Dear Mayor DeStefano,

We are happy to submit the 2015 DPW annual Report for your use. The report consists of four parts; three of them are attachments consisting of the Street and Sanitation Department report by Deputy Commissioner Hendrickson, Water and Sewer Department by Deputy Commissioner Christopher Gross, P.E., and Code Enforcement and Building Inspector reports. The fourth section consists of the following:

The Mission of DPW for year 2015, was to continue the Recovery from Tropical Storms Irene and Lee Devastation, Improve Quality of life to our Residents, Continue to Invest and Upgrade city infrastructure to attract businesses and residents, leverage our infrastructure facilities and capabilities to generate revenue from "Out of town" sources to lessen the tax burden on our City tax payers. Continue to build on our success of utilizing Green Renewable Energy sources such as the WWTP Generated Methane Gas to heat Digesters Sludge and Building, by continuing to explore the potential use of Solar Energy-panels to supplement City's energy needs. Explore the options available to upgrade City owned Buildings high energy demand components, such as HVAC, by utilizing energy savings to pay for the replacement of energy inefficient systems, some of which are few decades old. Continuing to evaluate, improve, streamline and modernize DPW operations, for a more robust and efficient operation.
DPW was active in 2015 addressing our responsibilities and obligations in providing safe and pleasant living environment to our residents, with greater emphasis on addressing quality of life issues. This is accomplished by globally integrating all of DPW's different departments to achieve these goals, with the following results:

- **Code Enforcement Department**:

  - A new Code Enforcement Official, hired in 2014, has completed his certification in February 2015 and was assigned Rental permits for owner occupied two family dwellings. Department conducted 1,121 quality of life related inspections and issued related violations, which included property maintenance, garbage and litter, high grass and weeds, snow shoveling of sidewalks, off-street parking... Inspected approximately 4,865 rental units, had approximately 444 court cases, executed 20 search warrants, and Condemned 38 units. Fines and Court judgments were in excess of $1,347,000.

  - Building Inspector has generated a total of $466,546.00 in buildings and other permits fees, including $20,740.00 in Plumbing Permits/activities.
(Several DPW Departments participated in eliminating this Eyesore: Code Enforcement and Building Department, Water and Sewer Departments, Street & Sanitation Departments.)
Street Department:

In its contribution to improving quality of life, the Street Department is continuing in milling and repaving our streets, starting with the main roads and branching into the secondary ones. Last year we **milled and re-paved approximately 4.77 miles of City roads**, including sections of or entire Grand Ave, Irwin Ave, Wisner Ave, Rodman St, Sprague Ave, Sproat St, Cottage St, East Conkling Ave, Woodlawn Ave, Gardner Ave, Horton Ave, Pilgrims Place, Brewster Dr, Standish Dr, Allerton Ave, and Winthrop Ave. Town of Wallkill worked closely with our paving program so that all roads that overlap two municipal lines are milled and repaved in their entirety.
During Spring Clean-up, April 13 - May 8, we collected 470 Tons of otherwise would have been junk, most of which would have collected in residents garages or back yard, adversely affecting quality of life and potentially compromising fire safety. This is an increase of over 5% over last year’s quantity.

We are continuing Leaf Pick up and our Composting Operation in anticipation of giving the composting product free of charge to City residents. Entire City was picked up 4 times from November 3rd to December 12th.

We continue to utilize two Street Sweepers to keep our City streets and parking lots clean. City streets are swept once per month and the BID district is swept 3 times per week, weather permitting. Street sweepings collected totaled 887 Cubic Yards.

We continue to respond to all kinds of weather related events such as Ice or Snow storms and remain as an example to the region on how clear and safe
the City of Middletown Streets are after a snow storm event. Total number of snow, Ice and Freezing events were 23 for the year, using a total of 5,739 tons of salt.

(Snow removal by the Street Department in February of 2015)

(Street Department being certified on the use of the new Bucket Truck)
Sanitation Department:
Total Municipal Solid Waste (MSW) collected was 11,922.58 Tons in 2015 a decrease of 3.3% over MSW collected in 2014 due to more streamlined methods of generated waste disposal.

