



MUNICIPAL COMPLEX—1000 HARTFORD TURNPIKE



PILGRIM ROAD



CHAPMAN AVE

TOWN OF WATERFORD PUBLIC WORKS

ANNUAL REPORT FY20

From the Director:

This past year saw many accomplishments, challenges addressed and changes made. This annual report will highlight the span of the department services and the expertise of the staff. From the irritating pothole that needs to be taken care of to the handling of 30,000 tons of waste, I hope the following will illustrate the impact to the community on what services the Department provides.

The Department's goals are to;

- Protect and prolong the life of our assets
- Support the advancement of the quality of life
- Provide cost effective and efficient services

We are proud of what we do, what we have to offer, and will continue to share that with the community throughout the year.

Every day, not only do we accomplish typical public works tasks, we also provide support to other town departments, from assisting Recreation and Parks with our heavy and high reach equipment to the Registrars of Voters in the setup of the various voting locations.

The challenge this year that was felt by all, COVID-19. Public Works operations and staff continued to provide essential services during all phases.

In 2020, the most notable capital project was construction of the new Municipal Complex allowing the Administrative and Equipment Maintenance Divisions along with the Administration section of the Waterford Utility Commission to move into the newly constructed facility this May. The project, managed by the Municipal Building Committee, (when completed in December of 2020) will serve the Town's needs far into the future.

I would be remiss if I didn't acknowledge the work and understanding of my staff, my peers and the residents as I complete my first year as Public Works Director. Although this is my first full year as Waterford's Public Works Director, this will be my 36th year in the field of public works. It is still a learning experience which makes it exciting. I know all will continue to teach me the Waterford method, and advise me as I propose new methods and revisions to old methods so that the Department remains on the cutting edge of Public Works service for now and far into the future.

Gary J Schneider

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2020 Public Works Annual Report

Building new is easy, to maintain is difficult, but not impossible. Previous years, the focus was on new construction, the schools, the Municipal Complex and other renovations to town facilities.

Moving forward, the focus for Public Works will be to maintain our roads (asset valued at \$28 million), our Fleet and Mobile Equipment (replacement costs of over \$6 million) and equally important, focusing on

- * High level of Customer Service
- * Excellent records management
- *Compliance with Environmental Operating Permits
- *Ability to respond to Emergency Management Incidents

This Annual Report provides not only general information, it provides the “how many or how much” of the major tasks assigned to the Department. There is also a section entitled “Of Special Interest” which has “Frequently Asked Questions” for Public Works issues.

Next year, in our Annual report there will be a section on Facilities. In October of 2020, the responsibility for Facilities was moved from the Planning Department to Public Works.

Funding:

The Department is funded annually by several revenue streams.

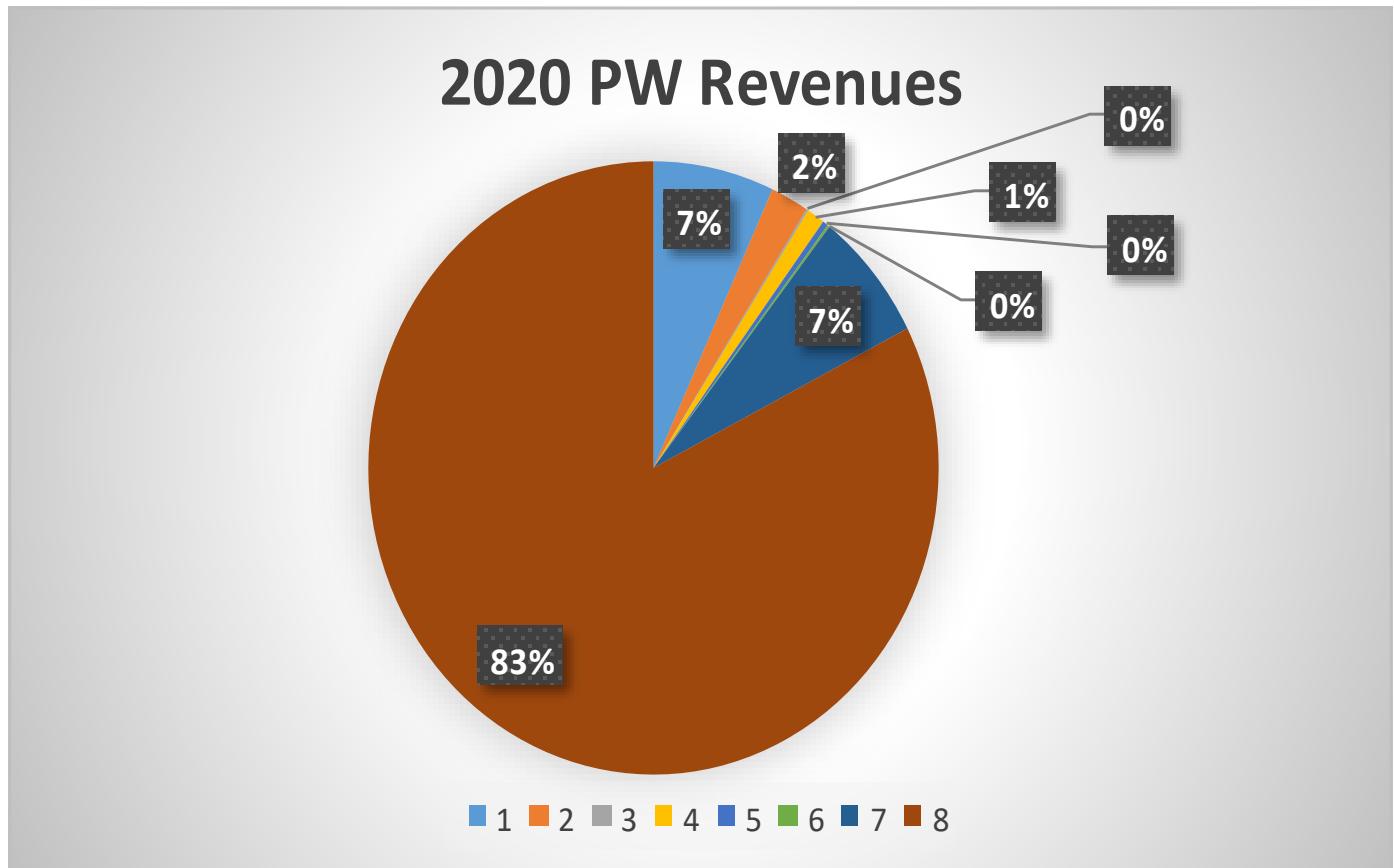
Figure 1 shows what was projected for the Fiscal year ending June 30, 2020. In general, the revenue streams remains the same, with the majority of the funding is from the general fund.

