlantic Coast, please visit the [Northeast Ocean Data Portal](#). The Portal also offers data and information about other taxa besides birds that may be helpful to you in your project review. Alternately, you may download the bird model results files underlying the portal maps through the [NOAA NCCOS Integrative Statistical Modeling and Predictive Mapping of Marine Bird Distributions and Abundance on the Atlantic Outer Continental Shelf](#) project webpage.

Bird tracking data can also provide additional details about occurrence and habitat use throughout the year, including migration. Models relying on survey data may not include this information. For additional information on marine bird tracking data, see the [Diving Bird Study](#) and the [nanotag studies](#) or contact [Caleb Spiegel](#) or [Pam Loring](#).

What if I have eagles on my list?

If your project has the potential to disturb or kill eagles, you may need to [obtain a permit](#) to avoid violating the Eagle Act should such impacts occur.

Proper Interpretation and Use of Your Migratory Bird Report

The migratory bird list generated is not a list of all birds in your project area, only a subset of birds of priority concern. To learn more about how your list is generated, and see options for identifying what other birds may be in your project area, please see the FAQ "What does IPaC use to generate the migratory birds potentially occurring in my specified location". Please be aware this report provides the "probability of presence" of birds within the 10 km grid cell(s) that overlap your project; not your exact project footprint. On the graphs provided, please also look

carefully at the survey effort (indicated by the black vertical bar) and for the existence of the “no data” indicator (a red horizontal bar). A high survey effort is the key component. If the survey effort is high, then the probability of presence score can be viewed as more dependable. In contrast, a low survey effort bar or no data bar means a lack of data and, therefore, a lack of certainty about presence of the species. This list is not perfect; it is simply a starting point for identifying what birds of concern have the potential to be in your project area, when they might be there, and if they might be breeding (which means nests might be present). The list helps you know what to look for to confirm presence, and helps guide you in knowing when to implement conservation measures to avoid or minimize potential impacts from your project activities, should presence be confirmed. To learn more about conservation measures, visit the FAQ “Tell me about conservation measures I can implement to avoid or minimize impacts to migratory birds” at the bottom of your migratory bird trust resources page.

Facilities

National Wildlife Refuge lands

Any activity proposed on lands managed by the [National Wildlife Refuge](#) system must undergo a 'Compatibility Determination' conducted by the Refuge. Please contact the individual Refuges to discuss any questions or concerns.

THERE ARE NO REFUGE LANDS AT THIS LOCATION.

Fish hatcheries

THERE ARE NO FISH HATCHERIES AT THIS LOCATION.

Wetlands in the National Wetlands Inventory

Impacts to [NWI wetlands](#) and other aquatic habitats may be subject to regulation under Section 404 of the Clean Water Act, or other State/Federal statutes.

For more information please contact the Regulatory Program of the local [U.S. Army Corps of Engineers District](#).

Please note that the NWI data being shown may be out of date. We are currently working to update our NWI data set. We recommend you verify these results with a site visit to determine the actual extent of wetlands on site.

This location overlaps the following wetlands:

FRESHWATER EMERGENT WETLAND

[PEM1Ad](#)

[PEM1/SS1E](#)

[PEM1E](#)

[PEM1F](#)

FRESHWATER FORESTED/SHRUB WETLAND

[PFO1C](#)

FRESHWATER POND

[PUBHh](#)

RIVERINE

[R2UBH](#)[R5UBH](#)

A full description for each wetland code can be found at the [National Wetlands Inventory website](#)

Data limitations

The Service's objective of mapping wetlands and deepwater habitats is to produce reconnaissance level information on the location, type and size of these resources. The maps are prepared from the analysis of high altitude imagery. Wetlands are identified based on vegetation, visible hydrology and geography. A margin of error is inherent in the use of imagery; thus, detailed on-the-ground inspection of any particular site may result in revision of the wetland boundaries or classification established through image analysis.

The accuracy of image interpretation depends on the quality of the imagery, the experience of the image analysts, the amount and quality of the collateral data and the amount of ground truth verification work conducted. Metadata should be consulted to determine the date of the source imagery used and any mapping problems.

Wetlands or other mapped features may have changed since the date of the imagery or field work. There may be occasional differences in polygon boundaries or classifications between the information depicted on the map and the actual conditions on site.

Data exclusions

Certain wetland habitats are excluded from the National mapping program because of the limitations of aerial imagery as the primary data source used to detect wetlands. These habitats include seagrasses or submerged aquatic vegetation that are found in the intertidal and subtidal zones of estuaries and nearshore coastal waters. Some deepwater reef communities (coral or tubercid worm reefs) have also been excluded from the inventory. These habitats, because of their depth, go undetected by aerial imagery.

Data precautions

Federal, state, and local regulatory agencies with jurisdiction over wetlands may define and describe wetlands in a different manner than that used in this inventory. There is no attempt, in either the design or products of this inventory, to define the limits of proprietary jurisdiction of any Federal, state, or local government or to establish the geographical scope of the regulatory programs of government agencies. Persons intending to engage in activities involving modifications within or adjacent to wetland areas should seek the advice of appropriate federal, state, or local agencies concerning specified agency regulatory programs and proprietary jurisdictions that may affect such activities.

D. FEMA MAPS

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NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations tables in the Flood Insurance Study report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations tables should be used for construction and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures for this jurisdiction.

The **projection** used in the preparation of this map was New York State Plane FIPSZONE 3102. The **horizontal datum** was NAD 83, GRS80 spheroid. Differences in datum, spheroid, projection or State Plane zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at <http://www.ngs.noaa.gov> or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSM-C-3 #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at (301) 713-3242, or visit its website at <http://www.ngs.noaa.gov>.

Base map information shown on this FIRM was derived from digital orthophotography provided by the New York Office of Cyber Security & Critical Infrastructure Coordination. This information was provided as 12-inch and 24-inch resolution natural color orthoimagery from photography dated April 2006.

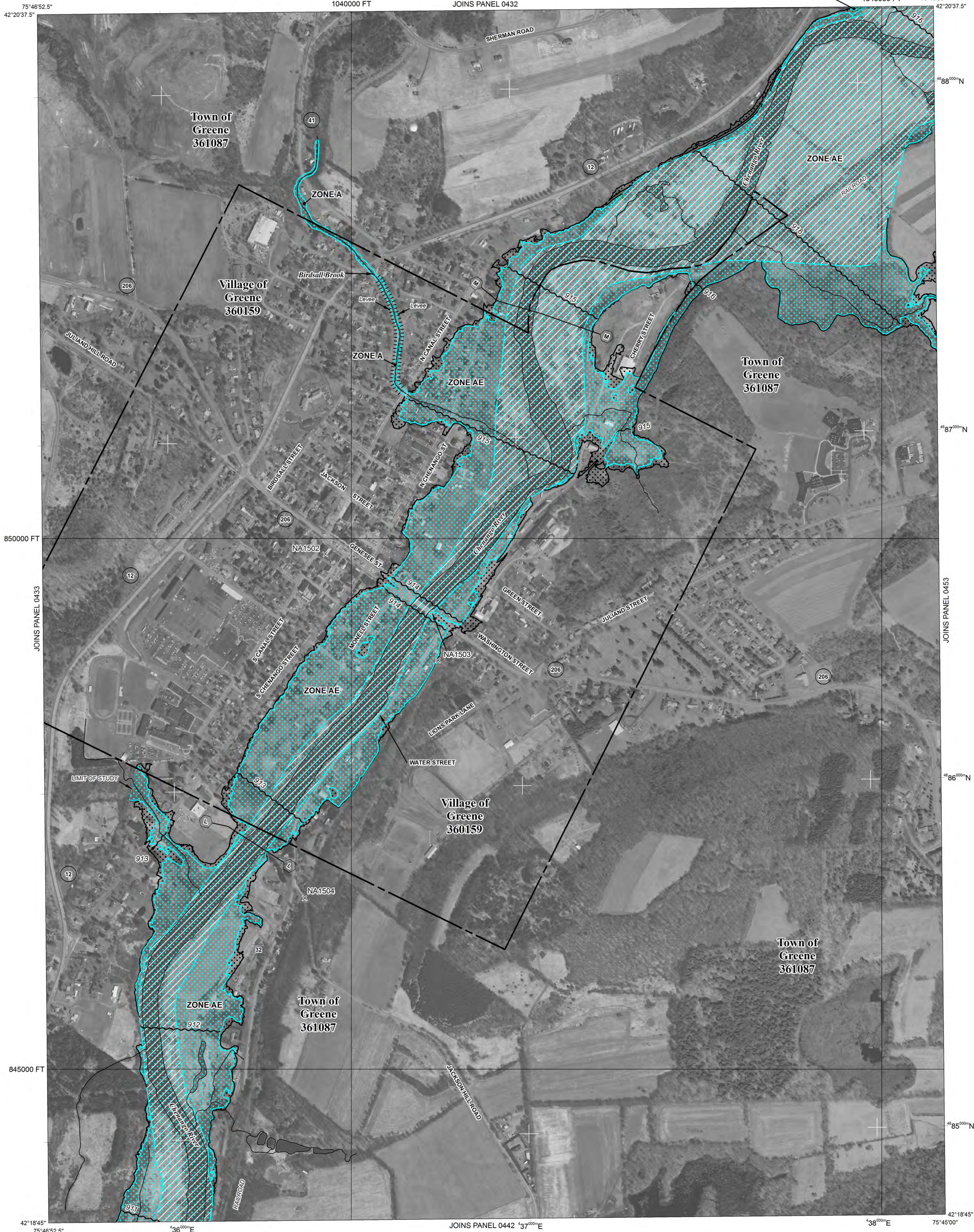
Based on updated topographic information, this map reflects more detailed and up-to-date **stream channel configurations and floodplain delineations** than those shown on the previous FIRM for this jurisdiction. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study Report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map. Also, the road to floodplain relationships for unreviewed streams may differ from what is shown on previous maps.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels, community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

Contact the **FEMA Map Service Center** at 1-800-358-9616 for information on available products associated with this FIRM. Available products may include previously issued Letters of Map Change, a Flood Insurance Study report, and/or digital versions of this map. The FEMA Map Service Center may also be reached by Fax at 1-800-358-9620 and its website at <http://www.msc.fema.gov>.

If you have **questions about this map** or questions concerning the National Flood Insurance Program in general, please call **1-877-FEMA MAP** (1-877-336-2627) or visit the FEMA website at <http://www.fema.gov/business/nfp>.



LEGEND

SPECIAL FLOOD HAZARD AREAS SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- ZONE A** No Base Flood Elevations determined.
- ZONE AE** Base Flood Elevations determined.
- ZONE AH** Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- ZONE AO** Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- ZONE AR** Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently derelict. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- ZONE A99** Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- ZONE V** Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- ZONE VE** Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE
The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS
ZONE X Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS
ZONE X Areas determined to be outside the 0.2% annual chance floodplain.
ZONE D Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS
OTHERWISE PROTECTED AREAS (OPAs)

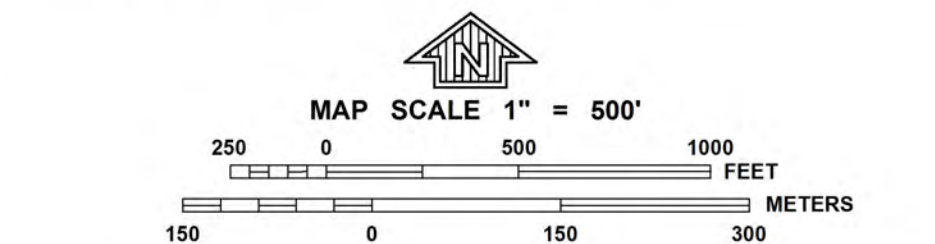
CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- 1% annual chance floodplain boundary
- 0.2% annual chance floodplain boundary
- Floodway boundary
- Zone D boundary
- CBRS and OPA boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- Limit of Moderate Wave Action
- Base Flood Elevation line and value; elevation in feet*
(EL. 987)
Base Flood Elevation value where uniform within zone; elevation in feet*
* Referenced to the North American Vertical Datum of 1988
- Cross section line
- Transect line
- Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
1000-meter Universal Transverse Mercator grid ticks, zone 18
5000-foot grid values: New York State Plane coordinate system, Central zone (FIPSZONE 3102), Transverse Mercator projection
- Bench mark (see explanation in Notes to Users section of this FIRM panel)
- River Mile

MAP REPOSITORY
Refer to listing of Map Repositories on Map Index
EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP
November 26, 2010
EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your Insurance agent or call the National Flood Insurance Program at 1-800-638-6620.



NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0434E

FIRM

FLOOD INSURANCE RATE MAP

for CHENANGO COUNTY, NEW YORK
(ALL JURISDICTIONS)

CONTAINS:

COMMUNITY	NUMBER
GREENE, TOWN OF	361087
GREENE, VILLAGE OF	360159

PANEL 434 OF 608

MAP SUFFIX: E

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

Notice to User: The Map Number shown below should be used when placing map orders; the Community Number shown above should be used on insurance applications for the subject community.

MAP NUMBER

36017C0434E

EFFECTIVE DATE

NOVEMBER 26, 2010

Federal Emergency Management Agency

E. 2016-2018 WATER WITHDRAWAL REPORTING FORM

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MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD December 2017

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
-	-	4,419,000	4,419,000
-	-	-	-
-	water loss trailers	Labor day waterball unbilled	60,000
		TOTAL ADJ	60,000
		Total Water	4,359,000

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	1,783,000	815,000	317,000		2,915,000
Town	235,000	40,000			275,000
Districts				296,000	296,000
TOTALS	2,018,000	855,000	317,000	296,000	3,486,000
Pit Meter Book 5	Ballflats	-			
Book 5	Electric	1,000			
Book 5	Highway	2,000			
Pit Meter	Sewer Plant	15,000			
				TOTAL UNBILLED	18,000

Grand Total Used 3,504,000

Lost & Unaccounted 855,000

Percent of Loss 20%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD November 2017

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>3,145,000</u>	<u>1,724,000</u>	<u>-</u>	<u>4,869,000</u>
-			-
-	water loss trailers	Labor day waterball unbilled	-
		TOTAL ADJ	60,000
			60,000
		Total Water	<u>4,809,000</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>1,968,000</u>	<u>879,000</u>	<u>280,000</u>		<u>3,127,000</u>
Town	<u>219,000</u>	<u>31,000</u>			<u>250,000</u>
Districts				<u>310,000</u>	<u>310,000</u>
TOTALS	<u>2,187,000</u>	<u>910,000</u>	<u>280,000</u>	<u>310,000</u>	<u>3,687,000</u>

Pit Meter	Ballflats	<u>-</u>			
Book 5	Electric	<u>-</u>			
Book 5	Highway	<u>1,000</u>			
Pit Meter	Sewer Plant	<u>11,000</u>			
				TOTAL UNBILLED	<u>12,000</u>

Grand Total Used **3,699,000**

Lost & Unaccounted 1,110,000

Percent of Loss 23%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD OCTOBER 2017

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
-	-	4,624,000	4,624,000
-			-
-	water loss trailers	Labor day waterball unbilled	-
		TOTAL ADJ	60,000
			60,000
		Total Water	4,564,000

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	2,244,000	1,018,000	467,000		3,729,000
Town	257,000	31,000			288,000
Districts				357,000	357,000
TALS	2,501,000	1,049,000	467,000	357,000	4,374,000
Pit Meter	Ballflats	-			
Book 5	Electric	-			
Book 5	Highway	1,000			
Pit Meter	Sewer Plant	4,000			
				TOTAL UNBILLED	5,000

Grand Total Used **4,379,000**

Lost & Unaccounted **185,000**

Percent of Loss **4%**

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD SEPTEMBER 2017

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>2,795,000</u>	<u>1,314,000</u>	<u>-</u>	<u>4,109,000</u>
-			-
-			-
	water loss	Labor day waterball	<u>8,460</u>
	trailers	unbilled	<u>60,000</u>
		TOTAL ADJ	<u>68,460</u>
		Total Water	<u>4,040,540</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>2,068,000</u>	<u>818,000</u>	<u>354,000</u>		<u>3,240,000</u>
Town	<u>220,000</u>	<u>23,000</u>			<u>243,000</u>
Districts				<u>337,000</u>	<u>337,000</u>
TOTAL	<u>2,288,000</u>	<u>841,000</u>	<u>354,000</u>	<u>337,000</u>	<u>3,820,000</u>
Pit Meter	Ballflats	<u>8,000</u>			
Book 5	Electric	<u>1,000</u>			
Book 5	Highway	<u>1,000</u>			
Pit Meter	Sewer Plant	<u>3,000</u>			
				TOTAL UNBILLED	<u>13,000</u>