- We continue to encourage recycling as the "environmentally responsible thing to do with our waste", as it provides for "renewable resources" and minimize of the use of landfill space and disposal cost. Last year total single-stream recyclables was 813 Tons (consisting of 560 Tons picked up curbside and 253 Tons from Recycle Center), an increase of 3.3% over the previous year. We along with the Mayor, Common Council and its Recycling Committee Chairman, Alderman Jude Jean-François are doing more education and outreach to ensure much higher participation from the public in this extremely important Recycling program. We may need to consider Recycling enforcement as a last resort.
- **Water and Sewer Departments:**

  - Our Water Department has responded to **20** Water Main Breaks, 7 less breaks than the previous year.

  (Water Main Break on Fairlawn Ave.)

- Our Water Treatment Plant has treated **894,753,000 gallons**, while our Wastewater Treatment Plant has treated **1.68 Billion gallons** of Wastewater in 2015.
(Continuing to invest in our Infrastructure, including implementation of preventative maintenance and inspections to maximize the usable life of Newly Constructed Water Treatment Facility)
As we continue to invest in the City’s aboveground infrastructure, we are also concentrating on our infrastructure that is not readily visible:

- Our Water and Sewer Department has done several Water System Improvements projects in-house, saving the City thousands of Dollars. Projects included:

  1. Reconstruction of Kinch Dam Gate House. Work included installing two new 24” Butterfly valves, New Bar screen and reinforced concrete interior enclosure of the gate house. Concrete work was contracted to Boyce Excavation.
2. Replacing sections of old corroded elliptical CMP storm water triple culverts with new RCP elliptical culverts on Genung St, approximately 70 feet.
3. Completed the Construction of a new 8" Water Main on Willow Street by transferring residents' water services from old main to new one.

4. Replace sections of collapsed sanitary sewer lines at Wisner Ave, Harding St...
Utilize City Infrastructure to Generate Revenue to help our tax payers:

- DPW Wastewater Treatment Plant (WWTP) has generated $444,773 in revenue by accepting Septage from Septage Haulers from outside the city. This represents an increase in revenue of $121,163 over previous year.
City has finalized agreements with CPV, Gas fired Electric Power Generation Plant in the Town on Wawayanda, for the Purchase of the City Wastewater Treatment Plant effluent and returning the process water to same. City expects to generate revenue of $500,000 annually from sale of said services, once the plant is operational. This project is a great example for not only shared municipal services, but also a great Water Conservation Project, which preserve ground water aquifer by utilizing City Treated wastewater for CPV’s generator’s cooling needs.

Flood Mitigation Projects and FEMA Related Assistance:
(Due to the multi-year nature of work in this subsection, related excerpts from last year’s annual report are used with updates provided for active projects)

City of Middletown (during Tropical Storms Irene and Lee August 2011) was dealt a severe blow to its Drainage/Stormwater Collection System. Roads, Culverts and Critical infrastructure facility, such as the Water and Sewer Department Garage, as well as our DPW Street and Sanitation facilities yard were severely impacted and with some sustaining major damage that lasted for few years. DPW has invested significant time and resources since then to inspect the above ground and underground facilities for structural integrity and safety, temporarily relocating Water and Sewer Department Facilities, AND deal with FEMA's complicated claim filing and required documentations.
City is still dealings with FEMA to maximize the grants required to repair and upgrade and have a more resilient City Stormsewer System in order to protect our City and its residents from future flooding and/or minimize the adverse impact of the more frequently occurring "mega storms":

Some City of Middletown related to re-build our Stormsewer System, as follows:

- **Two Irene Damaged, partially funded FEMA**, Capital projects have been completing: Co Rt 78/N. Aspen Flood Diversion Wall and appurtenances, and East Ave/Fulton St Culvert Reconstruction/Improvement Project, totaling approximately $400,000, with FEMA funding totaling approximately $82,000. The project construction was completed. The Flood Diversion Wall can now, once again, **protect the Aspen Development from future significant storm events, but not from all storms**...

- **FEMA** has awarded the City $3,000,000 for the repair of the Monhagen Drainageway culverts and banks. This work included 3 projects; one of them included the huge crater that existed in the Street Department yard off Monhagen Ave. Public Bids were awarded for this construction work in the amount of $1,537,500. Two of the projects were completed in 2015, and third one is 98% complete.
(2011 Hurricane Irene damaged City DPW Facility finally being repaired)
- FEMA has awarded the City approximately **$350,000 for the repair of Mill Pond Dam**. City’s application to amend the scope of work, and provide for a more robust Dam, was approved by FEMA. Project was bid and Contract has been awarded to Boyce Excavation. The project construction was 99% completed in 2015.
FEMA has awarded the City approximately $74,000 for the dredging of the Monhagen Drainageway from Academy Ave to Genung St and few hundred feet into the open stream bed. Public Bid was awarded in the approximate amount of $227,000. City’s request to FEMA to increase the amount of approved funding was partially accepted. Construction/dredging work has been completed in 2015.
Grants Applications, Awards and Updates:

