

Department of Public Works
City of Middletown

Jacob S. Tawil, P.E.
Commissioner of Public Works



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Department of Public Works Annual Report

January 2014

Dear Mayor DeStefano,

We are happy to submit the 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 and Code Enforcement and Building Inspector by Deputy Commissioner Moser. The fourth section consists of the following:

The Mission of DPW for year 2013, *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 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 exploring the potential use of Solar Energy-Panels to supplement City's energy needs.*

DPW was active in 2013 addressing our responsibilities and obligations in providing a 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 various departments to achieve these goals, with the following results:

- Code Enforcement Department conducted **363 quality of life related inspections**, issued approximately **1,893 Quality of life related violations** that included property maintenance, garbage and litter, snow shoveling of sidewalks, off-street parking... , Inspected **approximately 4,760 rental units**, had approximately **374 court case** appearance, executed **19 search warrants**, and **Condemned 57 units**. **Fines and Court judgments were in excess of \$429,900.**
- **Demolished 3 houses and Asbestos abated 5 houses, two of which will be demolished early 2014.**
- Street Department, in its contribution to quality of life issues 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-pave approximately 3.35 miles of roads**, including major sections of East Main Street to City limit, Monhagen Ave to City limit, Vincent Dr., Wayne Pl., Poly Kay, R Dean, Margret Tr., Gay Bar Circle, St. Eve, Grant St, Co. Rte. 78 by Aspen area, Second Baptist Church Leased Parking lot and old Liberty School Parking lot.
- We continue to Sweep City Streets once a month and Downtown 3 times per week, weather permitting.
- During Spring Clean-up, April 16-May 4, we collected over 450 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.
- We are continuing Leaves Pick up and our Composting Operation in anticipation of giving the composting product free of charge to City residents.
- We continue to **encourage recycling** as the “environmentally responsible thing to do with our waste”, as it provides for “renewable products” and minimize of the use of landfill space and disposal cost. Last year total **single-stream recyclables was 770 Tons**; Total MSW was 12,765 Tons. We should do more education and then enforcement to ensure much higher participation from the public in this extremely important program.

- 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 Street are, shortly after a storm event.
- Our Water Department has responded to 15 Water Main Breaks.
- Our Water Treatment Plant has treated almost **1 Billion Gallons** (956,236,000), while our Wastewater Treatment Plant has treated **1.7 Billion gallons of Wastewater**.

As we continue to invest in City aboveground infrastructure, we are also concentrating on our infrastructure that is not readily visible:

Flood Mitigation Projects and FEMA Related Assistance:

- 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 still present until this date. DPW has invested significant time and resources since then to inspect the above ground and undergrounds 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's dealings with FEMA to maximize the grants required to repair and upgrade 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":

City DPW and its consultants worked diligently with FEMA in order to complete all the Grants/Repair applications. *When 6 months have passed since Irene and Lee and we were not getting too far with FEMA in terms of approving our requests for assistance to rebuild our storm damaged infrastructure, Mayor DeStefano and Council President Rodrigues reach out to Senator Schumer to arrange for a meeting for us to meet FEMA Administrator Craig Fugate in Washington DC.* With the help of the Senator and the understanding of FEMA Administrator, assistance and funds started to flow into the City of Middletown to re-build our Stormsewer System, as follows:

Two Irene Damaged, partially funded FEMA, Capital projects have been completed: Co Rte. 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 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 approximately \$340,000 in Small Projects repairs throughout the City. Construction work will be completed early 2014.**
- **FEMA has awarded the City \$3,000,000 for the repair of the Monhagen Drainageway culverts and banks. This project will address the huge crater that currently exists in the Street Department yard on Monhagen Ave. Public Bids were awarded for this construction work in the amount of \$1,537,500 and work is scheduled to start early 2014 upon obtaining the Army Corp of Engineers permits.**
- **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, is pending.**
- **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 is pending and the project is currently on hold.**
- **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.**

Shared Municipal Services Grants and awards:

This Mayor, City government and this DPW Commissioner believe very strongly in the advantages that Shared Municipal Services, when possible and 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 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.
- 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.