Grand Total Used **3,833,000**

Lost & Unaccounted 207,540

Percent of Loss 5%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD August 2017

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>126,000</u>	<u>57,000</u>	<u>4,608,000</u>	<u>4,791,000</u>
-			<u>-</u>
-	water loss		<u>16,500</u>
	trailers	unbilled	<u>60,000</u>
		TOTAL ADJ	<u>76,500</u>
		Total Water	<u>4,714,500</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>2,185,000</u>	<u>698,000</u>	<u>365,000</u>		<u>3,248,000</u>
Town	<u>191,000</u>	<u>26,000</u>			<u>217,000</u>
Districts				<u>334,000</u>	<u>334,000</u>
TOTALS	<u>2,376,000</u>	<u>724,000</u>	<u>365,000</u>	<u>334,000</u>	<u>3,799,000</u>
Pit Meter	Ballflats	<u>1,000</u>			
Book 5	Electric	<u>1,000</u>			
Book 5	Highway	<u>1,000</u>			
Pit Meter	Sewer Plant	<u>3,000</u>			
				TOTAL UNBILLED	<u>6,000</u>

Grand Total Used **3,805,000**

Lost & Unaccounted **909,500**

Percent of Loss **19%**

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD July 2017

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>3,731,000</u>	<u>1,546,000</u>	<u>-</u>	<u>5,277,000</u>
-	-	-	-
	water loss		<u>46,445</u>
	trailers	unbilled	<u>60,000</u>
		TOTAL ADJ	<u>106,445</u>
		Total Water	<u>5,170,555</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>2,411,000</u>	<u>780,000</u>	<u>279,000</u>		<u>3,470,000</u>
Town	<u>199,000</u>	<u>32,000</u>			<u>231,000</u>
Districts				<u>378,000</u>	<u>378,000</u>
TOTALS	<u>2,610,000</u>	<u>812,000</u>	<u>279,000</u>	<u>378,000</u>	<u>4,079,000</u>
Pit Meter	Ballflats	<u>-</u>			
Book 5	Electric	<u>-</u>			
Book 5	Highway	<u>1,000</u>			
Pit Meter	Sewer Plant	<u>3,000</u>			
				TOTAL UNBILLED	<u>4,000</u>

Grand Total Used **4,083,000**

Lost & Unaccounted **1,087,555**

Percent of Loss **21%**

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD June 2017

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
-	-	5,008,000	5,008,000
-			-
-			-
	water loss		
	trailers	unbilled	60,000
		TOTAL ADJ	60,000
		Total Water	4,948,000

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	2,273,000	773,000	257,000		3,303,000
Town	222,000	4,000			226,000
Districts				368,000	368,000
TOTALS	2,495,000	777,000	257,000	368,000	3,897,000
Pit Meter	Ballflats	1,000			
Book 5	Electric	1,000			
Book 5	Highway	1,000			
Pit Meter	Sewer Plant	2,000			
				TOTAL UNBILLED	5,000

Grand Total Used 3,902,000

Lost & Unaccounted 1,046,000

Percent of Loss 21%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD May 2017

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>3,325,000</u>	<u>1,542,000</u>	<u>off line</u>	<u>4,867,000</u>
-			<u>-</u>
-	water loss		<u>2,500</u>
	trailers	unbilled	<u>60,000</u>
		TOTAL ADJ	<u>62,500</u>
		Total Water	<u>4,804,500</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>2,593,000</u>	<u>920,000</u>	<u>351,000</u>		<u>3,864,000</u>
Town	<u>255,000</u>	<u>32,000</u>			<u>287,000</u>
Districts				<u>388,000</u>	<u>388,000</u>
TALS	<u>2,848,000</u>	<u>952,000</u>	<u>351,000</u>	<u>388,000</u>	<u>4,539,000</u>
Pit Meter	Ballflats	<u>-</u>			
Book 5	Electric	<u>-</u>			
Book 5	Highway	<u>2,000</u>			
Pit Meter	Sewer Plant	<u>5,000</u>			
				TOTAL UNBILLED	<u>7,000</u>

Grand Total Used **4,546,000**

Lost & Unaccounted 258,500

Percent of Loss 5%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD April 2017

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
offline	offline	4,621,000	4,621,000
-			-
-			-
	water main break trailers	unbilled	60,000
		TOTAL ADJ	60,000
		Total Water	4,561,000

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	2,028,000	1,053,000	258,000		3,339,000
Town	226,000	30,000			256,000
Districts				304,000	304,000
JTALS	2,254,000	1,083,000	258,000	304,000	3,899,000
Pit Meter	Ballflats	-			
Book 5	Electric	1,000			
Book 5	Highway	2,000			
Pit Meter	Sewer Plant	5,000			
				TOTAL UNBILLED	8,000

Grand Total Used 3,907,000

Lost & Unaccounted 654,000

Percent of Loss 14%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD March 2017

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>3,380,000</u>	<u>1,636,000</u>	<u>-</u>	<u>5,016,000</u>
-			-
-	water main break trailers	unbilled	400,000
		TOTAL ADJ	60,000
			460,000
		Total Water	<u>4,556,000</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>2,019,000</u>	<u>902,000</u>	<u>245,000</u>		<u>3,166,000</u>
Town	<u>226,000</u>	<u>42,000</u>			<u>268,000</u>
Districts				<u>282,000</u>	<u>282,000</u>
TOTALS	<u>2,245,000</u>	<u>944,000</u>	<u>245,000</u>	<u>282,000</u>	<u>3,716,000</u>
Pit Meter	Ballflats	-			
Book 5	Electric	<u>1,000</u>			
Book 5	Highway	<u>2,000</u>			
Pit Meter	Sewer Plant	<u>-</u>			
				TOTAL UNBILLED	<u>3,000</u>

Grand Total Used 3,719,000

Lost & Unaccounted 837,000

Percent of Loss 18%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD February 2017

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>564,000</u>	<u>250,000</u>	<u>3,231,000</u>	<u>4,045,000</u>
-			-
-	water main break trailers	unbilled	-
		TOTAL ADJ	<u>60,000</u>
			<u>60,000</u>
		Total Water	<u>3,985,000</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>1,871,000</u>	<u>809,000</u>	<u>302,000</u>		<u>2,982,000</u>
Town	<u>215,000</u>	<u>55,000</u>			<u>270,000</u>
Districts				<u>293,000</u>	<u>293,000</u>
TOTALS	<u>2,086,000</u>	<u>864,000</u>	<u>302,000</u>	<u>293,000</u>	<u>3,545,000</u>
Pit Meter	Ballflats	<u>1,000</u>			
Book 5	Electric	<u>1,000</u>			
Book 5	Highway	<u>3,000</u>			
Pit Meter	Sewer Plant	<u>23,000</u>			
				TOTAL UNBILLED	<u>28,000</u>

Grand Total Used **3,573,000**

Lost & Unaccounted 412,000

Percent of Loss 10%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD January 2017

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
-	-	6,223,000	6,223,000
<u>offline</u>	<u>offline</u>		
-	water main break		-
	trailers	unbilled	60,000
		TOTAL ADJ	60,000
		Total Water	6,163,000

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	2,319,000	870,000	337,000		3,526,000
Town	1,742,000	49,000			1,791,000
Districts				374,000	374,000
TALS	4,061,000	919,000	337,000	374,000	5,691,000
Pit Meter	Ballflats	-			
Book 5	Electric	1,000			
Book 5	Highway	2,000			
Pit Meter	Sewer Plant	14,000			
				TOTAL UNBILLED	17,000

Grand Total Used 5,708,000

Lost & Unaccounted 455,000

Percent of Loss 7%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD December 2018

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
-	-	6,421,000	6,421,000
-	-	-	-
-	water loss	water main break	700,000
		sewer plant	500,000
		TOTAL ADJ	1,200,000
		Total Water	5,221,000

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	2,021,000	714,000	415,000		3,150,000
Town	224,000	59,000			283,000
Districts				404,000	404,000
TOTALS	2,245,000	773,000	415,000	404,000	3,837,000
Pit Meter	Ballflats	-			
Book 3	Electric	1,000			
Book 3	Highway	2,000			
Pit Meter	Sewer Plant	-			
Estimate	Pit Meter				
				TOTAL UNBILLED	3,000

Grand Total Used **3,840,000**

Lost & Unaccounted **1,381,000**

Percent of Loss **26%**

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD November 2018

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>4,749,000</u>	<u>1,943,000</u>	<u>-</u>	<u>6,692,000</u>
-			-
-	water loss	water main break	933,000
		sewer plant	260,000
		TOTAL ADJ	1,193,000
		Total Water	<u>5,499,000</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>1,967,000</u>	<u>840,000</u>	<u>356,000</u>		<u>3,163,000</u>
Town	<u>378,000</u>	<u>30,000</u>			<u>408,000</u>
Districts				<u>307,000</u>	<u>307,000</u>
TOTAL	<u>2,345,000</u>	<u>870,000</u>	<u>356,000</u>	<u>307,000</u>	<u>3,878,000</u>
Pit Meter	Ballflats	-			
Book 3	Electric	500			
Book 3	Highway	2,000			
Pit Meter	Sewer Plant	-			
Estimate	Pit Meter				
				TOTAL UNBILLED	<u>2,500</u>

Grand Total Used **3,880,500**

Lost & Unaccounted **1,618,500**

Percent of Loss **29%**

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD October 2018

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
-	-	4,611,000	4,611,000
-	-	-	-
-	water loss	Hydrant flushing + cleaning digester	20,000
		TOTAL ADJ	20,000
		Total Water	4,591,000

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	2,257,000	935,000	493,000		3,685,000
Town	230,000	29,000			259,000
Districts				382,000	382,000
TALS	2,487,000	964,000	493,000	382,000	4,326,000
Pit Meter	Ballflats	3,000			
Book 3	Electric	500			
Book 3	Highway	1,000			
Pit Meter	Sewer Plant	-			
Estimate	Pit Meter				
				TOTAL UNBILLED	4,500

Grand Total Used **4,330,500**

Lost & Unaccounted **260,500**

Percent of Loss **6%**

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD September 2018

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
-	-	-	4,644,000
-	-	-	-
-	water loss	Hydrant flushing + Hose fights	300,000
		TOTAL ADJ	300,000
		Total Water	4,344,000

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	1,815,000	756,000	323,000		2,894,000
Town	192,000	21,000			213,000
Districts				326,000	326,000
TALS	2,007,000	777,000	323,000	326,000	3,433,000
Pit Meter	Ballflats	5,600			
Book 3	Electric	500			
Book 3	Highway	1,000			
Estimate	Sewer Plant	50,000	clean digester	TOTAL UNBILLED	57,100

Grand Total Used 3,490,100

Lost & Unaccounted 853,900

Percent of Loss 20%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD August 2018

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>2,590,000</u>	<u>1,170,000</u>	<u>1,223,000</u>	<u>4,983,000</u>
-			-
-	water loss	Hydrant flushing	<u>1,000,000</u>
			-
		TOTAL ADJ	<u>1,000,000</u>
		Total Water	<u>3,983,000</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>1,970,000</u>	<u>550,000</u>	<u>333,000</u>		<u>2,853,000</u>
Town	<u>184,000</u>	<u>23,000</u>			<u>207,000</u>
Districts				<u>316,000</u>	<u>316,000</u>
TOTALS	<u>2,154,000</u>	<u>573,000</u>	<u>333,000</u>	<u>316,000</u>	<u>3,376,000</u>
Pit Meter	Ballflats	<u>1,000</u>			
Book 3	Electric	<u>-</u>			
Book 3	Highway	<u>1,500</u>			
Pit Meter	Sewer Plant	<u>-</u>			
				TOTAL UNBILLED	<u>2,500</u>

Grand Total Used **3,378,500**

Lost & Unaccounted **604,500**

Percent of Loss **15%**

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD July 2018

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
-	-	5,674,000	5,674,000
-	-	-	-
-	water loss	Hydrant flushing	105,960
-	-	TOTAL ADJ	105,960
-	-	Total Water	<u>5,568,040</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	2,212,000	1,010,000	342,000		3,564,000
Town	207,000	34,000			241,000
Districts				405,000	405,000
TOTALS	2,419,000	1,044,000	342,000	405,000	4,210,000
Pit Meter	Ballflats	1,000			
Book 3	Electric	1,000			
Book 3	Highway	2,000			
Pit Meter	Sewer Plant	-			
				TOTAL UNBILLED	4,000

Grand Total Used 4,214,000

Lost & Unaccounted 1,354,040

Percent of Loss 24%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD June 2018

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>1,491,000</u>	<u>915,000</u>	<u>2,503,000</u>	<u>4,909,000</u>
-			-
-	water loss	Labor day waterball	-
		TOTAL ADJ	-
		Total Water	<u>4,909,000</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>2,629,000</u>	<u>1,384,000</u>	<u>638,000</u>		<u>4,651,000</u>
Town	<u>4,000</u>	<u>28,000</u>			<u>32,000</u>
Districts				<u>-</u>	<u>-</u>
TALS	<u>2,633,000</u>	<u>1,412,000</u>	<u>638,000</u>	<u>-</u>	<u>4,683,000</u>
Pit Meter	Ballflats	<u>1,000</u>			
Book 5	Electric	<u>-</u>			
Book 5	Highway	<u>-</u>			
Pit Meter	Sewer Plant	<u>-</u>			
				TOTAL UNBILLED	<u>1,000</u>

Grand Total Used 4,684,000

Lost & Unaccounted 225,000

Percent of Loss 5%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD May 2018

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>3,967,000</u>	<u>1,850,000</u>	<u>479,000</u>	<u>6,296,000</u>
-			-
-	water loss	Labor day waterball	-
		TOTAL ADJ	-
		Total Water	<u>6,296,000</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>2,252,000</u>	<u>806,000</u>	<u>353,000</u>		<u>3,411,000</u>
Town	<u>230,000</u>	<u>29,000</u>			<u>259,000</u>
Districts				<u>365,000</u>	<u>365,000</u>
TALS	<u>2,482,000</u>	<u>835,000</u>	<u>353,000</u>	<u>365,000</u>	<u>4,035,000</u>
Pit Meter	Ballflats	-			
Book 5	Electric	<u>1,000</u>			
Book 5	Highway	<u>2,000</u>			
Pit Meter	Sewer Plant	<u>-</u>			
				TOTAL UNBILLED	<u>3,000</u>

Grand Total Used 4,038,000

Lost & Unaccounted 2,258,000

Percent of Loss 36%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD April 2018

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
-	-	4,928,000	4,928,000
-			-
-	water loss	Labor day waterball	-
		TOTAL ADJ	-
		Total Water	<u>4,928,000</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	2,056,000	813,000	353,000		3,222,000
Town	232,000	41,000			273,000
Districts				380,000	380,000
TALS	2,288,000	854,000	353,000	380,000	3,875,000
Pit Meter	Ballflats	-			
Book 5	Electric	1,000			
Book 5	Highway	2,000			
Pit Meter	Sewer Plant	20,000			
				TOTAL UNBILLED	23,000

Grand Total Used **3,898,000**

Lost & Unaccounted **1,030,000**

Percent of Loss **21%**

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD March 2018

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>3,674,000</u>	<u>1,722,000</u>	<u>-</u>	<u>5,396,000</u>
-			-
-	water loss	Labor day waterball	-
		Trailor	60,000
		TOTAL ADJ	60,000
		Total Water	<u>5,336,000</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>1,780,000</u>	<u>847,000</u>	<u>333,000</u>		<u>2,960,000</u>
Town	<u>754,000</u>	<u>53,000</u>			<u>807,000</u>
Districts				<u>248,000</u>	<u>248,000</u>
TOTALS	<u>2,534,000</u>	<u>900,000</u>	<u>333,000</u>	<u>248,000</u>	<u>4,015,000</u>
Pit Meter	Ballflats	-			
Book 5	Electric	<u>1,000</u>			
Book 5	Highway	<u>3,000</u>			
Pit Meter	Sewer Plant	<u>20,000</u>			
				TOTAL UNBILLED	<u>24,000</u>