- City has applied from FEMA for Hazard Mitigation Grants in the amount over $27,000,000. These projects include, but not limited to, Maple Ave/Maple Hill Park Drainage improvements, Removal of Piers from...
the Monhagen Drainageway Culvert, Black Dirt Sewer Line, W. Main Street Drainageway Site improvement, Shawangunk Reservoir Dams Improvement, Monhagen Lake Dams Improvements, Highland Lake Dams Improvements... and Monhagen Drainageway Watershed Flood Mitigation Project. Some of the projects/grants were submitted through NYSSRF. In 2015, and so far City has been awarded:

- Sterling St Sewer Impr. Phase II was awarded $150,000.
- Black Dirt/Chorly School Sewer Project, at cost estimate of $3.5 Million, has qualified NYSRF low interest loan. Project is being submitted for NYSRF Round 2 funding in the hope to qualify for Hardship grant.
- Two potable Water Storage Tanks, Mountain Ave and WTP, $5.5 Million grant applications were not approved and are moved to round 2, were we are very hopeful of award.
- Maple Ave/Park and W. Main St Drainageway Improvement projects grant applications were not approved, and are now re-submitted for different source of funding.
- All referenced Dams Hazard Mitigation grants applications were not approved.
- Remainder of referenced Drainageway and Culverts Improvements-Flood Mitigation Projects grant applications were not approved.
(Volunteers cleaning Monhagen Brook, sponsored by OC Soil Conservation, DEC and City of Middletown 4/2015)

**Orange County Transportation Council, OCTC, Project/Grants:**

City of Middletown through the Mayor is a permanent voting member of OCTC where Federal funding for transit related projects are discussed and targeted for funding, normally at 80% - 20% local matching fund. We have been advancing the following Transit related projects, as follows:
I. City acting as Lead Agency/Project Sponsor:

- **Proposed Roundabout, JPK Way and Co. Rt. 78.** Estimated cost is $1.4 Million. Roundabout is being constructed to provide for safer more efficient intersection with traffic calming mechanisms to minimize speeding issues, as well as being a green infrastructure. Project preliminary design has been approved by Federal Hwy Admin and NYSDOT in 2015 with final design plans and specifications being finalized in early 2016, with anticipated Construction date in late 2016.

![Final design for the Roundabout on James P. Kelly Way]

- **Traffic Operation Improvements,** through major City Street – Dolson Ave, Academy Ave, Fulton St, Monhagen Ave, W. Main St, Wickham Ave, North St, Wawayanda Ave and E. Main St. Project Estimated Cost is $7.5 Million, and will include upgrading Traffic Lights, incorporating ADA signalized Pedestrian Crossing, ADA sidewalks ramps and roads reconstruction/paving. Project has been initiated in 2015 and design team is expected to be selected in 2016.

II. County Departments acting as Lead Agency/Project Sponsor:

- **Heritage Trail, Segment Phase II,** from Hartley Rd to E. Main St. The County Parks Department is the lead agency and we just recently voted in OCTC to increase the project funding to $6.793 Million. We have been working on and supporting this project for many years providing
technical, field and background support. We are currently working with City Corporation Counsel and County attorney’s offices on finalizing Trail agreement with county as most of this segment 2 will be constructed on City owned property. County anticipates construction starting in 2016.

- **Middletown Transportation Center:** We have been working with County Planning Department, then project lead agency, for number of years to develop this extremely important project, which will establish a new modern Bus Station and parking facilities for Coach USA and Mid City Transit use. This project has been recently taken over by Coach USA for expeditious design and construction. We are actively working with City Corporation Counsel office and Coach Attorneys to establish legal agreements for the use and long term maintenance of the facility, most of which will be constructed on City Owned property. Project estimated cost is $2.0 Million, which will be funded by Coach USA with reimbursement through NYSDOT. Project is planned to be presented by Coach USA Engineers to City Planning Board Spring 2016.