New York Rising \$3 Million Grant:

City was recently awarded \$3 Million NY Rising Grant by Governor Cuomo. City will be working very closely with the State of NY to comply with the conditions of the grant, and to explore the possibility of using some of the funding towards the **Construction of the Black Dirt-Presidential Heights School Sewer line, which for some time now has divided us and the Enlarged City School District.....**

It should be noted that the City has already applied for more grants for said sewer line.

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.

- City DPW continues to work with EPA and its consultant to meet the milestones of the Administrative Order and to develop strong Industrial Waste Pre-Treatment Plan and Ordinance that will protect the City and the environment from potential adverse industrial waste discharges into the City collection system.
- As required by the new City WWTP SPDES Permit, we started a new Amalgam Separator Inspection Program for all Dental Offices that have the potential of handling mercury as a component of teeth fillings.

Leveraging City Infrastructure to Generate Revenue to help our tax payers:

- DPW WWTP has generated **\$288,000** in revenue by accepting Septage from Septage Haulers from outside the city.
- City has recently signed an agreement with CPV, Proposed Gas fired Electric Power Generation Plant in the Town of Wawayanda, for the Purchase of the City Wastewater Treatment Plant effluent and returning the process water to same. City expects to generate revenue **in excess of \$500,000 annually**, once the plant is operational.

Other DPW Projects-Activities

- Fluoridation of City Drinking Water is continuing, working towards improving the dental health of City Children with benefits to be reaped throughout our children's adult lives. City received "**Certificate of Appreciation**" from **CDC** and the **American Dental Association**.
- 18" WL Phase II Construction project, Extending the 18" Water Main from the WTP to High Barney Rd, has been completed and commissioned, now extending City Water Services closer to Dolson Ave/ Rte. 6, Town of Wawayanda, and Town on Goshen. This will supplement the current water service to T. of Wawayanda. This project had many other benefits such as providing water system flexibility to service or replace Mountain Ave Water Storage Tank, High Barney Tank and installing Telemetry wireless communication between all the new components, eliminating the need for leased telephone wires.
- 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 residents' backyards, where the sewer line currently constructed.

- 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 million.
- DPW continues to leverage the advancement in technology and the investments that we made at City Wastewater treatment Plant and Water Treatment Plant to optimize the use of man power and allowing technology to do the work, to that end the elimination of the entire overnight shift at the WWTP was and continues to be successful. We will be preparing the Water Treatment Plant to do the same.
- 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 2013. 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

Street and Sanitation Yearend Report for 2013

HIGHLIGHTS

1. CLEAN UP WEEK - April 16 – May 4. **450 Tons**
2. MILL AND REPAVED PORTIONS OF East Main ST. ,Monhagen Ave, Vincent Dr., Wayne Pl., Poly Kay, R Dean; Margaret Ter., Gay Bar Circle, St. Eve, Grant Street , County Road #78 (@Aspen) Second Baptist Church Parking Lot and Old Liberty Street School Parking Lot. **7,712.63 Tons 17,700 feet 3.35 MILES**
3. LEAF PICKUP WAS MADE AROUND ENTIRE CITY-3 TIMES IN A ONE MONTH PERIOD.
4. LEAF COMPOSTING PILE AND MONTHLY MAINTANCE AND TURN OVERS
5. **100** CATCH BASINS REPAIRED AND REPLACED. **270** CATCH BASIN CLEANED
6. YARD WASTE WAS PICKED UP FROM MARCH UNTIL MID-DECEMBER CITY WIDE.
7. 80 WATER & SEWER DEPT, AS WELL AS INDEPENDENT CONTRACTORS AND PLUMBERS DITCHES WERE RESURFACED WITH BLACKTOP. 500 TONS USED
8. STRIPED PAINTED ALL APPLICABLE CITY STREETS.
9. CLEANED OUT 50 CATCH BASINS USING THE VACUUM TRUCK AS WELL ASSISTED WITH WATER & SEWER DEPT WHEN NEEDED.
10. SIGNS WERE REPAIRED AND REPLACED. 225 SIGNS
11. **17** TRAFFIC LIGHTS WERE REPAIRED **150 BULBS** REPLACE and **150 LENSES** REPLACE.
12. CITY WIDE SWEEPING ON ALL CITY STREETS AND PARKING LOTS WERE DONE ON A DAILY BASIS THROUGHOUT THE YEAR.
13. NUMEROUS COMPLAINTS, MINOR AND MAJOR WERE ALL CHECKED OUT.
14. ALL EQUIPMENT WAS REPAIRED, INSPECTED AND CHECKED ON A DAILY BASIS.
15. CITY WIDE PICKUP OF GARBAGE AND DAILY PICKUP IN THE DOWNTOWN AREA.
12,765.16 TONS
16. RECYCLEABLE PICKUP WAS DONE ONCE A WEEK AND RECYCLE CENTER WAS OPEN DAILY
770.27 TONS
17. NEW Sidewalk INSTALLED on 22 Cottage St.,