Figure 2 represents where the budget is allocated. Note that 26% of the budget is to manage waste.

Staffing:

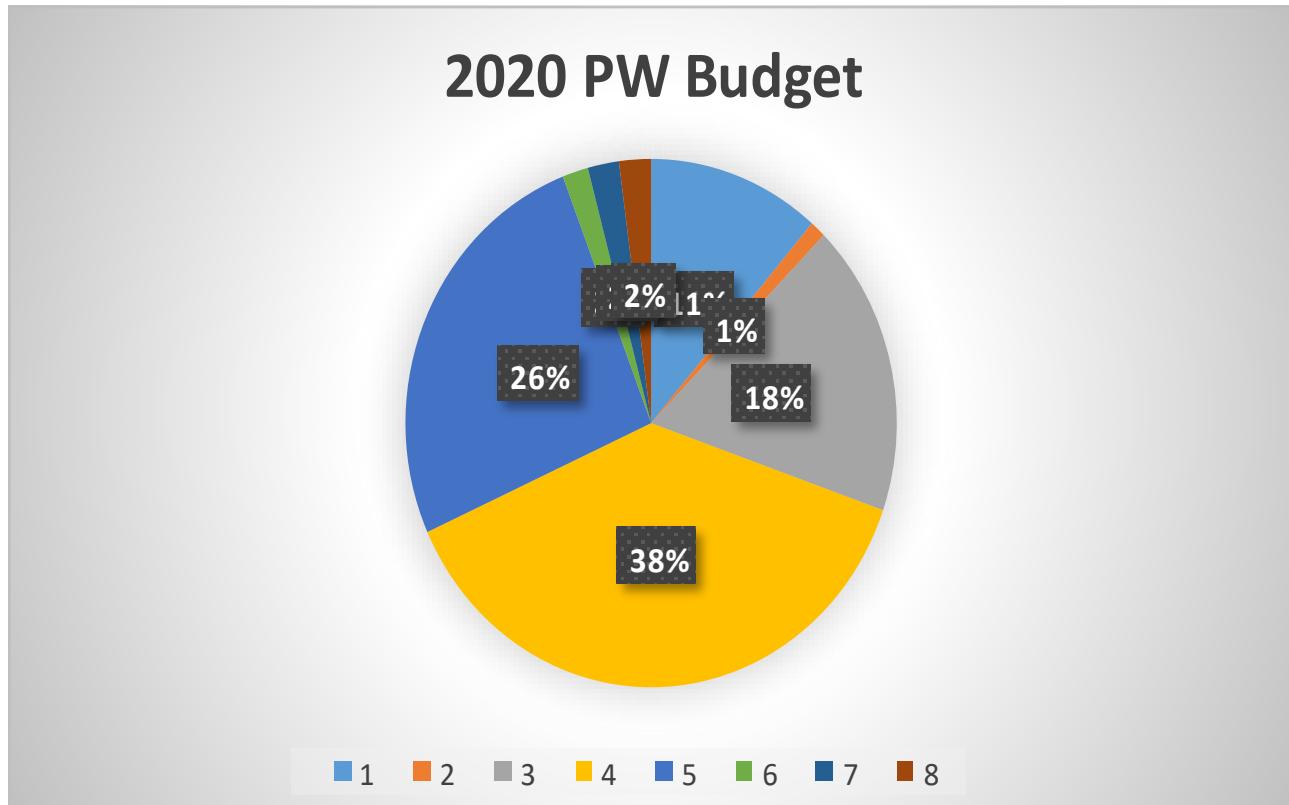
Figure 3 illustrated how the department is organized. Personnel are assigned to a division, but are moved between divisions to match the work flow.