Grand Total Used 4,039,000

Lost & Unaccounted 1,297,000

Percent of Loss 24%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD February 2018

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>161,000</u>	<u>73,000</u>	<u>5,505,000</u>	<u>5,739,000</u>
-			-
-	water loss	Labor day waterball	-
		TOTAL ADJ	-
		Total Water	<u>5,739,000</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>1,780,000</u>	<u>771,000</u>	<u>287,000</u>		<u>2,838,000</u>
Town	<u>1,281,000</u>	<u>39,000</u>			<u>1,320,000</u>
Districts				<u>283,000</u>	<u>283,000</u>
TOTAL	<u>3,061,000</u>	<u>810,000</u>	<u>287,000</u>	<u>283,000</u>	<u>4,441,000</u>
Pit Meter	Ballflats	-			
Book 5	Electric	<u>1,000</u>			
Book 5	Highway	<u>3,000</u>			
Pit Meter	Sewer Plant	<u>23,000</u>			
				TOTAL UNBILLED	<u>27,000</u>

Grand Total Used 4,468,000

Lost & Unaccounted 1,271,000

Percent of Loss 22%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD January 2018

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>3,325,000</u>	<u>1,447,000</u>	<u>-</u>	<u>4,772,000</u>
-	-	-	-
-	-	-	-
	water loss	Labor day waterball	-
	trailers	unbilled	60,000
		TOTAL ADJ	60,000
		Total Water	<u>4,712,000</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>2,276,000</u>	<u>962,000</u>	<u>392,000</u>		<u>3,630,000</u>
Town	<u>298,000</u>	<u>65,000</u>			<u>363,000</u>
Districts				<u>357,000</u>	<u>357,000</u>
TOTAL	<u>2,574,000</u>	<u>1,027,000</u>	<u>392,000</u>	<u>357,000</u>	<u>4,350,000</u>
Pit Meter	Ballflats	-			
Book 5	Electric	<u>1,000</u>			
Book 5	Highway	<u>4,000</u>			
Pit Meter	Sewer Plant	<u>19,000</u>			
				TOTAL UNBILLED	<u>24,000</u>

Grand Total Used **4,374,000**

Lost & Unaccounted **338,000**

Percent of Loss **7%**

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD

December

2019

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
828,000	405,000	3,913,000	5,146,000
-	-	Hydrant flushingplus	0
-	-	water main leak	750,000
-	water loss	Fire	0
		sewer plant	200,000
		TOTAL ADJ	950,000
		Total Water	4,196,000

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	2,186,000	805,000	374,000	-	4,094,000
Town	210,000	50,000	-	-	260,000
Districts	-	-	-	394,000	394,000
TOTALS	2,396,000	855,000	374,000	394,000	4,019,000
Pit Meter	Ballflats	0	-	-	-
Book 3	Electric	500	-	-	-
F 3	Highway	1,000	-	-	-
Pit Meter	Sewer Plant	0	-	-	-
Estimate	Pit Meter	-	-	-	-
				TOTAL UNBILLED	1,500

Grand Total Used 4,020,500

Lost & Unaccounted 175,500

Percent of Loss 4%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD November 2019

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>2,313,000</u>	<u>1,183,000</u>	<u>1,517,000</u>	<u>5,013,000</u>
-		Hydrant flushingplus	<u>450,000</u>
-		water main leak	<u>20,000</u>
	water loss	Fire	<u>-</u>
		sewer plant	<u>210,000</u>
		TOTAL ADJ	<u>680,000</u>
		Total Water	<u>4,333,000</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>1,693,000</u>	<u>683,000</u>	<u>416,000</u>		<u>3,521,000</u>
Town	<u>182,000</u>	<u>34,000</u>			<u>216,000</u>
Districts				<u>263,000</u>	<u>263,000</u>
TALS	<u>1,875,000</u>	<u>717,000</u>	<u>416,000</u>	<u>263,000</u>	<u>3,271,000</u>
Pit Meter	Ballflats	<u>-</u>			
Book 3	Electric	<u>600</u>			
Book 3	Highway	<u>900</u>			
Pit Meter	Sewer Plant	<u>175,000</u>			
Estimate	Pit Meter				
				TOTAL UNBILLED	<u>176,500</u>

Grand Total Used **3,447,500**

Lost & Unaccounted **885,500**

Percent of Loss **20%**

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD

October

2019

GALLONS OF WATER PUMPED

WELL#1 40 HPWELL#2 20HPWELL#3 60HPTOTAL OF WELLS

0

0

0

5,169,000

5,169,000

Hydrant flushingplus

500,000

water main leak

0

Fire

0

sewer plant

0

TOTAL ADJ

500,000

Total Water

4,669,000

GALLONS OF WATER SOLD

ResidentialCommercialIndustrialTown DistrictsTOTAL

Village

2,051,000

819,000

495,000

4,094,000

Town

213,000

23,000

236,000

Districts

372,000

372,000

TOTALS

2,264,000

842,000

495,000

372,000

3,973,000

Pit Meter

Ballflats

2,700

Book 3

Electric

500

P 3

Highway

600

Pit Meter

Sewer Plant

0

Estimate

Pit Meter

-

TOTAL UNBILLED

3,800

Grand Total Used

3,976,800

Lost & Unaccounted

692,200

Percent of Loss

15%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD

September

2019

GALLONS OF WATER PUMPED

WELL#1 40 HP

3,202,000

WELL#2 20HP

1,371,000

WELL#3 60HP

0

TOTAL OF WELLS

4,573,000

Hydrant flushingplus

water main leak

0

water loss

Fire

0

sewer plant

0

TOTAL ADJ

0

Total Water

4,573,000

GALLONS OF WATER SOLD

Residential

Commercial

Industrial

Town Districts

TOTAL

Village

2,187,000

725

756,000

337,000

4,009,000

Town

218,000

28,000

246,000

Districts

23,

379,000

379,000

TOTALS

2,405,000

784,000

337,000

379,000

3,905,000

Pit Meter

Ballflats

6,700

3

Electric

800

Book 3

Highway

800

Pit Meter

Sewer Plant

0

Estimate

Pit Meter

TOTAL UNBILLED

8,300

Grand Total Used

3,913,300

Lost & Unaccounted

659,700

Percent of Loss

14%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD August 2019

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
-	-	5,484,000	5,484,000
-	-	Hydrant flushingplus	600,000
-	-	water main leak	-
	water loss	Fire	-
		sewer plant	200,000
		TOTAL ADJ	800,000
		Total Water	4,684,000

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	2,101,000	726,000	323,000		3,879,000
Town	184,000	29,000			213,000
Districts				360,000	360,000
TALS	2,285,000	755,000	323,000	360,000	3,723,000
Pit Meter	Ballflats	1,000			
Book 3	Electric	500			
Book 3	Highway	1,500			
Pit Meter	Sewer Plant	-			
Estimate	Pit Meter				
				TOTAL UNBILLED	3,000

Grand Total Used 3,726,000

Lost & Unaccounted 958,000

Percent of Loss 20%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD July 2019

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>3,467,000</u>	<u>1,501,000</u>	<u>-</u>	<u>4,968,000</u>
-		Hydrant flushingplus	-
-		water main leak	-
	water loss	Fire	-
		sewer plant	-
		TOTAL ADJ	-
		Total Water	<u>4,968,000</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>2,505,000</u>	<u>741,000</u>	<u>245,000</u>		<u>4,220,000</u>
Town	<u>221,000</u>	<u>33,000</u>			<u>254,000</u>
Districts				<u>363,000</u>	<u>363,000</u>
TOTALS	<u>2,726,000</u>	<u>774,000</u>	<u>245,000</u>	<u>363,000</u>	<u>4,108,000</u>
Pit Meter	Ballflats	<u>24,000</u>			
Book 3	Electric	<u>500</u>			
Book 3	Highway	<u>2,300</u>			
Meter	Sewer Plant	<u>1,700</u>			
Estimate	Pit Meter				
				TOTAL UNBILLED	<u>28,500</u>
				Grand Total Used	<u>4,136,500</u>
				Lost & Unaccounted	<u>831,500</u>
				Percent of Loss	<u>17%</u>

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD

June

2019

GALLONS OF WATER PUMPED

WELL#1 40 HP

0

WELL#2 20HP

0

WELL#3 60HP

5,156,000

TOTAL OF WELLS

5,156,000

Hydrant flushingplus

0

water main leak

500,000

Fire

0

sewer plant

300,000

TOTAL ADJ

800,000

Total Water

4,356,000

GALLONS OF WATER SOLD

Residential

Commercial

Industrial

Town Districts

TOTAL

Village

1,958,000

725

687,000

245,000

3,619,000

Town

267,000

23,

26,000

293,000

Districts

314,000

314,000

TOTALS

2,225,000

713,000

245,000

314,000

3,497,000

Pit Meter

Ballflats

500

Book 3

Electric

500

Highway

2,500

Sewer Plant

0

Pit Meter

Pit Meter

TOTAL UNBILLED

3,500

Grand Total Used

3,500,500

Lost & Unaccounted

855,500

Percent of Loss

20%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD

May

2019

GALLONS OF WATER PUMPED

WELL#1 40 HP

4,478,000

WELL#2 20HP

1,788,000

WELL#3 60HP

0

TOTAL OF WELLS

6,266,000

Hydrant flushingplus
water main leak

0

700,000

Fire
sewer plant

0

500,000

TOTAL ADJ

1,200,000

Total Water

5,066,000

GALLONS OF WATER SOLD

Residential

Commercial

Industrial

Town Districts

TOTAL

Village

2,041,000

725

735,000

334,000

3,839,000

Town

253,000

23,

29,000

282,000

Districts

423,000

423,000

TOTALS

2,294,000

764,000

334,000

423,000

3,815,000

Pit Meter

Ballflats

1,000

Book 3

Electric

500

3

Highway

2,000

Pit Meter

Sewer Plant

0

Estimate

Pit Meter

-

TOTAL UNBILLED

3,500

Grand Total Used

3,818,500

Lost & Unaccounted

1,247,500

Percent of Loss

25%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD April 2019

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
-	-	6,551,000	6,551,000
-		Hydrant flushingplus	800,000
-		water main leak	-
	water loss	Fire	350,000
		sewer plant	400,000
		TOTAL ADJ	1,550,000
		Total Water	5,001,000

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	2,037,000	813,000	363,000		3,942,000
Town	257,000	41,000			298,000
Districts				516,000	516,000
TOTALS	2,294,000	854,000	363,000	516,000	4,027,000
Pit Meter	Ballflats	-			
Book 3	Electric	1,500			
Book 3	Highway	2,500			
Pit Meter	Sewer Plant	-			
Estimate	Pit Meter				
				TOTAL UNBILLED	4,000
				Grand Total Used	4,031,000
				Lost & Unaccounted	970,000
				Percent of Loss	19%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD March 2019

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>5,114,000</u>	<u>2,016,000</u>	<u>-</u>	<u>7,130,000</u>
-		Hydrant flushingplus	
-		water main leak	<u>800,000</u>
	water loss	Raymond house leak	<u>650,000</u>
		sewer plant	<u>500,000</u>
		TOTAL ADJ	<u>1,950,000</u>
		Total Water	<u>5,180,000</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>1,757,000</u>	<u>866,000</u>	<u>347,000</u>		<u>3,699,000</u>
Town	<u>576,000</u>	<u>68,000</u>			<u>644,000</u>
Districts				<u>469,000</u>	<u>469,000</u>
TOTALS	<u>2,333,000</u>	<u>934,000</u>	<u>347,000</u>	<u>469,000</u>	<u>4,083,000</u>
Pit Meter	Ballflats	-			
Book 3	Electric	<u>1,000</u>			
Book 3	Highway	<u>3,000</u>			
Pit Meter	Sewer Plant	-			
Estimate	Pit Meter				
				TOTAL UNBILLED	<u>4,000</u>

Grand Total Used 4,087,000

Lost & Unaccounted 1,093,000

Percent of Loss 21%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD

February

2019

GALLONS OF WATER PUMPED

WELL#1 40 HP

0

WELL#2 20HP

0

WELL#3 60HP

7,150,000

TOTAL OF WELLS

7,150,000

demolition

0

water loss

water main break

850,000

sewer plant

700,000

TOTAL ADJ

1,550,000

Total Water

5,600,000

GALLONS OF WATER SOLD

Residential

Commercial

Industrial

Town Districts

TOTAL

Village

1,918,000

725

743,000

476,000

3,866,000

Town

548,000

23,

59,000

607,000

Districts

444,000

444,000

TOTALS

2,466,000

802,000

476,000

444,000

4,188,000

Pit Meter

Ballflats

0

Bonk 3

Electric

1,000

[3

Highway

2,000

Pit Meter

Sewer Plant

0

Estimate

Pit Meter

TOTAL UNBILLED

3,000

Grand Total Used

4,191,000

Lost & Unaccounted

1,409,000

Percent of Loss

25%

MONTHLY REPORT OF WATER PUMPED & SOLD

SERVICE PERIOD January 2019

GALLONS OF WATER PUMPED

<u>WELL#1 40 HP</u>	<u>WELL#2 20HP</u>	<u>WELL#3 60HP</u>	<u>TOTAL OF WELLS</u>
<u>4,585,000</u>	<u>1,900,000</u>	<u>-</u>	<u>6,485,000</u>
-			
-			
	water loss	demolition	250,000
		water main break	400,000
		sewer plant	700,000
		TOTAL ADJ	1,350,000
		Total Water	<u>5,135,000</u>

GALLONS OF WATER SOLD

	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Town Districts</u>	<u>TOTAL</u>
Village	<u>2,040,000</u>	<u>855,000</u>	<u>399,000</u>		<u>3,294,000</u>
Town	<u>228,000</u>	<u>50,000</u>			<u>278,000</u>
Districts				<u>503,000</u>	<u>503,000</u>
TALS	<u>2,268,000</u>	<u>905,000</u>	<u>399,000</u>	<u>503,000</u>	<u>4,075,000</u>
Pit Meter	Ballflats	-			
Book 3	Electric	<u>1,000</u>			
Book 3	Highway	<u>2,500</u>			
Pit Meter	Sewer Plant	<u>-</u>			
Estimate	Pit Meter				
				TOTAL UNBILLED	<u>3,500</u>

Grand Total Used 4,078,500

Lost & Unaccounted 1,056,500

Percent of Loss 21%

F. VILLAGE OF GREENE 2020-2021 BUDGET

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Expense Control Report Parameters

Report ID:		Overbudget Only:	No	
Year:	2021	Include Beg. Encumbrance:	Yes	
Period:	1	To:	12	Apply to Budget Columns: No
Description:	Display	Apply % to Original Budget:	No	
Spacing:	Single	Print Parent Account:	No	
Acct Status:	Active	Use Alt Fund:	No	
Suppress Zero Accts.:	None	Encumber Personal Services:	No	
Summary Only:	No	Grand Totals on Separate Page:	No	
		Include Req:	No	

Account Table:	F	FUND F WATER FUND			
	Rule No.	Component	From	To	Acct Type From To
	1	FUND	F	F	

Alt. Sort Table:					
Sort:		Sort	Subtotal	Page Break	Subheading
	1	Type	No	No	Yes

Print Display Description: No

Date Prepared: 11/18/2020 10:23 AM

Report Date: 11/18/2020

Account Table: F

Alt. Sort Table:

VILLAGE OF GREENE

Expense Control Report

Fiscal Year: 2021 Period From: 1 To: 12

Alt. Sort Table:		Fiscal Year: 2021 Period From: 1/1/12							
Account No.	Description	Curr. Month Total Expended	Original Budget	YTD Adjusted Budget	YTD Actual Expended	YTD Unexpended Balance	YTD Encumbered	YTD Available Balance	Percent Exp. Balance
Type E	Expense								
F.1910.431	UNALLOCATED	0.00	10,500.00	10,500.00	0.00	10,500.00	0.00	10,500.00	0.00
F.1920.400	INSURANCE.INSURANCE								
F.1920.400	MISCELLANEOUS.CONTRACT	0.00	100.00	100.00	0.00	100.00	0.00	100.00	0.00
F.1990.490	UAL								
F.1990.490	CONTINGENT ACCOUNT	0.00	4,000.00	4,000.00	0.00	4,000.00	0.00	4,000.00	0.00
F.8310.100	WATER	1,166.40	25,302.00	25,802.00	12,150.45	13,651.55	0.00	13,651.55	47.09
F.8310.100	ADMINISTRATION.PERSONAL								
F.8310.100	SERVICES								
F.8310.110	WATER	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F.8310.110	ADMINISTRATION.OVERTIME								
F.8310.406	WATER	0.00	2,000.00	1,500.00	0.00	1,500.00	0.00	1,500.00	0.00
F.8310.406	ADMINISTRATION.ATTORNEY								
F.8310.406	FEES								
F.8310.412	WATER	66.39	3,050.00	3,050.00	1,391.44	1,658.56	0.00	1,658.56	45.62
F.8310.412	ADMINISTRATION.TELEPHON								
F.8310.412	E								
F.8310.415	WATER	235.82	4,000.00	4,000.00	824.13	3,175.87	0.00	3,175.87	20.60
F.8310.415	ADMINISTRATION.POSTAGE								
F.8310.416	WATER	0.00	3,000.00	3,000.00	1,366.29	1,633.71	0.00	1,633.71	45.54
F.8310.416	ADMINISTRATION.MISC								
F.8310.416	SUPPLIES								
F.8310.451	WATER	62.50	5,000.00	5,000.00	2,375.00	2,625.00	0.00	2,625.00	47.50
F.8310.451	ADMINISTRATION.ENGINEERI								
F.8310.451	NG SUPPLIES								
F.8310.460	WATER	0.00	2,000.00	2,000.00	1,993.34	6.66	0.00	6.66	99.67
F.8310.460	ADMINISTRATION.AUDITORS								
F.8320.411	POWER PUMPING.UTILITIES	817.15	11,600.00	11,600.00	4,367.77	7,232.23	0.00	7,232.23	37.65
F.8330.200	PURIFICATION.EQUIPMENT	7,592.50	7,900.00	7,900.00	7,892.50	7.50	0.00	7.50	99.91
F.8330.416	PURIFICATION.MISC	7.50	300.00	300.00	7.50	292.50	0.00	292.50	2.50
F.8330.416	SUPPLIES								
F.8330.422	PURIFICATION.REPAIRS	0.00	2,250.00	429.00	0.00	429.00	0.00	429.00	0.00
F.8330.457	PURIFICATION.CHEMICALS	0.00	1,500.00	1,500.00	0.00	1,500.00	0.00	1,500.00	0.00
F.8330.458	PURIFICATION.TESTING	0.00	2,300.00	4,121.00	4,121.00	0.00	0.00	0.00	100.00
F.8330.458	SUPPLIES								
F.8340.100	TRANS/DISTRIBUTION.PERS	2,509.80	48,704.00	48,704.00	20,705.03	27,998.97	0.00	27,998.97	42.51
F.8340.100	ONAL SERVICES								
F.8340.110	TRANS/DISTRIBUTION.OVER	58.29	3,000.00	3,000.00	729.40	2,270.60	0.00	2,270.60	24.31
F.8340.110	TIME								
F.8340.120	TRANS/DISTRIBUTION.DOUBL	116.36	600.00	600.00	277.32	322.68	0.00	322.68	46.22
F.8340.120	E TIME								
F.8340.200	CAPITAL	0.00	4,300.00	4,300.00	0.00	4,300.00	0.00	4,300.00	0.00
F.8340.200	EQUIPMENT								
F.8340.201	TRANS/DISTRIBUTION.OTHE	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F.8340.201	R EQUIPMENT								
F.8340.210	TRANS/DISTRIBUTION.CONT	0.00	0.00	0.00	0.00				

Date Prepared: 11/18/2020 10:23 AM

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Account Table: F

Alt. Sort Table:

VILLAGE OF GREENE

Expense Control Report

Fiscal Year: 2021 Period From: 1 To: 12

GLR0122 1.0

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Prepared By: TERESA

Account No.	Description	Curr. Month Total Expended	Original Budget	YTD Adjusted Budget	YTD Actual Expended	YTD Unexpended Balance	YTD Encumbered	YTD Available Balance	Percent Exp. Balance
Type E	Expense								
F.8340.210	TRACTOR SALES								
F.8340.227	CAPITAL EQUIP.TOOLS	0.00	1,900.00	1,900.00	0.00	1,900.00	0.00	1,900.00	0.00
F.8340.230	TRANS/DISTRIBUTION.- WATER RESEARCH- RESERVES	0.00	0.00	0.00	1,500.00	(1,500.00)	0.00	(1,500.00)	0.00
F.8340.240	TRANS/DISTRIBUTION.WATE R PERMITS	0.00	0.00	0.00	3,674.30	(3,674.30)	0.00	(3,674.30)	0.00
F.8340.250	CAPITAL EQUIP.WATER MAIN REPLACE	0.00	5,000.00	5,000.00	5,000.00	0.00	0.00	0.00	100.00
F.8340.262	CAPITAL EQUIP.PATCHING/PAVING	376.85	2,000.00	2,554.29	2,554.29	0.00	0.00	0.00	100.00
F.8340.270	CAPITAL EQUIP.HYDRANTS	0.00	7,000.00	6,445.71	640.54	5,805.17	0.00	5,805.17	9.94
F.8340.271	CAPITAL EQUIP.METERS	0.00	4,500.00	4,500.00	2,173.95	2,326.05	0.00	2,326.05	48.31
F.8340.419	TRANS/DISTRIBUTION.DUES/ TRAVEL	0.00	2,500.00	2,500.00	0.00	2,500.00	0.00	2,500.00	0.00
F.8340.421	TRANS/DISTRIBUTION.UNIFO RMS	0.00	625.00	625.00	0.00	625.00	0.00	625.00	0.00
F.8340.422	TRANS/DISTRIBUTION.REPAI RS	0.00	7,700.00	8,976.00	8,976.00	0.00	0.00	0.00	100.00
F.8340.430	TRANS/DISTRIBUTION.WELL MAINTENANCE	0.00	3,000.00	1,724.00	0.00	1,724.00	0.00	1,724.00	0.00
F.8340.455	TRANS/DISTRIBUTION.SUPPL IES	1,038.53	2,700.00	2,700.00	1,995.11	704.89	0.00	704.89	73.89
F.8340.465	TRANS/DISTRIBUTION.DUMP STER SERVICE	0.00	475.00	475.00	0.00	475.00	0.00	475.00	0.00
F.8340.472	TRANS/DISTRIBUTION.METE R REPAIRS	0.00	2,000.00	2,000.00	522.90	1,477.10	0.00	1,477.10	26.15
F.8340.490	TRANS/DISTRIBUTION.NEW SERVICE	0.00	500.00	500.00	0.00	500.00	0.00	500.00	0.00
F.8340.923	TRANS/DISTRIBUTION.WATE R MAIN REPLACE/REPAIR	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
F.9010.800	STATE RETIREMENT..	6,800.00	7,500.00	7,500.00	6,800.00	700.00	0.00	700.00	90.67
F.9030.800	SOCIAL SECURITY..	219.57	4,850.00	4,850.00	1,932.52	2,917.48	0.00	2,917.48	39.85
F.9035.800	MEDICARE..	51.37	1,150.00	1,150.00	452.07	697.93	0.00	697.93	39.31
F.9055.800	DISABILITY INSURANCE..	0.00	100.00	100.00	37.08	62.92	0.00	62.92	37.08
F.9060.800	HOSPITAL & MEDICAL INSURANCE..	0.00	27,500.00	27,500.00	12,050.15	15,449.85	0.00	15,449.85	43.82
F.9950.911	TRANS TO CAPITAL PROJECTS.TRUCKS	0.00	3,700.00	3,700.00	0.00	3,700.00	0.00	3,700.00	0.00
F.9950.912	TRANS TO CAPITAL.MINI EXCAVATOR	0.00	1,000.00	1,000.00	0.00	1,000.00	0.00	1,000.00	0.00
F.9950.913	TRANS TO CAPITAL.PRO RES COVER PL	0.00	1,100.00	1,100.00	0.00	1,100.00	0.00	1,100.00	0.00
F.9950.914	TRANS TO CAPITAL	0.00	3,000.00	3,000.00	0.00	3,000.00	0.00	3,000.00	0.00

Date Prepared: 11/18/2020 10:23 AM

Report Date: 11/18/2020

Account Table: F

Alt. Sort Table:

VILLAGE OF GREENE

Expense Control Report

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Prepared By: TERESA

Fiscal Year: 2021 Period From: 1 To: 12

Account No.	Description	Curr. Month Total Expended	Original Budget	YTD Adjusted Budget	YTD Actual Expended	YTD Unexpended Balance	YTD Encumbered	YTD Available Balance	Percent Exp. Balance
Type E	Expense								
F.9950.914	PROJ.WATER RES..								
F.9950.922	TRANS TO CAPITAL PROJ OTH EQUIPT..	0.00	3,000.00	3,000.00	0.00	3,000.00	0.00	3,000.00	0.00
F.9950.923	TRANS TO CAPITAL.WATER MAIN REPAIR/REPLACE	0.00	5,000.00	5,000.00	0.00	5,000.00	0.00	5,000.00	0.00
F.9950.925	TRANS TO CAPITAL.WATER PERMIT-SUSQUHANNA RIVER BASIN	0.00	9,711.00	9,711.00	0.00	9,711.00	0.00	9,711.00	0.00
F.9950.999	TRANS TO CAPITAL.TRANSFER OFFSET	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Grand Total		21,119.03	248,917.00	248,917.00	106,510.08	142,406.92	0.00	142,406.92	42.79

NOTE: One or more accounts may not be printed due to Account Table restrictions.

G. FIRE FLOW DATA

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Date	Asset Name	Address	City	Asset Type	Completed Work Order	Notes	Duration (r	Flow Rate (Static Pres:	Residual P	Turbidity (l
#####	S Chen 2 H	38 S Chena	Greene	Hydrant			10	1270	76	65
#####	Dav1h	2â€"10 Da	Greene	Hydrant			20	350	70	5
#####	Ry 2h Door	22 S Canal	Greene	Hydrant			3		72	
#####	Ry3h Door	22 S Canal	Greene	Hydrant			9		72	
#####	Ry4h Door	22 S Canal	Greene	Hydrant			3			74
#####	Ry6h Door	14 Wheele	Greene	Hydrant			3		73	
#####	Ry5h Door	1â€"29 Wt	Greene	Hydrant			2		74	
#####	Sc 2 H	23 S Canal	Greene	Hydrant			6	1115	72	50
#####	Ry1h Door	22 S Canal	Greene	Hydrant			13		72	
#####	Wtr2h	1â€"33 Wa	Greene	Hydrant			10	740	78	24
#####	Gen206 1	16 Genese	Greene	Hydrant			15	1150	73	52
#####		54 Genese	Greene	Hydrant			20	1150	70	52
#####	Gen206 3	72 Genese	Greene	Hydrant			15	1200	60	58
#####		1-Birdsall	S Greene	Hydrant			20	1200	76	67
#####	Jack 1 H	2 Jackson	S Greene	Hydrant			20	1300	76	67
#####	N C 1 H	5â€"11 N C	Greene	Hydrant			20	1300	72	65
#####	Bird1 H	13 Birdsall	Greene	Hydrant			20	1300	68	67
#####	N C 2 H	17 N Canal	Greene	Hydrant			20	1300	70	67
#####	N C 3 H	31 N Canal	Greene	Hydrant			20	1100	70	50
#####	Bird 2h	35 Birdsall	Greene	Hydrant			20	1270	68	65
#####		25 Birdsall	Greene	Hydrant			15	1000	70	40
#####	Cli	2-Clinton	S Greene	Hydrant			30	375	64	7
#####	1 Ch 1 H			Hydrant			20	1300	70	67
#####	Ch 2 H	40 N Chen	Greene	Hydrant			20	900	74	37
#####	N Ch 3 H	55 N Chen	Greene	Hydrant			20	400	76	7
#####	Dav2h	13 Davidso	Greene	Hydrant			20	300	70	2
#####	N C 5 H	109 N Can	Greene	Hydrant			20	350	70	5
#####	N Ch St Ext	150 N Chei	Greene	Hydrant			20	150	62	2
#####	Thd 3	28 Terrace	Greene	Hydrant			20	100	5	1
#####	Thd 2h	18 Terrace	Greene	Hydrant			20	500	60	10
#####	Grace 2h	98 Grace D	Greene	Hydrant			20	1100	47	47
#####	Grace 1h	8 Grace Dr	Greene	Hydrant			20	100	40	72
#####	Grand 1 H	14 Grand S	Greene	Hydrant			20	950	50	34

Date	Asset Name	Address	City	Asset Type	Completed	Work Order	Notes	Duration (r	Flow Rate	Static Pres	Residual P	Turbidity (l
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#####		2 Park St	Greene	Hydrant				20	350	40	5	
#####	Park St 1 H	13 Park St	Greene	Hydrant				20	350	60	5	
#####	Mdb2h	10 Meadow	Greene	Hydrant				20	500	15	10	
#####	Mdb1h	2118 Me	Greene	Hydrant				20	650	30	17	
#####	Gen206 5	1199 Ma	Greene	Hydrant				20	1300	70	67	
#####	Gen206 6	1123 G	Greene	Hydrant				30	1200	68	57	
#####	Mon 2 H	2098 M	Greene	Hydrant				20	1250	70	62	
#####	S C1 H	1018 S	Greene	Hydrant				20	750	70	35	
#####	S Chen 2 H	38 S Chena	Greene	Hydrant				20	1270	76	65	
#####	S Chen 3 H	56 S Chena	Greene	Hydrant				20	1325	74	70	
#####	S C 3 H	3345 S	Greene	Hydrant				20	1300	76	67	
#####	Great A 1	95 S Chena	Greene	Hydrant				20	800	76	27	
#####	74 S. Chen	91 S Chena	Greene	Hydrant				20	1225	68	61	
#####	S Chen 4 H	93 S Chena	Greene	Hydrant				20	1230	68	61	
#####	Great A 3	91 S Chena	Greene	Hydrant				20	650	76	17	
#####	S Chen Ext	137 S Chen	Greene	Hydrant				30	450	45	7	
#####	Rte 12 S 1	1341 State	Greene	Hydrant				30	300	45	3	
#####	Wash 1h	206/cherry St		Hydrant				20	1080	78	45	
#####	Wtr1h	12 Water St.		Hydrant				20	840	80	28	
#####	Wtr2h	133 Wa	Greene	Hydrant				20	740	78	24	
#####	Wtr3h	39 Water S	Greene	Hydrant				20	650	76	18	
#####	Cherry 4h	63495 Cl	Greene	Hydrant				30	980	83	37	
#####	Gre 2h	Greene St,	Greene	Hydrant				20	610	44	16	
#####	Jul32 2h	29 Juliad Hill		Hydrant				20	175	36	2.5	
#####	Jul32 1h	9 East Juliad Hill		Hydrant				20	350	39	7	
#####	Gen/206 3	Rt 206 Cemetery		Hydrant				20	450	39	8	
#####	Jf1	6 Jeffery Lane		Hydrant				20	500	40	10	
#####	Hydrant 3	Lions Park Lane		Hydrant				20	785	56	25	
#####	Hydrant 2	11 Rt 206/ Washington		Hydrant				20	960	68	35	
#####	Cherry 1h	24 Cherry St	Greene	Hydrant				20	1000	82	43	
#####				Hydrant				20		74		
#####		9 Cherry St	Greene	Hydrant				20	700	38	25	
#####	Green 1h	10 Green S	Greene	Hydrant				20	675	62	17	
#####	Jul32 3h	1463 Coun	Greene	Hydrant				20	0	30	0	