**Shared Municipal Services Grants and awards:**

*(Due to the multi-year nature of work in this subsection, related to this excerpts from last year’s annual report are used with updates provided for active projects)*

This Mayor, City government and this DPW Commissioner believe very strongly in Shared Municipal Services, when possible and it makes good economic sense, where it can save scarce tax payers funds and possible enhance our ability to obtain State or federal grants to fund such projects. Examples:

- Cities of Middletown and Port Jervis have successfully obtained grant from the State in the approximate amount of $500,000, with 20% local match, for sharing a Sewer Vac Truck, Sewer Cleaning Jet and underground Inspection Camera System. The equipment has been successfully utilized by our both municipalities without any issues, saving both municipalities hundreds of thousands of dollars.
- City of Middletown and Town of Wallkill have successfully obtained a grant from FEMA in the amount of $100,000, with 20% local match, for the development of Natural Hazards Mitigation Plan. Said plan was
submitted to FEMA for review and comments in September 2013. FEMA has approved and endorsed the plan.

- It should be noted that out of the $27 Million grants requests mentioned above, almost $14 Million are for projects to construct Stormwater Detention Ponds in the Town of Wallkill or the City of Middletown in order to minimize Storms peak flows so that existing Monhagen Drainageway Culverts, already constructed in the City can handle larger Storm Events. Areas of the project study are Pilgrims Estate, Cottage Street & Wisner Ave, and Industrial Place. While most of the said projects grants funding request were rejected under Hazard Mitigation Grants in 2015, we will continue to apply for grants funding when available.

**New York Rising $3 Million Grant:**

City was awarded $3 Million NY Rising Grant in 2013 by Governor Cuomo. City has worked very closely with the State of NY to comply with the grant conditions. Mayor has appointed six member panel, approved by the Governor’s office, consisting of City residents that were tasked to work with NYS Department of State Planners and its Consultants, TERA Tech, to investigate Drainage related issues as well as economic development goals. NYS and Committee have concluded their investigative work and have produced a final report in early 2015. DPW appreciates all the hard work and dedication of the local residents as volunteers on the NY Rising Committee. We have completed the grant application and the scope of work, had it approved by Governor’s office and put out an RFQ for qualified design firms. Design firms/Consultants will be selected in early 2016.
SSES - Inflow & Infiltration & WWTP:

- DPW just obtained a $30,000 Grant from the State for the Update of the 2003 SSES Study. We are hoping that this study will be able to pin point location of Inflow and Infiltration into our City Wastewater Collection System, in-light of completion of the construction of the Sterling Street Sewer Line, and the continuing significant increase in sewer flows to City Wastewater Treatment Plant during storm events. Work was completed and is being reviewed prior to submission to DEC. DEC has approved the report late 2015.

- City DPW continues to work with EPA and its consultant and Corporation Counsel Office to meet the milestones of the Administrative Order and the develop Industrial Waste Pre-Treatment Plan and Ordinance to protect the City and the environment from potential adverse industrial waste discharges into the City collection system. The program implementation is well on its way with site visits conducted in 2015, as well as Permits being issued.
Other DPW Projects-Activities

- We have been working on an Energy Performance Contract to evaluate all City Owned Assets, Buildings and facilities for energy efficiency. We have worked closely with City Consultant ECG and RFQ selected Contractor ESG in identify assets that can be upgraded or replaced so that the energy saving over the 18 years project life will pay for the initial capital and interest on borrowed funding, and generate positive cash flow to help other City operations. The Financial Grade Audit has been completed in late 2015. Construction Contract signing and work are planned for 2016, with total project cost estimated at $12 million.

- DPW is working on new Wastewater Sewer Line Upgrade project from Grant Street to Sterling Street, utilizing Pipe Bursting technology in order to minimize disturbance to resident’s backyards, where the sewer line currently constructed. Project has been approved by NYS EFC and DEC in late 2015. Construction is planned for 2016.

- DPW is working on a new Wastewater Sewer line project in the "Black Dirt Area" from the New Elementary school to Monhagen Ave, with estimated cost of $3.5 million. Project has been approved in late 2015, with planed construction start in 2016, funding permitting.

- We have and will continue to explore the potential use and implementation of harnessing the Sun Energy to help supplement the City Energy needs by the use of Green Renewable Energy, the use of Solar Panels/Farms.

The above highlights some of DPW goals and achievements for the year 2015. Please feel free to call should you require more details or if you have any questions or comments to discuss.

Sincerely,
Jacob Tawil, P.E.
Commissioner DPW

Encl: Streets and Sanitation Departments Annual Report
Water and Sewer Department Annual Report
Code Enforcement and Building Inspector Annual Report