Figure 1



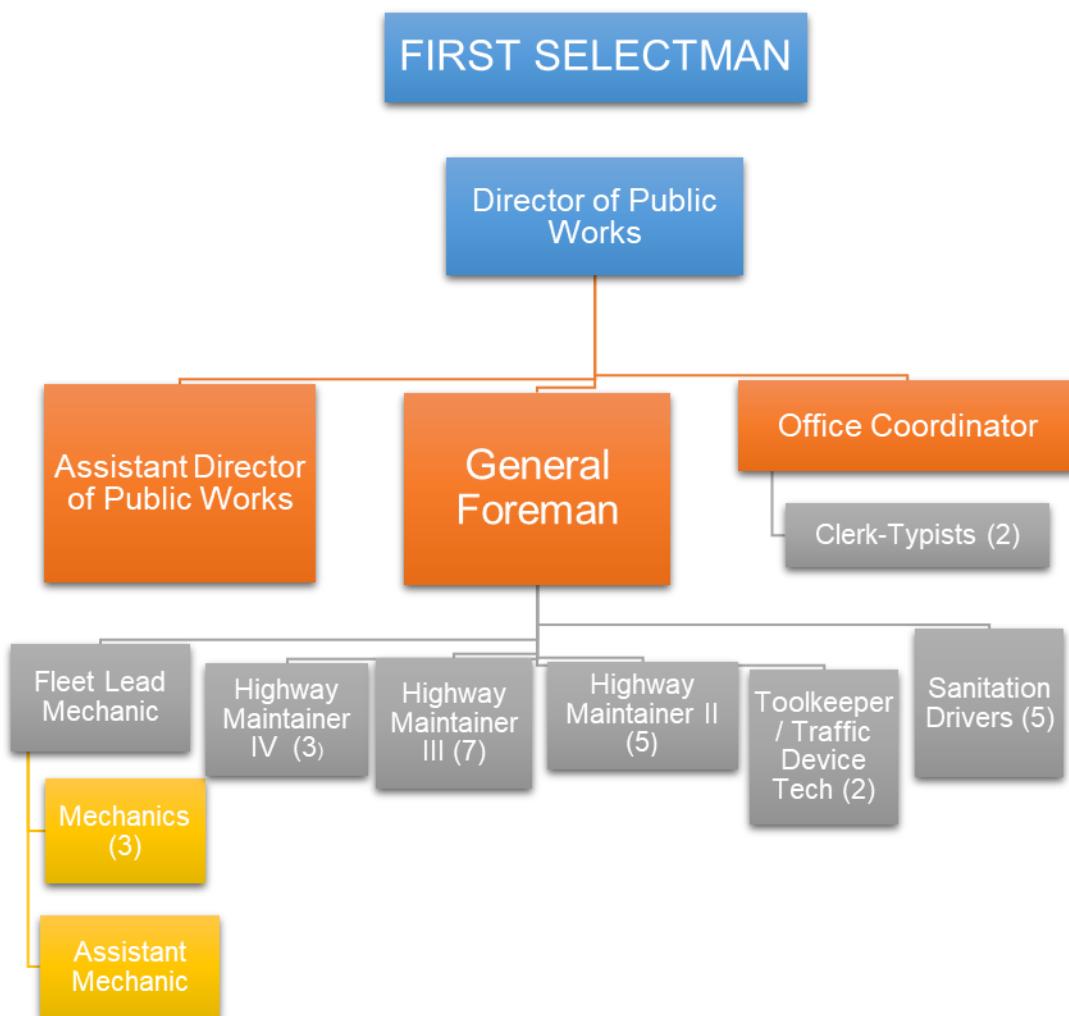
1. Municipal Solid Waste
2. Bulky Waste
3. Curbside
4. Scrap Metal
5. Yard Waste
6. Carts
7. State Aid
8. General Fund

Figure 2



- 1.—Administration / Clerical
- 2.—Engineering
- 3.—Equipment Maintenance
- 4.—Highway
- 5.—Sanitation
- 6.—Snow removal
- 7.—Environmental
- 8.—Facilities

Figure 3



HIGHWAY STAFF

HIGHWAY OPERATIONS is not just the asphalt, but everything within the Right of Way.

(This budget accounts for 38% of the Public works Annual Budget.)

It is important for the residents to have well-maintained and well-lit roads to ensure that traffic flows as smoothly and safely as possible. In order to accomplish that, the Department mixes in-house work with contracted work to provide a cost effective delivery of services.

Resurfacing of our roads, bridge and culvert renovations and sidewalk replacements are funded from either the Capital Improvement Program or the Capital non-Recurring funds that are approved separate from the annual Public Works operating budget.

For our 120 miles of improved town roads and 0.27 miles of unimproved Town roads with a replacement value of over \$28 million.

Our highway operations general consists of:

*Pothole and pavement repairs	*Dead Animal removal
*Signs and roadway markings	*Sidewalk and curbing repairs
*Street Lighting	*Street Sweeping
*Snow & Ice response	*Tree Work
*Litter Control (mowing)	*Vegetation Control
*Storm drainage system maintenance and repairs	

Highway operations personnel also provide support for other activities such as the Transfer Station operation, substitute drivers for the sanitation division, polling place set up and break down and emergency response. The personnel also perform the residential curbside bulky waste and brush collections.

It also includes the maintenance of all town bridges, all Town drainage pipe, catch basins, and all sidewalks including those on state roads.

Chad Adams
Kyle Beaudette
Christopher Bonanno
Bruce Bordeau
Rogue Diaz
Jordon Hancock
Erik Kelly
Michael Kovalik
Dane (Stan) Leblanc
Kevin Miller
David Muscarella
Todd Robbins
Richard Sargent
Michael Silvestri
Kenneth Swaney
Steven Turchetta
Michael Watson

This Division, with the use of a 65-foot aerial bucket truck, maintains approximately 8,200 street trees, assists Recreation and Parks in maintaining their ballpark lights and maintains the Fire Department's preemption devices at the major roadway intersections, so that the emergency vehicles ensure safe passage through busy intersections.

Highway operations maintains everything within the right of way (usually 50 feet wide) , see **Exhibit A** of our streets and all easements for drainage.