Date	Asset Nam	Address	City	Asset Type	Completed	Work Orde	Notes	Duration (r	Flow Rate	Static Pres	Residual P	Turbidity (I
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#####	Jul32 4h	1473 Coun	Greene	Hydrant				20	5	28	0	
#####	Crest 1h	123 Crestn	Greene	Hydrant				20	100	28	1	
#####	Turn 1h	125 Turner St.		Hydrant				0	50	30	0	
#####	Md 1h	103 Meadow rook		Hydrant				20	100	30	2	
#####	W J H 1 H	5â€"9 W J	Greene	Hydrant			Needs stea	20	975	62	37	
#####	Clint 1 H	18 Clinton	Greene	Hydrant				20	375	58	6	
#####	Mon 1 H	1â€"15 Mc	Greene	Hydrant				20	1250	78	63	
#####	S Chen 1 H	1â€"5 Four	Greene	Hydrant				20	1000	76	40	
#####		3 Foundry	Greene	Hydrant				20	1000	70	40	
#####	Frank1 H	8Willard St	Greene	Hydrant				20	500	74	10	
#####	Jack 1 H	2 Jackson S	Greene	Hydrant				20	1300	70	67	
#####	N C 1 H	5â€"11 N C	Greene	Hydrant				20	1300	74	63	
#####	Bird1 H	13 Birdsall	Greene	Hydrant								
#####		1-Birdsall S	Greene	Hydrant								
#####	N C 2 H	17 N Canal	Greene	Hydrant	Yes							
#####	N C 3 H	31 N Canal	Greene	Hydrant	Yes							
#####	Bird 2h	35 Birdsall	Greene	Hydrant	Yes							
#####	Cli	2-Clinton S	Greene	Hydrant	Yes							
#####	Clint 1 H	18 Clinton	Greene	Hydrant								
#####	Park St 1 H	13 Park Str	Greene	Hydrant	Yes							
#####	Grand 1 H	14 Grand S	Greene	Hydrant	Yes							
#####		2 Park Stre	Greene	Hydrant	Yes							
#####	N C 5 H	109 N Can:	Greene	Hydrant	Yes							
#####	N Ch St Ext	150 N Cher	Greene	Hydrant	Yes							
#####	N Ch 3 H	55 N Chen:	Greene	Hydrant								
#####	Ch 2 H	40 N Chen:	Greene	Hydrant								
#####	1 Ch 1 H			Hydrant								
#####	Gen206 1	16 Genese:	Greene	Hydrant	Yes			18.5		60	52	
#####		54 Genese:	Greene	Hydrant	Yes			5		70	52	
#####	Gen206 3	72 Genese:	Greene	Hydrant	Yes			5		70	58	
#####		1-Birdsall S	Greene	Hydrant	Yes			6		74	69	
#####	Bird1 H	13 Birdsall	Greene	Hydrant	Yes			5.5		74	67	
#####	N C 1 H	5â€"11 N C	Greene	Hydrant				5		74		
#####	Jack 1 H	2 Jackson S	Greene	Hydrant	Yes			5		70	67	

Date	Asset Nam	Address	City	Asset Type	Completed	Work Orde	Notes	Duration (r	Flow Rate	Static Pres	Residual Pi	Turbidity (l
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#####	1 Ch 1 H			Hydrant	Yes			14		70	67	
#####	N C 2 H	17 N Canal	Greene	Hydrant	Yes			5.5		70	67	
#####	N C 3 H	31 N Canal	Greene	Hydrant				5		74		
#####	Ch 2 H	40 N Chen	Greene	Hydrant	Yes			10		74	37	
#####	N Ch 3 H	55 N Chen	Greene	Hydrant	Yes			10		78	7	
#####	Dav1h	2â€10 Da	Greene	Hydrant	Yes			10		70	5	
#####	Dav2h	13 Davidso	Greene	Hydrant	Yes			9		70	2	
#####	Bird 2h	35 Birdsall	Greene	Hydrant				3.5		70		
#####	Cli	2-Clinton S	Greene	Hydrant				13		70		
#####	Clint 1 H	18 Clinton	Greene	Hydrant	Yes			7.5		56		
#####	Park St 1 H	13 Park Str	Greene	Hydrant				8		56		
#####	Park St Ext 2	Park Stre	Greene	Hydrant				5		45		
#####	Grand 1 H	14 Grand S	Greene	Hydrant				3		50		
#####	N C 5 H	109 N Can	Greene	Hydrant	Yes			7		72	5	
#####	N Ch St Ext	150 N Chei	Greene	Hydrant	Yes			10		68	2	
#####	N C 4 H	39 N Canal	Greene	Hydrant	Yes			10		70	37	
#####	H10	6 Terrace	Greene	Hydrant	Yes			5		20	5	
#####	Thd 2h	18 Terrace	Greene	Hydrant	Yes			2		18	10	
#####	Thd 3	28 Terrace	Greene	Hydrant				3		28	1	
#####	Mdbr2h	10 Meado	Greene	Hydrant	Yes			7		12	10	
#####	Mdbr 1h	2â€18 Me	Greene	Hydrant	Yes			7		20	17	
#####	Grace 2h	98 Grace D	Greene	Hydrant	Yes			5		47	47	
#####	Gen206 6	11â€23 G	Greene	Hydrant	Yes			5		78	57	
#####	Gen206 5	1â€99 Ma	Greene	Hydrant				5		70	67	
#####	Mon 1 H	1â€15 Mc	Greene	Hydrant	Yes			5		78	63	
#####	Mon 2 H	20â€98 M	Greene	Hydrant	Yes			5		70	62	
#####	Wtr1h	12 Water St.		Hydrant	Yes			5		20	27	
#####	Wtr2h	1â€33 Wa	Greene	Hydrant	Yes			5		78	24	
#####	Wtr3h	39 Water S	Greene	Hydrant	Yes			5		76	18	
#####	Wash 1h	206/cherry St		Hydrant	Yes			5		78	40	
#####	Hydrant 2	11 Rt 206/ Washington		Hydrant	Yes			5		68	35	
#####	Hydrant 3	Lions Park Lane		Hydrant	Yes			5		56	25	
#####	Jf1	6 Jeffery Lane		Hydrant	Yes			5		40	10	
#####	Gen/206 3	Rt 206 Cemetery		Hydrant	Yes			5		39	20	

Date	Asset Nam	Address	City	Asset Type	Completed	Work Orde	Notes	Duration (r	Flow Rate	Static Pres	Residual Pi	Turbidity (l
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#####	1 Ch 1 H			Hydrant	Yes			14		70	67	
#####	N C 2 H	17 N Canal	Greene	Hydrant	Yes			5.5		70	67	
#####	N C 3 H	31 N Canal	Greene	Hydrant				5		74		
#####	Ch 2 H	40 N Chen	Greene	Hydrant	Yes			10		74	37	
#####	N Ch 3 H	55 N Chen	Greene	Hydrant	Yes			10		78	7	
#####	Dav1h	2â€10 Da	Greene	Hydrant	Yes			10		70	5	
#####	Dav2h	13 Davidso	Greene	Hydrant	Yes			9		70	2	
#####	Bird 2h	35 Birdsall	Greene	Hydrant				3.5		70		
#####	Cli	2-Clinton S	Greene	Hydrant				13		70		
#####	Clint 1 H	18 Clinton	Greene	Hydrant	Yes			7.5		56		
#####	Park St 1 H	13 Park Str	Greene	Hydrant				8		56		
#####	Park St Ext 2	Park Stre	Greene	Hydrant				5		45		
#####	Grand 1 H	14 Grand S	Greene	Hydrant				3		50		
#####	N C 5 H	109 N Can	Greene	Hydrant	Yes			7		72	5	
#####	N Ch St Ext 150	N Chei	Greene	Hydrant	Yes			10		68	2	
#####	N C 4 H	39 N Canal	Greene	Hydrant	Yes			10		70	37	
#####	H10	6 Terrace	Greene	Hydrant	Yes			5		20	5	
#####	Thd 2h	18 Terrace	Greene	Hydrant	Yes			2		18	10	
#####	Thd 3	28 Terrace	Greene	Hydrant				3		28	1	
#####	Mdbr2h	10 Meado	Greene	Hydrant	Yes			7		12	10	
#####	Mdbr 1h	2â€18 Me	Greene	Hydrant	Yes			7		20	17	
#####	Grace 2h	98 Grace D	Greene	Hydrant	Yes			5		47	47	
#####	Gen206 6	11â€23 G	Greene	Hydrant	Yes			5		78	57	
#####	Gen206 5	1â€99 Ma	Greene	Hydrant				5		70	67	
#####	Mon 1 H	1â€15 Mc	Greene	Hydrant	Yes			5		78	63	
#####	Mon 2 H	20â€98 M	Greene	Hydrant	Yes			5		70	62	
#####	Wtr1h	12 Water St.		Hydrant	Yes			5		20	27	
#####	Wtr2h	1â€33 Wa	Greene	Hydrant	Yes			5		78	24	
#####	Wtr3h	39 Water S	Greene	Hydrant	Yes			5		76	18	
#####	Wash 1h	206/cherry St		Hydrant	Yes			5		78	40	
#####	Hydrant 2	11 Rt 206/ Washington		Hydrant	Yes			5		68	35	
#####	Hydrant 3	Lions Park Lane		Hydrant	Yes			5		56	25	
#####	Jf1	6 Jeffery Lane		Hydrant	Yes			5		40	10	
#####	Gen/206 3	Rt 206 Cemetery		Hydrant	Yes			5		39	20	

H. INTERMUNICIPAL AGREEMENTS

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CONTRACT: VILLAGE OF GREENE & TOWN OF GREENE

Re: WATER DISTRICT NO. 1

THIS AGREEMENT made this 15th day of May, 1981 between the VILLAGE OF GREENE, Chenango County, New York, party of the first part, and the TOWN OF GREENE, Chenango County, New York, party of the second part:

W I T N E S S E T H :

Pursuant to the provisions of a resolution of the Village Board of the Village of Greene, New York, duly passed on the 11th day of May, 1981 and pursuant to a resolution of the Town Board of the Town of Greene, New York, duly passed on the 15th day of April, 1981, and duly approved and signed by Emerson Barton, Supervisor of the Town of Greene, Chenango County, New York, the party of the first part, recognizing that the Town of Greene Water District No. 1, an improvement district created in accordance with the provisions of Section 190 of the Town Law of the State of New York, has no separate water supply, hereby agrees to furnish, supply and deliver to said party of the second part for and during the period of one (1) year from the 15th day of May, 1981, a supply of water for the use of said Town of Greene Water District No. 1 and its inhabitants, and for the use of such others living in the neighborhood of said water district, and said party of the second part hereby agrees to receive, distribute and pay for said supply of water under the terms and conditions hereinafter set forth.

1. That the parties hereto have installed a meter pit in the vicinity of the south boundary line of the Village of Greene where it crosses South Canal Street and the first party has furnished a water meter for installation, which meter is the property of the party of the first part. The second party agrees to pay to the party of the first part the sum of Ten Dollars (\$10.00) for each three month period for the use of said meter. The party of the first part, at its own cost, shall maintain and keep the meter in good repair, except that in the event of damage to the meter or its appurtenances by the agents, employees, or consumers of the Town of Greene or Town of Greene Water District No. 1, all expenses for the repair and reconditioning of said meter shall be borne by the party of the second part.

2. The party of the second part may enter into a contract or agreement for water service with its inhabitants and with other individuals outside the water district on such terms and conditions as it shall deem best, but any contract or agreement entered into with other individuals outside the Water District shall not be valid until they have been submitted to and approved by the party of the first part.

3. The expense of construction, installation and maintenance of mains, pipes, consumer meters and other appurtenances for the supplying of water to the water district and the expense of operation, superintendence, collection of charges for water service and other matters connected with the distribution of said water supply to the water district shall be borne by the party of the second part.

4. The party of the second part shall pay the party of the first part for such water supply at the same rates as established and charged Village residents per one thousand (1,000) gallons, based on the water use as determined by the master meter referred to in Section 1 above. Measurements or readings shall be taken by representatives of the party of the first part. Bills for water service shall be rendered the party of the second part by the party of the first part at three (3) month intervals and payment thereon shall be due and payable at the time they are rendered.

5. The party of the first part agrees to furnish said water supply to the party of the second part through the duration of this contract in quantities such as will provide for the use of the water for domestic purpose, mercantile use, and incidental fire protection. It is mutually understood that the consumption of water by the Water District will closely approximate a use of one hundred (100) gallons per capita per day for the resident population served by the Water District plus an allowance of four hundred (400) gallons per day for each mercantile establishment such as a food dispensing store, ice cream parlor, gasoline service station or garage. It is further mutually agreed that the water supplied by the party of the first part shall not be used for air conditioning, food processing or commercial operations.

6. The party of the first part shall be under no obligation to increase its own facilities and plant or to make any expenditures whatever for the

purpose of increasing its water supply in order to meet the needs of the party of the second part.

7. The party of the second part shall keep its water mains and appurtenances in good state of repair and shall promptly repair or cause to be repaired any leaks resulting from failure of appurtenances or breaks in the distribution piping. The party of the second part shall enact and enforce such rules and regulations as will require water consumers within the district to maintain their piping and facilities in a state of good repairs.

8. The party of the first part shall make every effort to secure to the party of the second part a safe, dependable water supply.

However, in the event of a break in the water mains or of a failure of the pumping equipment, power supply or any reason which will make it impossible for the party of the first part to supply water to the party of the second part, the party of the first part and its officials, employees and agents shall not be in any manner liable for any failure or inability on their part to furnish the party of the second part, its citizens or lessees a proper supply of water, or for any defect in the quality of the water supplied, nor for any damages arising from negligence, neglect, misfeasance or nonfeasance in the construction, maintenance and care of the water mains and appurtenances thereto outside the limits of the Village of Greene.

9. The party of the second part shall make and enforce from time to time such rules and regulations as are necessary or required to carry out conservation measures or restrictions on water use as may be promulgated by the party of the first part.

10. It is mutually agreed by both parties that the health and safety of the citizens of the communities constituting these parties is to be recognized in the carrying out of the provisions of this contract and its subsequent renewal.

11. It is further understood and agreed that the party of the first part makes no warranties whatsoever as to the condition or purity of the water supplied under this agreement.

IN WITNESS WHEREOF the said Village of Greene has caused its corporate

seal to be affixed hereto and these presents to be signed by Roy A. Fyfe, as Mayor, duly authorized to do so and to be attested by Herbert McKown, as Village Clerk, and the said Town of Greene has caused its corporate seal to be affixed hereto and these presents signed by Emerson Barton, Supervisor of said Town, duly authorized so to do and to be attested by Dorothy O'Connor, Town Clerk of said Town, the day and year first above written.

VILLAGE OF GREENE

by:

Mayor

Attest:

Herbert E. McKown
Village Clerk

TOWN OF GREENE

by:

Supervisor

Attest:

Dorothy W. O'Connor
Town Clerk

CONTRACT: VILLAGE OF GREENE & TOWN OF GREENE

Re: WATER DISTRICT NO. 2

THIS AGREEMENT made this 15th day of May, 1981, between the VILLAGE OF GREENE, Chenango County, New York, party of the first part, and the TOWN OF GREENE, Chenango County, New York, party of the second part.

W I T N E S S E T H :

Pursuant to the provisions of a resolution of the Village Board of the Village of Greene, New York, duly passed on the 11th day of MAY, 1981, and duly approved by the Mayor on the 11th day of MAY, 1981, and pursuant to a resolution of the Town Board of the Town of Greene, New York, duly passed on the 15th day of April, 1981, and duly approved and signed by Emerson Barton, Supervisor of the Town of Greene, Chenango County, New York, party of the first part, recognizing that the Town of Greene Water District No. 2, an improvement district created in accordance with the provisions of Section 190 of the Town Law of the State of New York, has no separate water supply, hereby agrees to furnish, supply and deliver to the said party of the second part for and during the period of one (1) year from the 15th day of May, 1981, a supply of water for the use of said Town of Greene Water District No. 2 and its inhabitants, and for the use of such others living in the neighborhood of said water district, and said party of the second part hereby agrees to receive, distribute and pay for said supply of water under the terms and conditions hereinafter set forth:

1. That second party hereto has installed a meter pit in the vicinity of the east boundary line of the Village of Greene where it crosses Crestmont Road, which meter is the property of the party of the second part. The party of the second part, at its own cost, shall maintain and keep the meter in good repair.