**CITY OF MIDDLETOWN
WATER AND SEWER DEPARTMENTS
2013 ANNUAL REPORT**

**ACTIVITIES LISTED BELOW REPRESENT WORKLOAD OF CITY OF
MIDDLETOWN WATER, SEWER, AND WATER METER
DEPARTMENTS FOR THE YEAR 2013.**

WATER DISTRIBUTION:

- 956,236,000 GALLONS OF WATER TREATED**
- 678,272,353 GALLONS OF WATER BILLED**
- 15 WATER MAIN BREAKS
INCLUDING 1 ON 24" MAIN**
- 7 WATER SERVICES SHUT-OFF DUE
TO FROZEN PIPES**
- 12 WATER MAIN TAPS**
- 4 WET-TAP CUT-INS (4" OR GREATER)**
- 8 GATE VALVES REPAIRED**
- 5 GATE VAVLES REPLACED**

- 7 HYDRANTS REPLACED**
- 8 HYDRANTS REPAIRED**
- ALL NYS 811 DIGSAFE REQUESTS MARKED
FOR WATER AND SEWER MAINS**
- UPGRADED WATER CAPACITY IN VINCENT
DRIVE AREA WITH EXTENSION OF 12"
WATER MAIN INTO EXISTING LOOP**
- PARTICIPATED IN NY RURAL WATER AND
HUDSON VALLEY WATER WORKS TRAINING
CONFERENCES**
- INSPECTED ALL WATER FACILITIES AND
RESERVOIR PROPERTY WITH ORANGE
COUNTY HEALTH DEPT.**
- SPRING FLUSHING OF ALL FIRE HYDRANTS**
- WINTERIZATION OF ALL FIRE HYDRANTS**
- DISCONNECTED WATER AND SEWER
SERVICES FROM MAIN FOR BUILDING DEMO
AT KNAPP AVE, BROAD ST, RAILROAD AVE**

--- LOWERED WATER VALVE BOXES FOR ROAD
MILLING

--- RAISED VALVE BOXES FOR PAVING ON:

--- E MAIN ST

--- GRANT ST

--- MONHAGEN AVE

--- MULBERRY ST

--- VINCENT DR AND ALL INTERIOR
ROADS

--- PERFORMED INSPECTIONS BI-WEEKLY
OF ALL CITY-OWNED DAMS

--- ROUTINE MAINTENANCE OF ALL WATER
STORAGE TANKS AND RESERVOIR PROPERTY

--- CUT TREES AND BRUSH FROM RAW WATER
LINES AND RESERVOIR PROPERTY

SEWER DEPARTMENT

--- 497.26 METRIC TONS OF SLUDGE HAULED

- 1,700,000,000 GALLONS TREATED WATER**
- 4 SEWER MAIN REPAIRS**
- 20 MANHOLES REPAIRED**
- 10 MANHOLE REPLACEMENTS**
- CONDUCTED INDUSTRIAL WASTEWATER
PRETREATMENT INSPECTIONS OF
INDUSTRIAL/COMMERCIAL ACCOUNTS**
- INSPECTED ALL STORMWATER OUTFALLS
WITH THE EPA.**
- BEGAN AMALGAM SEPERATOR INSPECTIONS
IN ALL DENTAL FACILITIES**
- PARTICIPATED IN POST-FLOOD STREAM
INTERVENTION TRAINING**
- RAISED MANHOLES ON NEWLY PAVED ROADS**
- REPLACED SEWER MAIN ON PARK PL ;
INSTALLED 2 NEW MANHOLES; CONNECTED
HOUSE LATERALS**
- VIDEO INSPECTIONS OF SEWER MAINS AND**

MANHOLES

- REMOVED GRAFFITI FROM CITY-OWNED BUILDINGS AND PROPERTIES**
- CLEANED BROOKS BI-WEEKLY AND BEFORE AND AFTER EACH STORM**
- CUT AND REMOVED BRUSH AND TREES FROM BANKS AND SIDES OF MONHAGEN BROOK MAPLE AVE TO CULVERT**

WATER METER DEPARTMENT:

- 7313 TOTAL ACCOUNTS**
- 6978 IN-TOWN ACCOUNTS**
- 335 OUT-OF-TOWN ACCOUNTS**
- 257 HIGH CONSUMPTION MONTHLY ACCTS**
- 27 MUNICIPAL ACCOUNTS**
- 103 INACTIVE ACCOUNTS**
- 232 FINAL READINGS TAKEN**
- 18 NEW ACCOUNTS ADDED**

- 341 METERS CHANGED COMPLETELY**
- 346 METER REGISTER UPGRADES**
- TOTAL OF 4,471 METERS HAVE BEEN
CONVERTED TO RADIO FREQUENCY READS
(TRACE & ORION SYSTEMS)**

**CITY OF MIDDLETOWN
CODE ENFORCEMENT DIVISION
2013 ANNUAL REPORT**

THE FOLLOWING REPRESENTS ACTIVITIES AND ACCOMPLISHMENTS OF THE CITY OF MIDDLETOWN CODE ENFORCEMENT DEPARTMENT FOR THE YEAR 2013. INCLUDES DUTIES OF THREE FULL-TIME CODE ENFORCEMENT OFFICERS AND DEPUTY COMMISSIONER.

VIOLATIONS SENT:

BULK CLEAN-UP	32
GARBAGE/LITTER	488
SHOVEL SIDEWALK	182
WEEDS/VEGETATION	326
GRAFFITI	14
OFF-STREET PARKING	10
PROPERTY MAINTENANCE (PAINT,ETC.)	841

INSPECTIONS:

SINGLE-FAMILY PERMIT INSPECTIONS	821
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SINGLE-FAMILY PERMITS ISSUED	246
TWO-FAMILY NON-OWNER OCCUPIED INSPECTIONS	569
TWO-FAMILY OWNER-OCCUPIED INSPECTIONS	86
MULTIPLE DWELLINGS	819
UNITS INSPECTED IN MULTIPLE DWELLINGS	3856
MULTIPLE FAMILY VIOLATIONS	1112
MULTIPLE FAMILY PERMITS ISSUED	234
QUALITY OF LIFE INSPECTIONS	363
COMPLAINTS RESPONDED TO	122
2-FAMILY VIOLATION REINSPECTIONS	123
COURT CASE APPEARANCES	374
CONDEMNATIONS	57
FINES & COURT JUDGEMENTS	> \$ 429,900.00
STOP-WORK ORDERS	2
SEARCH WARRANTS	19
DSS INSPECTIONS	51
MUNICIPAL SEARCHES	267
BUILDING INSPECTIONS FOR WALT	38