By the numbers, we maintain:

- ◆ 20 bridge & major culverts (plus 2 bridges shared with NL)
- ◆ 33 Miles of sidewalks
- ◆ 3,200 stormwater catch basins
- ◆ 58 miles of stormwater piping
- ◆ 3 traffic signal locations
- ◆ 3,400 traffic signs
- ◆ 707 street name locations
- ◆ 521 stop bars
- ◆ 4 Railroad crossing signage
- ◆ 44 Crosswalk locations
- ◆ 560,000 LF of center line markings
- ◆ 4.9 miles of guide rails (wire, rope, rail and guard posts)
- ◆ 1,900 street light units
- ◆ 8,200 street trees



So, how are we doing? Our recent review of the condition of our roads has confirmed what many have been noting. The condition of our roads had decreased by 13% over the last 15 years.

Exhibit B is a chart from the completed study. The Pavement Condition Index which is a weighted formula, uses the severity and extent of nine major pavement distresses to arrive at a number from 100 (best) to 0 (worst)

To get back to the level of service of 2005, that cost has been estimated to be \$2,400,000 per year for the next 10 years. To just maintain the current condition, \$1,600,000 per year for the next 10 years.

EXHIBIT A

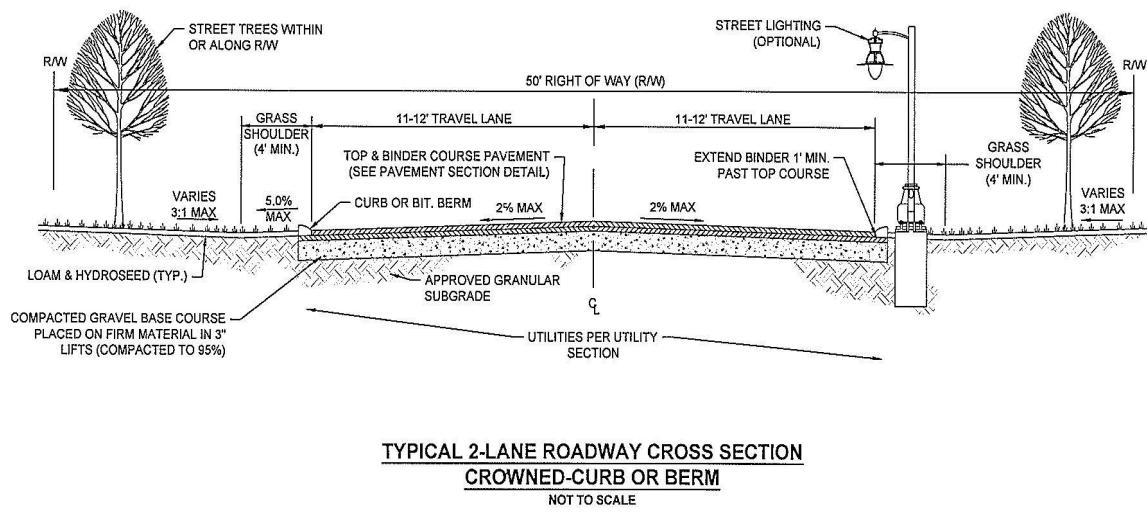


EXHIBIT B

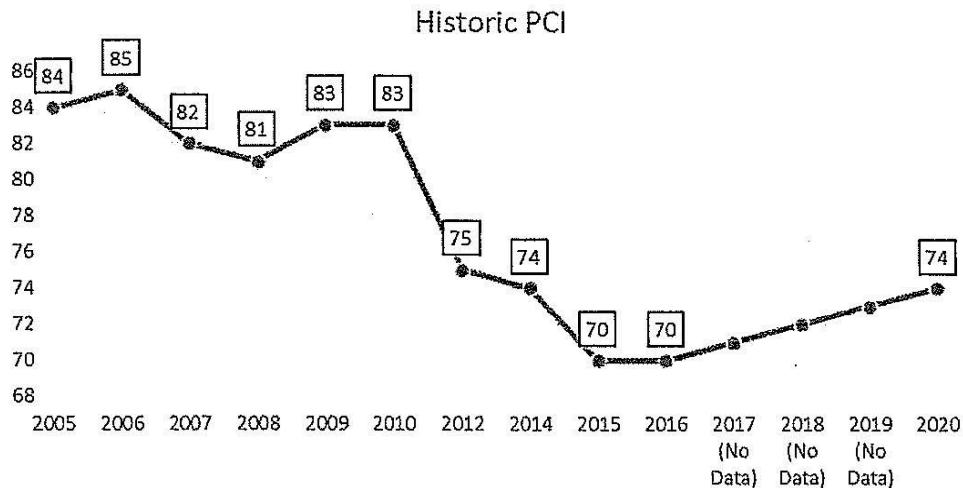
Report of Findings: Pavement Management 2020 Update

Pavement Condition Trend

As the pavement management system has been updated over the years, VHB has been able to track the change in overall condition to the Town's pavement network.

The following chart shows the change in Town-wide estimated average PCI since 2005.

Figure 6 **Estimated Average PCI 2005-2020**



1 Note: No assessments were done 2017-2019.

After maintaining a high estimated average PCI for several years, a drop in average conditions started in 2012, and has remained low since then.

EQUIPMENT MAINTENANCE

(This budget accounts for 18% of the Public Works Annual Budget)

This Division's skilled mechanics perform services and repairs for the simple \$125 weed wacker to the \$270,000 automated collection truck.

Changes have occurred over the last 10 years in this Division that have had major impacts.