2. The party of the second part may enter into a contract or agreement for water service with its inhabitants and with other individuals outside the water district on such terms and conditions as it shall deem best, but any contract or agreement entered into with other individuals outside the Water

District shall be valid until it has been submitted and approved by the party of the first part.

3. The expense of construction, installation and maintenance of mains, pipes, consumer meters and other appurtenances for the supplying of water to the Water District and the expense of operation, superintendence, collection of water charges for water service and other matters connected with the distribution of said water supply to the Water District shall be borne by the party of the second part.

4. The party of the second part shall pay the party of the first part for such water supply at the same rates as established and charged Village residents per one thousand (1,000) gallons based on the water use as determined by the master meter referred to in Section 1 above. Measurements or readings shall be taken by representatives of the party of the first part. Bills for water service shall be rendered the party of the second part by the party of the first part at three (3) month intervals and payment thereon shall be due and payable at the time they are rendered.

5. The party of the first part agrees to furnish said water supply to the party of the second part throughout the duration of this contract in quantities such as will provide for the use of the water for domestic purposes, mercantile use and incidental fire protection. It is mutually understood that the consumption of water by the Water District will closely approximate a use of one hundred (100) gallons per capita per day for the resident population served by the Water District, plus an allowance of four hundred (400) gallons per day for each mercantile establishment such as food dispensing store, ice cream parlor, gasoline service station or garage. It is further mutually agreed that the water supplied by the party of the first part shall not be used for air conditioning, food processing or commercial operations.

6. The party of the first part shall be under no obligation to increase its own facilities and plant, or to make any expenditures whatever for the purpose of increasing its water supply in order to meet the needs of the party of the second part.

7. The party of the second part shall keep its water mains and appurtenances in good state of repair and shall promptly repair or cause to be repaired any leaks resulting from failure of appurtenances or breaks in the distribution piping. The party of the second part shall enact and enforce such rules and regulations as will require water consumers within the district to maintain their piping and facilities in a state of good repair.

8. The party of the first part shall make every effort to secure to the party of the second part a safe, dependable water supply.

However, in the event of a break in the water mains or a failure of the pumping equipment, power supply or any reason which will make it impossible for the party of the first part to supply water to the party of the second part, the party of the first part and its officials, employees and agents shall not be in any manner liable for any failure or inability on their part to furnish the party of the second part, its citizens or lessees a proper supply of water, or for any defect in the quality of the water supplied, nor for any damages arising from the negligence, neglect, misfeasance or nonfeasance in the construction, maintenance and care of the water mains and appurtenances thereto outside the limits of the Village of Greene.

9. The party of the second part shall make and enforce from time to time such rules and regulations as are necessary or required to carry out conservation measures or restrictions on water use as may be promulgated by the party of the first part.

10. It is mutually agreed by both parties that the health and safety of the citizens of the communities constituting these parties is to be recognized in the carrying out of the provisions of this contract and in its subsequent renewal.

11. It is further understood and agreed that the party of the first part makes no warranties whatsoever as to the condition or purity of the water supplied under this agreement.

IN WITNESS WHEREOF the said Village of Greene has caused its corporate

seal to be affixed hereto and these presents to be signed by Roy A. Fyfe, as Mayor, duly authorized so to do and to be attested by Herbert McKown, as Village Clerk, and the said Town of Greene has caused its corporate seal to be affixed hereto and these presents signed by Emerson Barton, Supervisor of the said Town, duly authorized so to do and to be attested by Dorothy O'Connor, Town Clerk of said Town, the day and year first above written.

VILLAGE OF GREENE

by:

Mayor

Attest:

Herbert E. McKown
Village Clerk

TOWN OF GREENE

by:

Supervisor

Attest:

Dorothy A. O'Connor
Town Clerk

CONTRACT FOR WATER SUPPLY

PARTIES:

The parties to this agreement are the VILLAGE OF GREENE, hereafter described as the VILLAGE and TOWN OF GREENE

WATER DISTRICT No. 3

here-

after described as the TOWN 3

ENABLING
LEGISLATION:

Village of Greene resolution passed the 9th day of February, 1987 agreeing to furnish, supply and deliver to Town 3 a supply of water. Town 3

resolution passed the 25th day of February 1987 agreeing to receive, distribute and pay for said supply of water and abide by this agreement.

AREA
COVERED:

Water District No.3 created in accordance with Section 190 of the Town Law and described on annexed map.

METER:

Village has furnished and installed a meter (location) east boundary line of Village and intersection of Juliand Street Village shall repair and maintain said meter at its own cost except that in the event of damage by the agents, employees or consumers of Town 3, all expenses for repair or reconditioning shall be borne by Town 3.

CONTRACTS:

Town 3 may enter into contracts for water service with inhabitants of the Water District, but any contracts with individuals outside Water District boundaries are subject to approval by Village.

EXPENSES:

The expense of construction, installation and maintenance of mains, pipes, consumer meters and other appurtenances for the supply of water to the Water District and the expense of operation, superintendence, collection of charges for water service and other matters connected with the distribution of said water supply to the Water District shall be borne by Town 3.

CONTRACT
RATES:

The Town 3 shall pay the Village for such water supply at the same rates as established and charged to water district/private contract residents per one thousand (1,000) gallons, based on the water use as determined by the master meter referred to in Paragraph "Meter" above. Measurements or readings shall be taken by representatives of the Village. Bills for water service shall be rendered the Town 3 by the Village at three (3) month intervals and payment thereon shall be due and payable at the time they are rendered.

WATER
QUANTITY:

The Village agrees to furnish said water supply to the Town 3 through the duration of this contract in quantities such as will provide for the use of the water for domestic purpose, mercantile use, and incidental fire protection. It is mutually understood that the consumption of water by the Water District will closely approximate a use of one hundred (100) gallons per capita per day for the resident population served by the Water District plus an allowance of six hundred (600) gallons per day for each mercantile establishment such as a restaurant, ice cream parlor, gasoline service station or garage. It is further mutually agreed that the water supplied by the Village shall not be used for food processing or commercial/industrial operations.

EXHAUSTION
OF SUPPLY:

The Village shall be under no obligation to increase its own facilities and plant or to make any expenditures whatever for the purpose of increasing its water supply in order to meet the needs of Town 3.

MAINTENANCE
OF LINES:

The Town 3 shall keep its water mains and appurtenances in good state of repair and shall promptly repair or cause to be repaired any leaks resulting from failure of appurtenances or breaks in the distribution piping. The Town 3

shall enact and enforce such rules and regulations as will require water consumers within the district to maintain their piping and facilities in a state of good repairs.

HOLD
HARMLESS:

The Village shall make every effort to secure to Town 3 a safe, dependable water supply. However, in the event of a break in the water mains or of a failure of the pumping equipment, power supply or any reason which will make it impossible for the Village to supply water to Town 3, the Village and its officials, employees and agents shall not be in any manner liable for any failure or inability on their part to furnish Town 3 its citizens or lessees a proper supply of water, or for any defect in the quality of the water supplied, nor for any damages arising from negligence, neglect, misfeasance or nonfeasance in the construction, maintenance and care of the water mains and appurtenances thereto outside the limits of the Village of Greene.

RESTRICTIONS
ON USE:

The Town 3 shall make and enforce from time to time such rules and regulations as are necessary or required to carry out conservation measures or restrictions on water use as may be promulgated by the Village.

MUTUAL
INTENT:

It is mutually agreed by both parties that the health and safety of the citizens of the communities constituting these parties is to be recognized in the carrying out of the provisions of this contract and its subsequent renewal.

WATER
PURITY:

It is further understood and agreed that the Village makes no warranties whatsoever as to the condition or purity of the water supplied under this agreement.

TERM OF
AGREEMENT:

This agreement shall be for a term of one (1) year and automatically renewable from year to year and may be terminated by either party giving six (6) months notice in writing to the other party.

IN WITNESS WHEREOF, the said Village of Greene has caused
its corporate seal to be affixed hereto and these presents to be signed by
Roy A. Fyfe as Mayor, duly authorized to do so and to be attested
by Herbert McKown, as Village Clerk, and the said Town of Greene
has caused its corporate seal to be affixed hereto and these presents signed
by Paul J. English, Supervisor of said Town, duly authorized so to do
and to be attested by Beatrice Lindblom, Town Clerk of said Town, on the
25th day of February, 1987.

VILLAGE OF GREENE

By: Roy A. Fyfe
Mayor

Attest:

Herbert E. McKown
Village Clerk

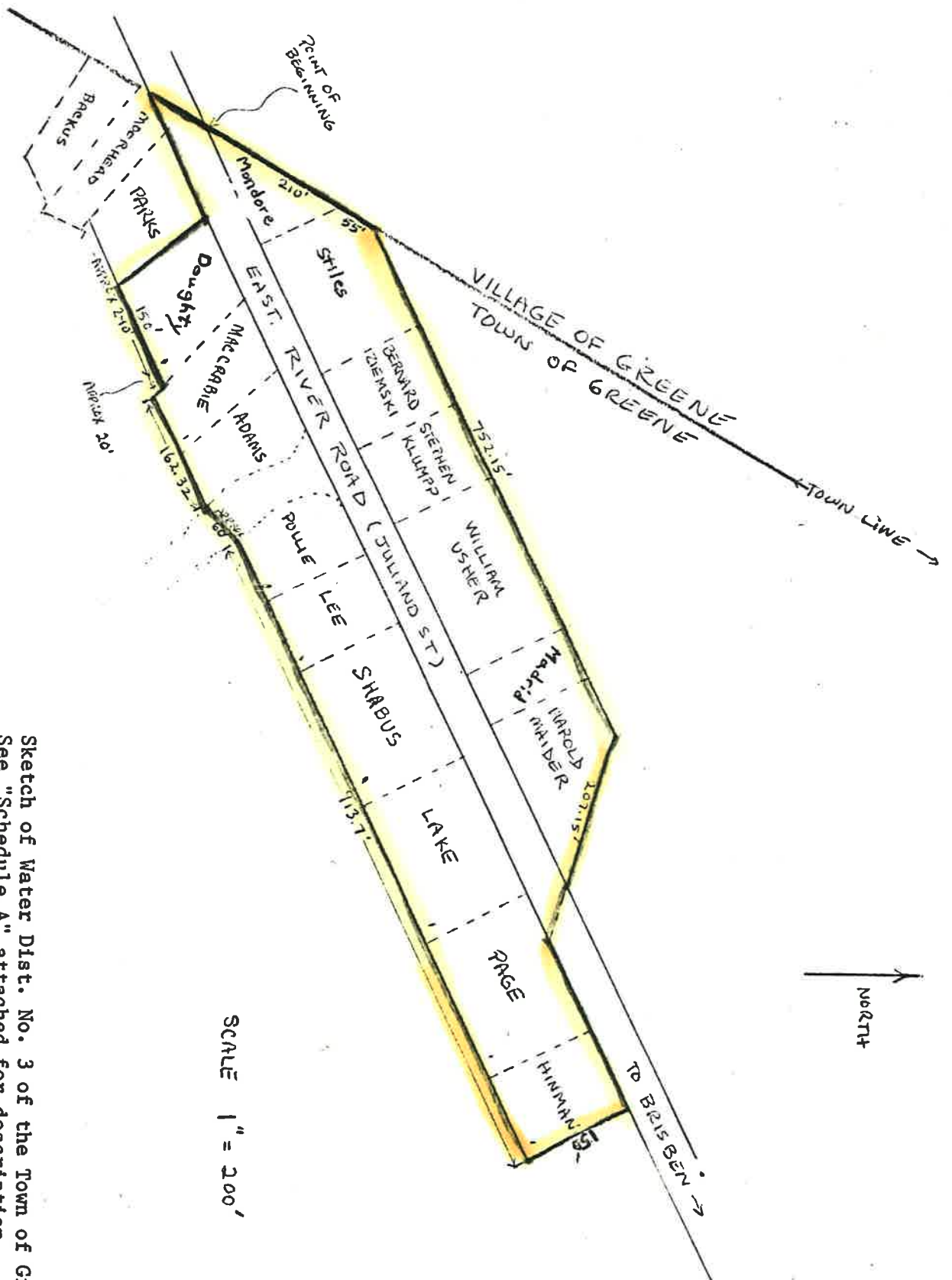
TOWN OF GREENE

By: Paul R. English
Supervisor

Attest:

Beatrice M. Lindblom
Town Clerk

Sketch of Water Dist. No. 3 of the Town of Greene
See "Schedule A" attached for description.



"SCHEDULE A"

ALL THAT TRACT OR PARCEL OF LAND situate in the Town of Greene, County of Chenango, and State of New York bounded and described as follows:

BEGINNING at a point in the northwesterly line of Juliand Street (also known as East River Road) at its intersection with the Village line of the Village of Greene, and running;

Thence northeasterly along said Village line through the lands of Harold Mondore, 210 feet more or less, but to the intersection of the Village line with the westerly line of the lands of Frank E. and Marguerite L. Stiles;

Thence continuing northeasterly along said Village line 55 feet more or less through the lands of Stiles but to the intersection of the Village line with the northerly lot line of said Stiles;

Thence North $64^{\circ} 5'$ East along the northerly lines of Stiles, Bernard Ziemski, Stephen Klump, William Usher, Ernesto Madrid and Harold Maider, 752.15 feet more or less, but to the westerly line of lands of the Greene Central School District No. 1 of the Towns of Greene, et al.;

Thence South $67^{\circ} 40'$ East along said Greene School District's westerly line 207.15 feet more or less, but to the northerly line of the East River Road;

Thence continuing South $67^{\circ} 40'$ East across said East River Road to the northerly line of the lands of William Page;

Thence easterly along the southerly boundary of East River Road and the northerly boundary of William Page to the intersection of the southerly boundary of East River Road with the northwest corner of the lands of Gordon Hinman;

Thence continuing easterly along the southerly line of East River Road and the northerly line of the lands of Gordon Hinman 123 feet more or less, but to the northeast corner of the lands of said Gordon Hinman;

Thence South $25^{\circ} 10'$ East 150 feet more or less, but to the stake in the southeast corner of Hinman;

Thence South $67^{\circ} 37'$ West along the southerly line of the lands of Gordon Hinman, William Page, Lawrence Lake, Florence Shabus, Leonard Lee and Michael Pollie, 913.17 feet more or less, but to a stake in the southwest corner of the lands of Michael Pollie;

Thence southwesterly 60 feet more or less, but to a stake in the southeast corner of the lands of Ivan Adams;

Thence South $64^{\circ} 5'$ West 162.32 feet more or less, but to a stake in the southwest corner of the lands of Blaine MacCrabie;

Thence North $46^{\circ} 41'$ West 20 feet more or less, but to a stake in the southeast corner of the lands of James E. Doughty;

Thence southwesterly along the southerly line of James E. Doughty, 150 feet more or less, but to the lands of Eugene Parks;

Thence northwesterly along the west line of James E. Doughty to the southerly line of East River Road;

Thence southwesterly along the southerly line of East River Road to the Village line;

Thence northeasterly along the Village line across East River Road 90 feet more or less, but to the point or place of beginning.

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I. NON-RESIDENTIAL EDUS

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VILLAGE OF GREENE
CHENANGO COUNTY, NEW YORK
WATER SYSTEM IMPROVEMENTS 2020

Tax ID	Owner	Street #	Street Name	Category	Apartment Units	Building Square Footage	EDU's	Site Property Class
236.12-1-10	Turner Mildred K	8	Grand St	Multi-Residential	4		4	411
236.12-1-2.22	Kutz William F	25	Clinton St Ext	Commercial		9100	1	484
236.12-1-5	Chenango Estates, Inc	2	Park St	Commercial				710
236.16-1-19.2	Woodside Manor Apartments I		Grace Dr	Multi-Residential				411
236.16-1-19.3	Woodside Manor Apartments II		Grace Dr	Multi-Residential				411
236.16-1-20	Village Of Greene			Municipal				822
236.16-1-41	Cook Brian J	5	Terrace Hill Dr	Multi-Residential				411
236.16-1-52	Village of Greene		Meadowbrook Ln	Municipal			0	822
236.16-2-11	SCF Realty Capital LLC	94	Genesee St	Commercial		2992	3	486
236.16-2-17.1	Chenango Housing Corp.	25	Birdsall St	Multi-Residential				411
236.16-2-17.22	UHS Hospitals, Inc.	15	Birdsall St	Institution		3758		465
236.16-2-23	Dodd Thomas E	47	Birdsall St	Industrial				710
236.16-2-3	Day Holdings, LLC	67	Genesee St	Multi-Residential				411
236.16-2-4	Sidney Federal Credit Union	65	Genesee St	Commercial		4234	4	462
236.16-3-12.2	Greene Emergency Squad	30	Birdsall St	Municipal				662
236.16-3-48	9 Jackson Street, LLC	9	Jackson St	Multi-Residential		4386	4	411
236.16-3-49	Frontier Communications Corp.	7	Jackson St	Utility				866
236.16-3-50	Browning Charles L	76	Genesee St	Multi-Residential	2	1101	1	483
236.16-3-53	Cerwinski Debra L	82	Genesee St	Commercial/Multi-Residential	2	1225	1	483
236.16-4-10.1	Marsalin Michael	72	Genesee St	Commercial		1292	1	483
236.16-4-10.2	Harrington Timothy S	70	Genesee St	Commercial/Multi-Residential	1	2160	2	481
236.16-4-11	North Canal Street, LLC	2	N Canal St	Commercial		900		484
236.16-4-13	Village of Greene		N Canal & Jackson St	Municipal				622
236.16-4-17	Van Voorhis Karen L	64	Genesee St	Commercial/Multi-Residential	2			481
236.16-4-18	Corey Carrie	68	Genesee St	Commercial		2156		481
236.16-4-22	Masonic Temple	9	N Chenango St	Institution		5964		534
236.16-4-24	Driscoll Ave Entrance		Driscoll Ave	-				438
236.16-4-25	Village of Greene		Driscoll Ave	Municipal				438
236.16-4-6.2	Beegan Catherine M	10	N Canal St	Commercial				465
236.2-1-1	Village of Greene		Wheeler St	Municipal				882
236.2-1-11	Moore Memorial Library	59	Genesee St	Municipal		8788		611
236.2-1-12	Moore Memorial Library		S Canal St	Municipal				438
236.2-1-2.21	The Raymond Corporation	10	Franklin St	Multi-Residential	8	8832		411
236.2-1-24.2	Simaar USA Corp	17	Willard St	Commercial		10364		710
236.2-1-41.1	Greene Central Schools	40	S Canal St	School				612
236.2-1-45.1	The Raymond Corporation	22	S Canal St	Industrial		580000		710
236.2-1-45.4	Village of Greene		Wheeler St	Municipal				872
236.2-2-10	Magro Greene Property, LLC	30	Genesee St	Commercial		6600		421

VILLAGE OF GREENE
CHENANGO COUNTY, NEW YORK
WATER SYSTEM IMPROVEMENTS 2020

236.2-2-11	Magro Greene Property, LLC	28	Genesee St	Commercial/Multi-Residential	1	5460	421
236.2-2-12	Redpath Richard H Jr	55-57	Genesee St	Commercial/Multi-Residential	1	11040	425
236.2-2-13.1	Town of Greene	51	Genesee St	Municipal		6750	652
236.2-2-13.2	Village Of Greene	49	Genesee St	Municipal			692
236.2-2-14	Village Of Greene	49	Genesee St	Municipal		11040	652
236.2-2-15	CGC Memorial Properties, LLC	47	Genesee St	Commercial/Multi-Residential	2	6720	481
236.2-2-16	Hollister Donald C	43-45	Genesee St	Commercial/Multi-Residential	6	10510	481
236.2-2-19	Heisler Frederick J	8	Matteson St	Commercial			449
236.2-2-2	Village of Greene		N Chenango St	Municipal			653
236.2-2-21	Billie Jean	2	Matteson St	Commercial/Multi-Residential	2	4644	481
236.2-2-22	Leede LLC	41	Genesee St	Commercial/Multi-Residential	2	4160	483
236.2-2-23	Scalici Susan D	37	Genesee St	Commercial/Multi-Residential	1	3791	483
236.2-2-24	27-35 Genesee St. LLC	27-31	Genesee St	Commercial (Hotel)	15	8722	481
236.2-2-26	25 Genesee Street LLC	25	Genesee St	Commercial (Hotel)	20	15706	414
236.2-2-27	Village of Greene		Matteson St	Municipal			438
236.2-2-28	Beegan Catherine M	2	S Chenango St	Commercial/Multi-Residential	1	2800	482
236.2-2-29	Day Holdings II LLC	10	S Chenango St	Commercial/Multi-Residential	1	6152	482
236.2-2-3	Parker Rental, LLC	62	Genesee St	Commercial/Multi-Residential	1	6480	482
236.2-2-30	Wheaton Curtis V	12	S Chenango St	Commercial/Multi-Residential	1	1560	483
236.2-2-35	18 South Chenango LLC	18	S Chenango St	Commercial		3180	432
236.2-2-36.1	Hollister Donald C	10	Matteson St	Commercial		2000	331
236.2-2-36.3	7 South Canal St LLC	7	S Canal St	Commercial		5970	452
236.2-2-36.4	M & M Roach LLC	3	Foundry St	Multi-Residential	7	7200	485
236.2-2-36.5	Pezzino Victoria P	9	S Canal St	Multi-Residential	1	1175	411
236.2-2-4	Koerts Stephen Arie	58	Genesee St	Commercial/Multi-Residential	1	6080	482
236.2-2-42	McDonald Joseph F		S Canal St	Municipal			652
236.2-2-44.2	Pezzino Carmine	13 1/2	S Canal St	Commercial/Multi-Residential	4	2600	485
236.2-2-45	Methodist Church	32-34	S Chenango St	Church		4953	620
236.2-2-5	RJW Sales, LLC	50	Genesee St	Commercial		4008	481
236.2-2-5.5	Catlin Sheila G	52-54	Genesee St	Commercial		4560	481
236.2-2-51	The Raymond Corporation	22	S Canal St	Industrial (Storage)		3225	710
236.2-2-6	Zhang A/K/A Tian Shuang	46	Genesee St	Commercial/Multi-Residential	6	7414	481
236.2-2-7	Maley Properties LLC	38	Genesee St	Commercial/Multi-Residential	1	7512	481
236.2-2-8	Larkin Maureen R	36	Genesee St	Commercial/Multi-Residential	1	3520	481
236.2-2-9	Najarian Cary C	32	Genesee St	Commercial/Multi-Residential	1	5610	481

VILLAGE OF GREENE
CHENANGO COUNTY, NEW YORK
WATER SYSTEM IMPROVEMENTS 2020

236.2-3-1	Portland Poynte LLC		5	S Chenango St	Commercial/Multi-Residential	1	5408		481
236.2-3-2	M & S Associates, LLC	13-17		Genesee St	Multi-Residential	10	12476		482
236.2-3-24	Baptist Church		37	S Chenango St	Church		10144		620
236.2-3-26	Greene Grange No. 1413		18	Monell St	Commercial		2554		534
236.2-3-28.1	Gifford Charles R		7	Monell St	Multi-Residential	2	3700		411
236.2-3-36	Hanrahan Kevin C		12	Mill St	Industrial (Storage)		2100		446
236.2-3-5	Centerwall Graham N		7	S Chenango St	Commercial/Multi-Residential	1	4118		483
236.2-3-6	Lange Michael J		9	S Chenango St	Commercial/Multi-Residential	2	3102		483
237.13-1-38	Greene Community Services Inc		29	N Chenango St	Institution		5198		642
237.13-1-41	Dietrich Charles C III		23	N Chenango St	Commercial/Multi-Residential	1	4900		471
237.13-1-47	Cemetery			N Canal St	Cemetery				695
237.13-1-49	Widrick Darryl		32	N Canal St	Commercial		1360		484
237.13-1-57	Motell Ashley L		21	N Chenango St	Institution		3200		471
237.13-1-6	Maddaloni Christopher P		39	N Canal St	Multi-Residential	4	2400		411
237.13-1-62	French Jared B		13	N Chenango St	Multi-Residential	4	3312		411
237.13-1-7	M & S Associates, LLC		37	N Canal St	Multi-Residential	4	3080		411
237.13-2-1	Town of Greene		2	Ball Flats Ln	Municipal		1872		615
237.13-2-10	Congregational Church		28	N Chenango St	Church		7835		620
237.13-2-11	Congregational Church		30	N Chenango St	Church		2736		620
237.13-2-2	Fertig Susan S		14	N Chenango St	Commercial/Multi-Residential	1	3308		465
237.13-2-22.1	Village of Greene			Cherry St	Municipal				330
237.13-2-22.2	Chenango Valley Processors In		51	Cherry St	Industrial				710
237.13-2-23	Greene Central Schools			County Road 32	School				612
237.13-2-25	Village of Greene			Cherry St	Municipal				882
237.13-2-26	Village of Greene			Cherry St	Municipal				882
237.13-2-27	Village of Greene			Cherry St	Municipal		1950		651
237.13-2-28	NYSEG		28	Cherry St	Utility				872
237.13-2-29	D'Anconia Realty, LLC		24	Cherry St	Utility				862
237.13-2-30	D'Anconia Realty, LLC		24	Cherry St	Industrial		6408		714
237.13-2-4	Edmonds Martha J		18 1/2	N Chenango St	Commercial		2800		484
237.13-2-9.1	First Congregational Church		28	N Chenango St	Church				620
237.17-1-1	Episcopal Church		10	N Chenango St	Church		11564		620
237.17-1-14	Pixley Wanda J		9	Cherry St	Commercial/Multi-Residential	1	1200		465
237.17-1-15	Mirabito Fuel Group		13	Cherry St	Commercial		1088		441
237.17-1-16	Mirabito Fuel Group		13	Cherry St	Commercial		1360		441
237.17-1-17.1	The Page Seed Co			Cherry St	Industrial		67160		710
237.17-1-18.1	7 Cherry Lane LLC		7	Cherry Ln	Commercial		16610		449
237.17-1-18.2	The Page Seed Co	1A		Green St	Industrial				330

VILLAGE OF GREENE
CHENANGO COUNTY, NEW YORK
WATER SYSTEM IMPROVEMENTS 2020

237.17-1-2	Episcopal Church	10	N Chenango St	Church				620
237.17-1-39	D M D Green St. LLC	2	Green St	Commercial		9405		710
237.17-1-4.1	CRE JV Mixed Five NY3 Branch Holdings LLC	26	N Chenango St	-				438
237.17-1-5	CRE JV Mixed Five NY3 Branch Holdings LLC		N Chenango St	Commercial		7280		463
237.17-1-54	Sylvan Lawn Cem		Juliaand St	Cemetery				695
237.17-1-6	Pilkington John T Jr	16	Genesee St	Commercial/Multi-Residential	3	7193		481
237.17-1-63.2	4 Cherry Street LLC	4	Cherry St	Commercial		5500		465
237.17-2-11.2	Pilkington John T Jr.	2	Washington St	Multi-Residential	4	3996		411
237.17-2-12	AZTEC425 LLC	4	Washington St	Commercial		3848		464
237.17-2-13	Boudreau Robert	3	Water St	Commercial		2706		421
237.17-2-39	Immaculate Conception Church		Coventry Rd (Rear)	Church		2800		620
237.17-2-40.31	Jesus Christ Of Latter	1	Lions Park Ln	Church		41000		620
247.08-1-12.1	Chenango Sales Inc.	91	S Chenango St	Multi-Residential		2100		416
247.08-1-12.2	Noelle Taylor K	91	S Chenango St	Multi-Residential	5	4174		411
247.08-1-13	Greene Bowlodrome, Inc.	93	S Chenango St	Commercial		6570		541
247.08-1-17	Ray William J	39	Water St	Commercial		1400		446
247.08-1-20	Pilkington Ellen M		Water St	Commercial		1205		441
247.08-1-21	Pilkington Ellen M		Water St	Commercial		2432		441
247.08-1-22	Village Of Greene	29	Water St	Municipal		1080		853
247.08-1-3	Chenango Sales Inc.	76	S Chenango St	Commercial		600		446
248.05-1-1.1	Greene Lions Club, Inc.		Washington (Rear) St	Municipal				341
248.05-1-1.4	Greene Lions Club, Inc.		Washington (Rear) St	Municipal				837
999.99-6-3	Frontier Communications Corp.		N Canal St	Utility				866

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J. CAPACITY DEVELOPMENT FORM

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CAPACITY DEVELOPMENT PROGRAM

TECHNICAL, MANAGERIAL, AND FINANCIAL EVALUATION CRITERIA FOR: COMMUNITY PUBLIC WATER SYSTEMS

SYSTEM NAME:

Village of Greene

COUNTY: Chenango

PWSID #: NY0801740

COMPLETED BY: _____

DATE: _____

Technical Capacity

A. System Infrastructure

1. Does the system have as-built plans, drawings, or maps of its facilities including source, treatment, storage, and distribution?

☒

Yes

☐

No

☐

Not Applicable

If the system lacks certain plans, please specify:

Information is only available for the more recently installed water mains

2. Does the system have exact location measurements of all main valves and service shut-offs?

☐

Yes

☒

No

☐

Not Applicable

3. Can the system's pumping, storage and distribution facilities meet current normal and peak demands and required distribution pressures?

☐

Yes

☒

No

☐

Not Applicable

4. Does the system have a water conservation plan?

☐

Yes

☐

No

☐

Not Applicable

5. Are all customers on the water system metered?

☐

Yes

☒

No

☐

Not Applicable

6. Is the system equipped with "master" meters that measure the amount of water the system produces or purchases for each source of water?

☒

Yes

☐

No

☐

Not Applicable

B. Source Water Evaluation

1. Does the system have a copy of its Source Water Assessment?

☒

Yes

☐

No

☐

Not Applicable

2. Has a yield analysis been done for the system's source?

☐

Yes

☐

No

☐

Not Applicable

3. Does the system have a description of the existing source-pumping capacity and the system's raw and finished water storage capacity?

☒

Yes

☐

No

☐

Not Applicable

4. For groundwater systems, does your system have a wellhead protection program in place?

☐

Yes

☐

No

☐

Not Applicable

C. Technical Knowledge

1. Has an evaluation of the water system facilities been conducted with respect to its ability to reliably meet current and proposed State and Federal drinking water regulations?

☐

Yes

☐

No

☐

Not Applicable

If system can't meet regulations, please specify:

2. Does the system have monthly water production records or treatment records that show daily and monthly water production for each source used by the system?

☒

Yes

☐

No

☐

Not Applicable

3. Has an evaluation been conducted to document the condition and remaining service life of existing facilities?

☐

Yes

☐

No

☐

Not Applicable

4. Has the system been cited within the past two years for failing to sample and report test results?

☐

Yes

☒

No

☐

Not Applicable

5. Has the system been cited within the past two years for operating deficiencies as a result of a sanitary survey or other inspection conducted by the DOH?

☐

Yes

☒

No

☐

Not Applicable

6. If you answered "Yes" to Questions 4 or 5, has corrective action been taken to correct all deficiencies?

☐

Yes

☐

No

☐

Not Applicable

D. Certified Operators

1. Does the water system have a certified water operator(s) and designated an operator in responsible charge?

☒

Yes

☐

No

2. If the water system does not have a state-certified water treatment operator, or lacks the necessary number of operators to safely and reliably operate the system, does the system have a plan to acquire the services of a (additional) state-certified operator?

☐

Yes

☐

No

☒

Not Applicable

Managerial Capacity

A. Staffing and Organization

1. What type of training/continuing education did system personnel attend within the last two years (please specify)?

2. Who is responsible for policy and operational decisions for the water system (*name and title*)?

3. Who is responsible for ensuring compliance with state regulatory requirements (*name and title*)?

4. Who is responsible for approving expenditures (*name and title*)?

5. *For systems that contract for system operation or management:* Does the system have a valid (signed) contract that summarizes the duties and responsibilities the contractor must provide to the system?