- Management personnel and information: During this period, the need for information has increased. Gone are the simple replace a vehicle on a set schedule of so many years. Maintenance records, usage, regulations, sustainability goals are now all part of the analysis before a decision to replace is recommended. It also involves optimizing the utilization of resources and establishing performance standards.
- Number of vehicles and prices of equipment: The November 2009 Fleeting Sizing and Utilization Study prepared by Chatham Consulting Inc. identified 196 units that the division was responsible for. Today, over 250 units are maintained by the division, a 27% increase.
- Complexity of the Equipment: The knowledge, skills and ability required to repair the equipment has changed rapidly during this time. Equipment not only has the mechanical component, added is electrical and electronic components: Systems are far more complex.

What is funded here"

Funded from this division are all costs (labor & parts) for repairs to the Public Works assigned vehicles and all Administration vehicles assigned to other Town Departments. For all other vehicles and equipment repairs (parts only) are charged to their respective departments.

EQUIPMENT MAINTENANCE STAFF

Garon VanOverloop—Fleet Lead Mechanic

Donovan Dyer—Mechanic

Shawn Kotfer—Mechanic

George Dawley—Mechanic

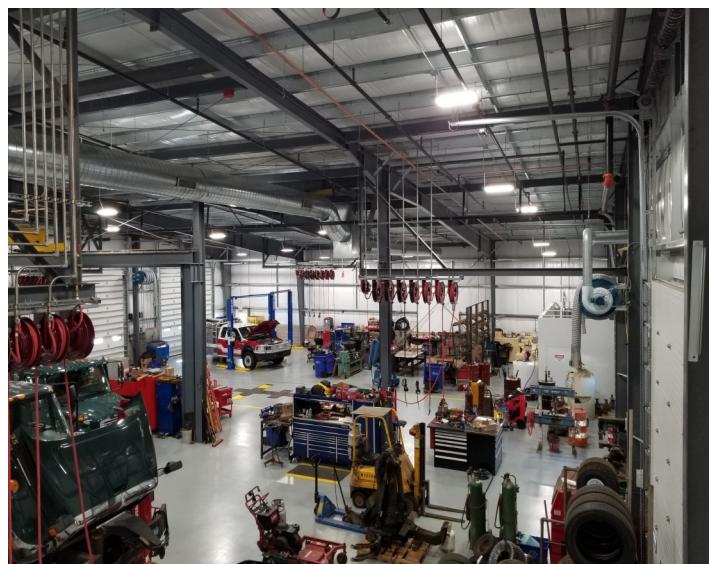
Vacancy—Assistant Mechanic



1,022 WORK ORDERS IN FY20

Serviced by this division:

- ◊ Senior Service Vans
- ◊ Police
- ◊ Recreation & Parks
- ◊ Utility Commission
- ◊ Fire (admin & small trucks)
- ◊ Public Works



Solid Waste (This budget accounts for 26% of Public Works budget)

(Curbside collection and Transfer Station Operations)

The best place to start this discussion is from where the waste is generated, the home. Businesses, apartment complexes and condominiums may be a little different, but basically it follows the same.

The Department collects from the curbside once a week for garbage (BLUE cart) and every other week for recyclables (GREEN cart). If you haven't heard from new residents who have moved into Waterford from the surrounding area, this color scheme may be confusing. The color scheme is the reverse for all other communities. (blue for recycling, green for garbage)

Residents purchase a cart (s) from the Department. The Department delivers the newly purchased carts weekly. The Department maintains the carts by replacing the wheels and lids.

For collection, we use automated side loading vehicles, dividing the town into 5 collection areas (Monday—Friday). We also have a limited dumpster route that services condominiums, public buildings and fire stations.

Bulky waste is collected between April—October by appointment. Yard waste is also collected curbside between April—November picking up the biodegradable paper bags. Appointments must be made for both of these, with some fees associated.

SOLID WASTE STAFF

Glenn Andrews—Garbage Truck Driver

Robert Harrington—Recycling Truck Driver

Benjamin LaRose—Recycling Truck Driver

Jack McLean—Garbage Truck Driver

Patrick Sisson—Garbage Truck Driver



FY20 FUN FACTS

268 Bulky Waste stops
30 Paid Brush Stops
1,744 Yard waste Stops





Now that it is on the truck, what happens next?

The Town is a member of Southeastern Connecticut regional resources recovery Authority (SCRRRA or the Authority). The Authority has a long range disposal contract with Wheelabrator, Inc. The waste on the truck is brought to the Waste to Energy Facility located in Lisbon, CT. in accordance with the Municipal Services agreement which was signed in October of 2019. The tipping fee or cost per ton has been established by the Authority at \$58/ton for FY20. This tip fee has remained stable since 2014. The Waste to Energy Facility bills SCRRRA who then bills the Town.

For single stream recycling, the Authority has also taken on this issue by including the disposal of recyclables in the Municipal service Agreement. The Authority has a 5 year contract with Willimantic Waste (Willimantic, CT) as the location to process the recyclables. The Authority for the FY21, will be covering the processing cost (\$70/ton) for each of its member towns. For Waterford that number is close to \$140,000 in avoided cost. Due to market changes, the Town no longer receives revenues from recyclables.

Waterford Transfer Station

The Bulky Waste Transfer Station is located at the Municipal Complex. This facility serves only the Town of Waterford residents and commercial businesses.

The Transfer Station is open 4 days a week from April—December and 3 days from January—March. It accepts material for disposal. (see attached list for accepted materials and corresponding fees)

SCRRRA, as a service to its' members, provides at no cost the following services to the Town. Removal of:

*Propane tanks (158)	*Motor Oil (3,725 gallons)
*Flourescent Bulbs (2863 pounds)	*Freon (751 units)
*Electronics (47.4 tons)	*Oil Filters and oily rags
*Batteries	*Mattresses (1,531)
*Tires (729)	

Wood Grinding and chip removal is provided to help us dispose of our yard waste.