☐

Yes

☐

No

☒

Not Applicable

B. Ownership

1. *If the system is under temporary ownership*, has a future owner been found for the water system?

☐

Yes

☐

No

☒

Not Applicable

If "Yes", who will the future owner be?

2. *For systems that use, but do not own, land or facilities that are essential to water system operation*: Is there a valid long-term contract (i.e., lease) between the water system and the owner of the land or facilities essential to the operation of the system?

☐

Yes

☐

No

☒

Not Applicable

3. *For systems with a single proprietor*: Does the system have a contingency plan for continuing system operation in the event the owner becomes incapable of carrying out his/her responsibilities?

☐

Yes

☐

No

☒

Not Applicable

C. Consolidation/Restructuring

1. Has the system examined the feasibility of:
- a) Incorporating with an existing water system in the immediate proximity?

☐

Yes

☐

No

☒

Not Applicable

- b) Selling ownership to an existing water system?

☐

Yes

☐

No

☒

Not Applicable

- c) Contracting for the management or operation of the system with an existing system or satellite management/operations agency?

☐

Yes

☐

No

☒

Not Applicable

D. Emergency/Disaster Response Plans

1. Has the system developed an Emergency Response Plan?

☐

Yes

☐

No

☐

Not Applicable

2. Does the Emergency Response Plan:

- a) Designate responsible personnel in the event of an emergency?

☐

Yes

☐

No

☐

Not Applicable

b) Provide for emergency phone and radio capabilities?

☐

Yes

☐

No

☐

Not Applicable

c) Describe public and health department notification procedures?

☐

Yes

☐

No

☐

Not Applicable

3. Does the system have any emergency contract agreements under which it operates (e.g., emergency water interconnections and alternative sources)?

☐

Yes

☐

No

☐

Not Applicable

E. Water System Policies

1. Does the system have a *written* System Operations Manual or Policy?

☐

Yes

☐

No

☐

Not Applicable

F. Record Keeping

1. Does the system keep water utility records including: financial, regulatory, facility, operations and maintenance, data quality, Annual Water Quality Reports, and correspondence with the NYS Department of Health and/or local Health Departments (and where appropriate, the NYSPSC)?

☒

Yes

☐

No

☐

Not Applicable

Financial Capacity

A. Budget Projection – Revenues and Expenses

1. Does the system have a water budget?

☒

Yes

☐

No

☐

Not Applicable

2. Are the system's annual water revenues sufficient to cover the annual water expenses as well as anticipated capital improvements?

☒

Yes

☐

No

☐

Not Applicable

3. Are the system's water rates, when combined with other revenue sources, sufficient to cover all listed expenditures for the water system?

☒

Yes

☐

No

☐

Not Applicable

4. Does the system retain budget information for at least two years?

☒

Yes

☐

No

☐

Not Applicable

B. Reserves

1. Does the system have a reserve account (or funds within a reserve account) dedicated to:

a) Financing the emergency replacement of critical facilities in the event of their failure?

☐

Yes

☐

No

☐

Not Applicable

b) The maintenance of cash flow in the event of an unexpected funding shortfall?

☐

Yes

☐

No

☐

Not Applicable

2. If the system has a reserve account, how does it determine the amount to put into the account?

____ Fixed Amount ____ Percentage of Revenues ____ Percentage of Expenses

____ Other (please specify) _____

3. If the system has a reserve account, what type(s) of reserve account(s) does it have?

____ Operation and Maintenance ____ Capital Projects ____ Debt Service

____ Other (please specify) _____

C. Capital Improvement Plan

1. How do you finance operation and maintenance costs (Check all that apply)?

☒ Rates collected from ratepayers

____ Rental fees

____ Other business revenue

____ Personal capital

☒ Surcharges

____ Reserve account

____ Other (Please specify) _____

2. How did you finance your LAST major repair or improvement?

____ Commercial bank loan

____ Bonds

____ DWSRF

____ Other State or federal loan/grant program

____ Surcharge

____ Personal Capital

____ Reserve Account

____ Revenue from other business

____ Other (Please specify) _____

3. What options do you have for financing your NEXT major repair or improvement?

<input type="checkbox"/> Commercial bank loan	<input type="checkbox"/> Bonds
<input checked="" type="checkbox"/> DWSRF	<input checked="" type="checkbox"/> Other State or federal loan/grant program
<input type="checkbox"/> Surcharge	<input type="checkbox"/> Personal Capital
<input type="checkbox"/> Reserve Account	<input type="checkbox"/> Revenue from other business
<input type="checkbox"/> Other (Please specify) _____	

D. Water System Rates

1. Does the water system management review user fee, user charge, or rate system at least once every two years?

☒ Yes ☐ No ☐ Not Applicable

2. What is the frequency of billing (e.g., 12, 6, or 4 times per/year)? 12 times/year

3. Where applicable, what are the system's water rates?

See Attached

4. What are rates based on?

☐ Capital Improvement Plan and Annual Budget
☒ Annual Budget Only
☐ Cash on Hand
☐ Last year's expenses
☐ Not sure
☐ Other (Please specify _____)

5. What was the date of the last rate increase? -

END OF DOCUMENT

Current water rates

WATER/SEWER RATES – JUNE 1, 2017

JUNE 1, 2017 CURRENT RATES	
Inside Village	
Meter Charge	\$3.50 per month
Minimum Usage	\$8.20
Per Thousand	\$3.00 from 3,001 to 10,000
	\$3.10 from 10,001 to 20,000
	\$3.20 over 20,000
Sewer	water billing plus 75%

Outside Village	
Meter Charge	\$3.50 per month
Minimum Usage	\$9.80
Per Thousand	\$3.75 from 3,001 to 10,000
	\$3.85 from 10,001 to 20,000
	\$3.95 over 20,000

Water Districts	
Meter Charge	\$3.50 per month
Minimum Usage	\$9.80
Per Thousand	\$3.75 from 3,001 to 10,000
	\$3.85 from 10,001 to 20,000
	\$3.95 over 20,000
Sewer	Water billing plus 75%

Non Metered Inside Village	\$18.10
Non Metered Outside Village	\$26.00
Multiple Unit Surcharge	\$1.50 per unit
Sprinkler Charge	\$10.00 per unit

CONTRACTOR RATES	\$4.10 PER THOUSAND
Effective 7/13/2020	

Please contact the Village Office at 656-4500 if you have any questions.

K. SMART GROWTH ASSESSMENT

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Smart Growth Assessment Form

This form should be completed by an authorized representative of the applicant, preferably the project engineer or other design professional.¹

Section 1 – General Applicant and Project Information

Applicant:

Project No.:

Project Name:

Is project construction complete? ☐ Yes, date:

☐ No

Please provide a brief project summary in plain language including the location of the area the project serves:

Section 2 – Screening Questions

A. Prior Approvals

1. Has the project been previously approved for Environmental Facilities Corporation (EFC) financial assistance? ☐ Yes ☐ No
2. If yes to A(1), what is the project number(s) for the prior approval(s)? Project No.:
3. If yes to A(1), is the scope of the previously-approved project substantially the same as the current project? ☐ Yes ☐ No

If your responses to A(1) and A(3) are both yes, please proceed to Section 5, Signature.

B. New or Expanded Infrastructure

1. Does the project involve the construction or reconstruction of new or expanded infrastructure? ☐ Yes ☐ No

Examples of new or expanded infrastructure include, but are not limited to:

- (i) The addition of new wastewater collection/new water mains or a new wastewater treatment system/water treatment plant where none existed previously;
- (ii) An increase of the State Pollutant Discharge Elimination System (SPDES) permitted flow capacity for an existing wastewater treatment system; and OR

¹ If project construction is complete and the project was not previously financed through EFC, an authorized municipal representative may complete and sign this assessment.

- (iii) An increase of the permitted water withdrawal or the permitted flow capacity for the water treatment system such that a Department of Environmental Conservation (DEC) water withdrawal permit will need to be obtained or modified, or result in the Department of Health (DOH) approving an increase in the capacity of the water treatment plant.

If your response to B(1) is no, please proceed to Section 5, Signature.

Section 3 –Smart Growth Criteria

Your project must be consistent with all relevant Smart Growth criteria. For each question below please provide a response and explanation.

1. Does the project use, maintain, or improve existing infrastructure?

☐ Yes ☐ No

Explain your response:

2. Is the project located in a (1) municipal center, (2) area adjacent to a municipal center, or (3) area designated as a future municipal center, as such terms are defined herein (please select one response)?

☐ Yes, my project is located in a municipal center, which is an area of concentrated and mixed land uses that serves as a center for various activities, including but not limited to: central business districts, main streets, downtown areas, brownfield opportunity areas (see www.dos.ny.gov for more information), downtown areas of local waterfront revitalization program areas (see www.dos.ny.gov for more information), areas of transit-oriented development, environmental justice areas (see www.dec.ny.gov/public/899.html for more information), and hardship areas (projects that primarily serve census tracts or block numbering areas with a poverty rate of at least twenty percent according to the latest census data).

☐ Yes, my project is located in an area adjacent to a municipal center which has clearly defined borders, is designated for concentrated development in the future in a municipal or regional comprehensive plan, and exhibits strong land use, transportation, infrastructure, and economic connections to an existing municipal center.

☐ Yes, my project is located in an area designated as a future municipal center in a municipal or comprehensive plan and is appropriately zoned in a municipal zoning ordinance

☐ No, my project is not located in a (1) municipal center, (2) area adjacent to a municipal center, or (3) area designated as a future municipal center.

Explain your response and reference any applicable plans:

3. Is the project located in a developed area or an area designated for concentrated infill development in a municipally-approved comprehensive land use plan, local waterfront revitalization plan, and/or brownfield opportunity area plan?

☐Yes ☐No

Explain your response and reference any applicable plans:

4. Does the project protect, preserve, and enhance the State's resources, including surface and groundwater, agricultural land, forests, air quality, recreation and open space, scenic areas, and significant historic and archaeological resources?

☐Yes ☐No

Explain your response:

5. Does the project foster mixed land uses and compact development, downtown revitalization, brownfield redevelopment, the enhancement of beauty in public spaces, the diversity and affordability of housing in proximity to places of employment, recreation and commercial development, and the integration of all income and age groups?

☐Yes ☐No

Explain your response:

6. Does the project provide mobility through transportation choices including improved public transportation and reduced automobile dependency?

☐Yes ☐No ☐N/A

Explain your response:

7. Does the project involve coordination between State and local government, intermunicipal planning, or regional planning?

☐Yes ☐No

Explain your response and reference any applicable plans:

8. Does the project involve community-based planning and collaboration?

☐Yes ☐No

Explain your response and reference any applicable plans:

9. Does the project support predictability in building and land use codes?

☐Yes ☐No ☐N/A

Explain your response:

10. Does the project promote sustainability by adopting measures such as green infrastructure techniques, decentralized infrastructure techniques, or energy efficiency measures?

☐Yes ☐No

Explain your response and reference any applicable plans:

11. Does the project mitigate future physical climate risk due to sea-level rise, storm surges, and/or flooding, based on available data predicting the likelihood of future extreme weather events, including hazard risk analysis data, if applicable?

☐Yes ☐No

Explain your response and reference any applicable plans:

Section 4 – Miscellaneous

1. Is the project expressly required by a court or administrative consent order? ☐ Yes ☐ No

If yes, and you have not previously provided the applicable order to EFC/DOH, please submit it with this form.

Section 5 – Signature

By signing below, you agree that you are authorized to act on behalf of the applicant and that the information contained in this Smart Growth Assessment is true, correct and complete to the best of your knowledge and belief.

Applicant:	Phone Number:
Name and Title of Signatory:	
Signature:	Date:

L. PRELIMINARY OPINIONS OF COST

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PRELIMINARY OPINION OF COST
DISTRIBUTION SYSTEM IMPROVEMENTS

Item	Quantity	Unit Cost (\$)	Total (\$)
Distribution Improvements			
12" Ductile Iron Pipe (CL 52)	2,200	155 /LF	341,000
8" Ductile Iron Pipe (CL 52)	40,000	125 /LF	5,000,000
6" Ductile Iron Pipe (CL 52)	5,500	100 /LF	550,000
10" HDPE	1,050	350 /LF	367,500
12" Gate Valves	5	5,000 /EA	25,000
8" Gate Valves	40	3,000 /EA	120,000
6" Gate Valves	21	2,000 /EA	42,000
Hydrants	62	5,000 /EA	310,000
Select Bedding/Backfill Material	18,700	30 /CY	561,000
Subbase Material Type 1	9,300	50 /CY	465,000
Asphalt Binder Course	38,500	35 /SY	1,347,500
Asphalt Top Course	38,500	20 /SY	770,000
House Services	560	2,000 /EA	1,120,000
Sidewalk Replacement	15,000	92 LF	1,380,000
Curb Stops	560	600 /EA	336,000
Pipe Abandonment	45,500	1 /LF	45,500
Rock Excavation*	500	175 /CY	87,500
Generator	1	75,000 /EA	75,000
Maintenance & Protection of Traffic	1	120,000 LS	120,000
Sub-Total Distribution			13,063,000
Booster Station Improvements			
Booster Station	1	100,000 /EA	100,000
8" Ductile Iron Pipe (CL 52)	1,500	125 /LF	187,500
Tank	1	300,000 /EA	300,000
Site Work	1	65,000 LS	65,000
Access Road	350	50 /LF	17,500
Electrical	1	100,000 LS	100,000
Generator	1	55,000 LS	55,000
Sub-Total Booster Pump			825,000
Chlorination Improvements			
Building Improvements	1	25,000 LS	25,000
8" Ductile Iron Pipe (CL 52)	650	125 /LF	81,250
36" Ductile Iron Pipe (CL 52)	60	450 /LF	27,000
3/4" sampling line	150	15 /LF	2,250
Chlorination Equipment	1	45,000 LS	45,000
Electrical	1	40,000 LS	40,000
Sub-Total Chlorination Improvements			220,500
Subtotal Construction			14,108,500
Contingency - 30%			3,918,900
Legal (Local & Bond)			50,000
Land Acquisition			50,000
Survey & Mapping			225,000
Soil Borings & Analysis			60,000
Permitting			15,000
Engineering			980,000
Construction Administration			120,000
Construction Observation			400,000
Grant Administration			30,000
Environmental			10,000
TOTAL			19,967,400
	SAY		\$19,970,000
* No data is available at this time to estimate the volume of rock removal required. The estimate provided is strictly a place holder.			

Village of Greene
Chenango County, New York
WATER SYSTEM IMPROVEMENTS

FINANCING SCENARIOS
April 2022

	NO FUNDING ASSISTANCE			CDBG ASSISTANCE ONLY			NY WATER GRANT ONLY				NYWATER & CDBG GRANT	
LOAN TERM	20	30		20	30		20	30	30		20	30
LOAN RATE	4.00%	4.00%		4.00%	4.00%		4.00%	4.00%	0.00%		0.00%	0.00%
PROJECT COST	\$19,720,000	\$19,720,000		\$19,720,000	\$19,720,000		\$19,720,000	\$19,720,000	\$19,720,000		\$19,720,000	\$19,720,000
NY WATER GRANT	\$0	\$0		\$0	\$0		\$3,000,000	\$3,000,000	\$3,000,000		\$3,000,000	\$3,000,000
CDBG GRANT	\$0	\$0		\$1,000,000	\$1,000,000		\$0	\$0	\$0		\$1,000,000	\$1,000,000
LOCAL SHARE	\$19,720,000	\$19,720,000		\$18,720,000	\$18,720,000		\$16,720,000	\$16,720,000	\$16,720,000		\$15,720,000	\$15,720,000
ANNUAL DEBT SERVICE	\$1,451,032.12	\$1,140,409.55		\$1,377,450.37	\$1,082,579.46		\$1,230,286.87	\$966,919.26	\$557,333.33		\$786,000.00	\$524,000.00
SYSTEM EDUS	1048.5	1048.5		1048.5	1048.5		1048.5	1048.5	1048.5		1048.5	1048.5
DEBT SERVICE/EDU	\$1,383.91	\$1,087.66		\$1,313.73	\$1,032.50		\$1,173.38	\$922.19	\$531.55		\$749.64	\$499.76