Regional Household Hazardous Waste Collection Days are offered to Waterford residents from April—November which also include confidential paper shredding at each event.

BY THE NUMBERS

GARBAGE

<u>FY</u>	<u>CURBSIDE</u>	<u>COMMERCIAL</u>	<u>TOTAL</u>
	<u>TONS</u>	<u>TONS</u>	
18	7,285	4,426	11,711
19	7,326	5,267	12,593
20	7,510	4,745	12,255
		3 YEAR AVERAGE	12,186 tons

RECYCLABLES TONNAGES

<u>FY</u>	<u>TONS</u>
18	2,242
19	2,171
20	2,012
3 YEAR AVERAGE	2,142 tons

CARTS IN THE TOWN OF WATERFORD

11,540 BLUE CARTS
8,416 GREEN CARTS
25 LOCATIONS ARE PICKED UP EVERY WEEK BY
OUR DUMPSTER TRUCK
45 GARBAGE DUMPSTERS
35 RECYCLING DUMPSTERS



WATERFORD TRANSFER STATION
FEE SCHEDULE

TIRES:	FEE DETERMINED BY SIZE:	
Passenger Tires - (off rims)		\$ 2.00 each
Truck Tires 7:50 x 16 & up		\$ 5.00 each
Earth Moving Equipment Tires		\$50.00 each
STUMPS:	NOT ACCEPTED	
LOGS: > 6" in diameter		\$110.00/TON
BRUSH:	BY LOAD SIZE	
Pickup Truck	1 Cubic Yard	\$5.00/Load
Small Dump Truck	3 Cubic Yards	\$10.00/Load
Small Dump Truck (1-2 axle)	3 Cubic Yards	\$10.00/Load
Large Dump Truck	6 Cubic Yards	\$15.00/Load
ATTENDANT WILL USE JUDGEMENT ON ODD SIZE LOADS		
DEMOLITION/CONSTRUCTION DEBRIS:	\$110.00/TON	
Demolition Debris/Shingles/Sheetrock/Lumber, etc.		
Sofas, Stuffed Chairs, Carpets		
\$5.00 Minimum Charge		
ATTENDANT WILL USE JUDGEMENT ON MINIMUM CHARGE.		
MIXED LOADS	\$110.00/ TON	
APPLIANCES:	\$15.00/Each	
Refrigerators, Freezers, Air Conditioners, Dehumidifiers, etc.		
TRANSFER STATION DOES NOT ACCEPT		
Regular household trash, bottles, cans, newspaper and magazines (collected curbside)		
Household Hazardous Waste (Special Collections, Call 860-444-5864)		
Grass Clippings, Rubble, Stone, Concrete, Asphalt, Dirt, Stumps, Rocks		
NO FEE ITEMS		
Used Motor Oil, Anti-Freeze, Flourescent Light Bulbs, Propane Cylinders,		
Batteries, Metal, Leaves (NO PLASTIC BAGS)		
Matress, Boxspring, Stoves, Washers, Dryers		
Electronics: Computers, Monitors, TV's, Fax Machines, Printers, Scanners,		
Adding Machines, Stereos, Speakers		

CART CONDITIONS



THIS IS WHAT HAPPENS TO THE GARBAGE TRUCKS WHEN THE WRONG MATERIALS ARE THROWN AWAY IN THE CARTS.....COSTING \$1,000'S IN REPAIR COSTS

THESE CARTS ARE TOO CLOSE TO THE MAILBOX, SO NO COLLECTION AND NO MAIL.



THIS RECYCLING WILL FALL ALL OVER THE STREET INSTEAD OF THE TRUCK

IMPROPER ITEMS WILL BE LEFT BEHIND

4 FEET BETWEEN CARTS!!



PLEASE PLACE YOUR CARTS PROPERLY



ADMINISTRATION DIVISION - (This accounts for 18% of Public Works Budget)

Broadly this division:

- Manages and accounts for our assets
- Manages personnel assigned to the Department
- Amplifies the call for infrastructure investment in the Capital Improvement Plan
- Plans for Emergency Management and Disaster Mitigation
- Incorporates sustainable practices into Public Works practices

ADMINISTRATION

Gary Schneider—Director

Daniel Matheson—Assistant Director

Thomas McKittrick—General Foreman

Sandra Kenniston—Office Coordinator

Nancy James—Clerk –Typist

Jacquelyn Jackson—Clerk Typist



Engineering – The engineering function is to provide engineering reviews and recommendations for the Town. Most of this work is performed by consulting engineering firms contracted by the Town to perform the work. It also includes engineering services in the form of plan reviews and bond estimates for Town agencies.

Maintaining a Balanced Budget – Finding solutions, including cost-containment options, to ensure a balanced budget and that resources are provided to focus on the town's priorities.

Legislative Analysis – The division completes reviews on State and Federal legislative proposals as they pertain to Public Works, providing thorough analysis of policy and financial issues that could affect the Town.

Fiscal Analysis – The Division reviews in detail quarterly expenditures of 77 lined items.

Efficiencies – This division worked with all Public Works divisions to continue to find efficiencies in our operations.

Human Resources – Weekly payroll, training, education and accident investigation

Purchasing - Requested approximately 75 purchase orders with the proper justification for every purchase.

Information Technology – Each division's needs are consolidated and presented to the IT Committee for action.

Accounting – Authorizing the payment of vendor and contractor invoices is a major endeavor of this division. Matching the “bill” to the proper account, ensuring the material has been received or the work completed and the invoice has the proper pricing is a continuous task.

Approximately 200 invoices are process monthly.

Emergency Management—Plan for response to weather and manmade events.

Fuel—This Division manages the fuel system for the Town. In FY20 a total of 212,086 gallons of fuel was purchased.

FY 20 CAPITAL PROJECTS

Chapman Avenue and a portion of Pilgrim Road, a little over half mile of the 120 miles of accepted roads located between Vauxhall Street and Bloomingdale Road was resurfaced. The resurfacing was completed in the spring of 2020. Using a combination of Public Works staff and contractors, the project provided a new road surface to a high use area in town. Just like a roof, there comes a point where everything “must go” so you can get down to supporting structure, fix whatever has failed, and then build back up on that. This is what was done on these 2 roads.

Public Works provided support to the contractor who ground up the existing asphalt into the gravel. Grading, compaction followed with 2 layers of asphalt placed by a second contractor resulted in structurally sound and smooth riding surface. The final task involved having the pavement markings applied to the road., as well as guardrail installed.

Vauxhall Street (the portion between Douglas Lane and Huntsbrook Road was also completed using the same project approach. This completed close to .9/mile of resurfacing.



Chapman Ave



Pilgrim Road

Design work continues for **Gardiner's Wood Road** project. This project will be a large investment for the Town of Waterford, so funding will not be authorized until all design and permitting have been completed.



GARDINERS WOOD ROAD



Municipal Complex has happened:

Home to the Public Works Department, Town Transfer Station, Waterford Utilities Commission, a refueling station and the Police Outdoor Firing Range, this 22.7 acre site is located at 1000 Hartford Turnpike (Route 85).

A key facility that houses the town's public service and maintenance operations, this project was overseen by the new Municipal Complex Building Committee established in 2017. Consisting of 7 members of the community, they guided the project through the demolition of the existing structures, construction of 60,000 sf of new construction and the remediation of 13,000 cubic yards of contaminated soil.

The Town of Waterford now has a facility designed and built for its intended use. This project celebrates how a community can transform a site that once was a textile mill into a municipal gem that not only serves the public, but protects the natural resources around the site.



OF SPECIAL INTEREST

- ◆ ENVIRONMENTAL COMPLIANCE
- ◆ SNOW OPERATIONS
- ◆ TRAINING
- ◆ SIGNS, SIGNS, EVERYWHERE IS SIGNS.....



ENVIRONMENTAL COMPLIANCE

Public Works has always secured one-time permit approvals for all of its operations and construction projects, but over the past several years the Department has been assigned the custodian of numerus authorizations, permits and operational compliance reporting that require continuous attention, reporting and updating.

In general, the Department must monitor, inspect and address the following areas:

- Natural Pollutant Discharge Elimination System Permits (Clean Water Act)
Town Wide – MS4 General Permit
- Spill Prevention Control and Countermeasures Rule
2 sites
- Underground Storage Tank Regulations
4 Sites
- Gas Dispensing Facilities Regulations
3 Sites
- Solid Waste Regulations
2 sites
- Environmental Health and Safety

Of all the permits listed above, it is the compliance with general permit for Municipal Separate Storm Sewer Systems (MS4) (which falls under the first bullet, Clean Water Act) that has the most impact on our annual budgets and the Capital Improvement Program but it is also the one that residents can assist the town in reaching its compliance.

The MS4 permit mandates the Town to develop, implement and enforce best management practices (BMP's) for the six Minimum Control Measures. For the six minimum control measures, the Town has identified 38 Best Management Practices or tasks that must be met. One of the largest impacts is that the permit requires the Town to implement a screening and monitoring program for all outfalls that discharge to impaired waters as defined in the most recent Connecticut Integrated Water Quality Report. The Town must also meet certain criteria for discharges to impaired waters, or waters which nitrogen, phosphorus, bacteria or mercury are Stormwater Pollutants of Concern, or waters which have pollution load reductions specified within the Total Maximum Daily Load 0(TMDL is the water quality implementation plan established pursuant to Section 303 of the Clean Water Act). There are now requirements for any new discharges to both impaired and high quality waters.

This program involves

- Inspect of retention/detention basins -
- Samples of Stormwater taken -
- Clean annually Catch Basins - (1,000 annually out of 3,200 total)
- Inspection of 283 outfalls (end of pipe)
- Maintenance of 58 miles of pipe.

What can a resident do to improve the health of our brooks, rivers and Long Island Sound?

- ⇒ Pick up litter and pet waste so that it doesn't wash in the catch basins
- ⇒ Minimize the use of insecticides, herbicides and fertilizers
- ⇒ Install a rain barrel
- ⇒ Create a rain garden
- ⇒ Never dump anything down the catch basin
- ⇒ If you have a septic system, maintain it by inspections and regular pumping

What can you do?

INSTALL A RAIN GARDEN

Construct a rain garden to increase your property's ability to absorb water and improve water quality. Direct roof run-off or driveway run-off to these areas.



RIRECT DOWNSPOUTS TO GRASS OR GARDENS

Redirect run-off water from your driveway and away from the street to places where it can infiltrate into the ground and decrease the amount of water that enters storm drains.



SAVE WATER IN RAIN BARRELS

Collect and store water in rain barrels for lawn and garden use.



SNOW

Snow Removal on:

- * 240 lane miles of roads
- * 33 miles of sidewalks
- * Main traffic loops of 4 schools

Use treated salt (no sand)

- FY18—2,000 tons of salt
- FY19—2,700 tons of salt
- FY20—1,542 tons of salt



The snow plow drivers are called out when the police officers who are working in town determine conditions are getting hazardous.

Operational, the 15 routes we treat once every 4 hours



WATERFORD SALT SHED



TRAINING

Increasing the focus on training:

Connecticut Public Works Departments are fortunate to have the UCONN T2 Center when even during the COVID 19 pandemic, virtual training was being offered in many Public Works disciplines.

The Assistance Center offers a Connecticut Road Master Program. From the T2 Center webpage “a properly maintained local road system is vital to the social, economic and environmental well-being of Connecticut’s municipalities. In addition, the local road system represents a significant investment of public funds. Protecting and preserving this investment requires a force of municipal personnel with sound training in the fundamentals of road maintenance management procedures and techniques. The Connecticut road Master Program provides an opportunity for municipal road maintenance personnel to receive this specialized training.

The Department will be offering this training to our Highway personnel encouraging all to become a Connecticut Road Master.

The Center also offers other specific training in critical areas which the Department has taken advantage of. Some examples are All About Asphalt, Flagger Certification, Chainsaw Safety & Defensive Driving for snow & Ice conditions, as well as many others.

According to the Federal Highway Administration (FHWA), in 2017 there were 799 work zone fatalities nationwide, the majority of which were motorists, with 132 deaths accounting for roadway worker fatalities. On average, more than 40% occurred in low-speed work zones.

CT Training and Technical Assistance Center (UCONN) sponsored a day workshop which 4 of our employees attended. This workshop taught the basics of establishing a proper and safe work zone. Along with the knowledge, Waterford received a safety signs and flagging equipment.

The Town of Waterford sent 4 staff members to a Traffic Sign class and was eligible to receive the signs shown in this picture for free.



SIGNS, SIGNS, EVERYWHERE IS SIGNS

I have asked the Department's person assigned to manage our street signs and traffic marking to tell us in a few words, what is all about this. Richard Sargent, a 40 year employee, prepared this to answer my question. His passion for the craft required me to edit this to one page.

Traffic Control Device Value 2020



Most people who are oriented towards Public Works or Department of Transportation know that their road systems are one of their most important assets. Waterford, Connecticut presently has a network of 121 miles of town roads. Those roadways use just under 3,400 signs. They govern safe speeds, advanced notice of Crosswalks, Curves, Stops, Intersections and assist guiding people around town to mention a few

If you were to distribute our signs evenly per mile there would be about 28 signs for each mile traveled. Let's take a look at them. Those 3,400 signs have a current, average replacement cost of approximately \$120,000 alone. Prices can run to almost 2 times that number, near a quarter of a million dollars.

Waterford's signs are held in place by a variety of poles and posts. The poles, about 575 of them, are used primarily for the Street Name and Dead End plaque signs. Their current value is a touch over \$40,000. Naturally the signs can't just rest on those poles. 870 pieces of Mounting Hardware plus or minus a few are need. That equates near another \$14,000. If those poles are not secured in the ground they manage to get turned sending out of town drivers down the wrong road or pulled out of the ground. To slow that down those poles all have a 40 lb. concrete anchor. That adds an additional cost, a little under \$3,000. The other posts you see here supporting the signs are called U-Channel posts. There are about 2,350 of them around town. That is almost a \$50,000 expense. There are about 2,525 signs mounted to them and each sign takes 2 nuts, bolts and washers. That is an additional \$1,616. The U-Channel post has to have what is called a Break Away System. That consists of a U-Channel post (We use 4 foot long ones for stability) being driven into the ground. That is a cost of near \$18,850 but, each sign post has to be fastened to the anchor with a Lap Splice. That equates to about \$14,000. So you see guiding motorists through a road network is not an inexpensive undertaking.

Especially when you factor in Road Marking Paint.

Waterford has near 560,300 lineal feet of Centerlines. 4 inches wide. One foot of double yellow line equates to 2 lineal feet. Those Centerlines are a cost in the area of \$162,472. Along with the Centerlines are Street Markings. Stop Bars, Crosswalks, Arrows, Shoulder Lines, Lane Dividers and a few others. They are up near 17,300 square feet equating to the neighborhood of \$53,000 and near

49,000 lineal feet at a cost of just over \$14,000.



FREQUENTLY ASKED QUESTIONS

How do I get an additional cart?

Each home is allowed up to 3 of each blue and green carts. Carts cost \$50.00 each and the Town will deliver them to your home once we receive payment. Residents can mail a check in or stop at the office to make the arrangements.

How do I report a streetlight issue?

The Town now owns the streetlights in town. If you call the Public Works office at 860-444-5864 we will get the company out for repair. We must have the pole number or an address that the pole is closest to.

How do I report a pot hole?

Calling the Public Works number at 860-444-5864 will get the pot hole repaired.

How do I schedule a bulky waste, brush or leaf collection appointment?

Bulky— Bulky appointments are scheduled between April - October. The appointment charge of \$20.00 must be prepaid before an appointment is given.

Brush— Brush may be scheduled as long as it is cut/bundled in 4 foot sections, manageable by one person. There is a \$20.00 charge for brush pickups.

Leaf collection— Please call the office to leave your address so you get on the list for the crews to pick up the bio-degradable bags. The appointments happen between April - November.

Call the Public Works office at 860-444-5864 for information

How can a resident use the Transfer Station?

The Transfer Station is open for Waterford residents. Residents will be asked to show ID with their address. No appointment is necessary. For those items with a charge, cash or checks are taken at the Transfer Station, and must be paid at the time of disposal.