

Franklin Department of Public Works

Snow Removal Program

Sidewalks

Wetland Maintenance

Recycling Audit

Town Council Meeting December 16th, 2015

Robert Cantoreggi, Director

Carlos Rebelo, Highway and Grounds Superintendent

FY 2015

- FY 2015 Approved Budget: **\$953,500.00**
- **\$411,500.00** for Salt
- FY 2015 Costs
- 23 Events.
- **\$1,432,493.00** Total
- **\$457,644.00** for Salt

Snow Plowing Priorities

1. All Public Roadways
2. School Facilities and Municipal Buildings
3. Sidewalks that have been identified as “Walking Routes”

*****These priorities were established with cooperation of the School and Police Departments.*

Road Salting



Mixing Rate

- 100% Salt*

- *Special
Circumstances



Cost of *Salt* ???

- 2007 = \$54.00 per ton
- 2008 = \$70.20 per ton
- 2009 = \$64.00 per ton
- 2010 = \$47.50 per ton
- 2011 = \$48.20 per ton
- 2012 = \$47.20 per ton
- 2013 = \$ 47.20 per ton
- 2014 = \$ 63.00 per ton

25% Increase



www.clipartof.com · 7387

Environmental Concerns:

Rising Salt Levels in Water Supply

Well #3, Grove Street

D.E.P recommends < 20 ppm

- 2000 17.4 ppm
- 2008 43.8 ppm
- 2012 59.7 ppm

Storm Water Run-off to Surface Water



“Five Truck Route”

VS.

“Treating the Whole Town”

Treating the Whole Town:

14 Sanders	
Twenty-one Employees	\$4,620.00
400 Yards of Salt	<u>\$25,200.00</u>
Total:	\$ 29,820.00

“Five Truck Route”:

6 Sanders	
Seven Employees	\$1,540.00
120 Yards of Salt	<u>\$6,300.00</u>
Total:	\$ 7,840.00



Plowing



35 pieces of DPW Equipment “On Road” at one time

D.P.W.
Employees Cost
\$1,237.50 per
hour.



47 pieces of
“hired
equipment”

Contractors
Cost
\$7,450.00
per hour!



Cost Estimate of 6 Inch Storm

	<u>Cost</u>
Pre-Treat Town:	\$24K
Plow for 8 hours:	\$70K
Sand Town After:	<u>\$24K</u>

Total Cost: \$118,000.00

Sidewalks



Challenges

- Over 35 miles of sidewalks identified for snow removal operations.
 1. School walking routes
 2. Downtown areas
 3. High traffic / speed routes
- Mother Nature
 1. Timing of storm
 2. Length of storm
 3. Type of snow
 4. Amount of snow



Time to Clear Sidewalks

- Less than six inches of snow, snow plows are used.

1 day

- More than six inches of snow, snow blowers are used.

2-3 days





Picture taken 12/22/2009 @ 2:30PM on Brook St.

Goals:

- Be Prepared!
- Respond with the appropriate resources in a timely manner.
- Ensure that Emergency Vehicles can always respond during Snow / Ice Events.
- Provide safe passage of vehicles during Snow Fall.
- Have all roadways cleared, i.e. showing some asphalt, less than one inch of snow and ice within 4 hours after Storm Ends.

Items That can Effect Response

- Timing of Storm (day of week, hour of day)
- Duration of Storm
- Amount and Type of Precipitation
- Temperature during Storm
- Weather Pattern: Warm to Cold or Cold to Warm
- Frost on / in ground
- Month of Storm
- Recent Storm Activity

Preparing for Storm

- Watch Weather
- Equipment Readiness
- Availability of DPW Personnel
- Contact with other Town Departments
- Contact Contractors for Equipment / Personnel
- Availability of Supplies (Salt)
- Training and after-action reviews..... **Getting ready for the next one!!!**

No Salt Available at DPW Yard

- Safety of employees and residents
- DEP regulations
- Liability issues



Mailbox Policy



Basketball Hoop

**Not allowed in public
right-of-way**

**TOWN BYLAWS: PEACE
AND GOOD ORDER,
CHAPTER 125-4
Obstructing streets and
sidewalks**



Clear Fire Hydrants



Top 10 Complaints:

1. Plows keep putting snow in my driveway right after I shovel
2. My street is not down to asphalt, but others are.
3. There is more snow on my side of the road then the other
4. The roadway is too narrow, there is only enough room for one car
5. The snow banks are too high, I can't see on-coming traffic
6. You hit my mailbox, I can not get to my mailbox
7. I can't dig out / find the hydrant
8. You pushed snow up onto my property
9. The plow trucks are driving like 40 miles per hour!
10. When is it going to stop snowing?

Think Spring!



Chapter 147. Snow and Ice Removal

147-1. Time limit for Removal.

Owners of premises in which business may be conducted and which premises abut a public way shall, within 12 hours after a snowstorm, remove all accumulations of snow and ice from the sidewalk in front of said premises.

147-2. Violations and penalties.

Whoever violates the provision of § 147-1 above shall forfeit and pay for each violation a fine not exceeding \$25.

SIDEWALK PLOW ROUTES

~ Sidewalks: Business (8.5 miles)

~ Sidewalks: Residential

Structure

~ Roadway

**Total mileage of
sidewalks currently
plowed by DPW
(business and
residential)
= 41.5 miles**



Path: U:\e-gis\GIS\PM_SBS\GIS\PRODUCTS\OPN\HGR\WANSNOW_OPERATIONS\Plowing_Scheduling\Schedules\Schedule Commercial.mxd

A horizontal scale bar with tick marks at 0, 0.5, 1, and 2. The word "Miles" is written at the right end of the bar.

Wetlands Bylaw Proposal



Chapter 181-2, a new Paragraph D, as follows:

- D. Notwithstanding the above restrictions, the on-going maintenance of stormwater management systems by the Franklin Department of Public Works, when said systems were originally constructed or improved under the jurisdiction of the conservation commission or planning board, will not require additional permitting. Under this section, the term “on-going maintenance” shall mean the cutting and removal of vegetation, removal of collected sediment, or repairing and stabilizing eroded areas. If said basin is governed by other maintenance requirements of a system’s originally-approved long-term maintenance plan, said maintenance requirements may also be undertaken without additional permitting. Modifications to the design or function of a stormwater management system under the jurisdiction of the conservation commission will require a permit from the conservation commission for any such work. The burden of proof that any proposed work will not alter the design or function of the basin in question shall rest with the property owner.

The Director of Public Works shall notify the conservation commission annually of all anticipated work within any detention/retention basin to be carried out during the ensuing calendar year and the conservation agent shall be notified prior to the start of any actual work.

Solid Waste Recycling Contamination

Update

Contamination

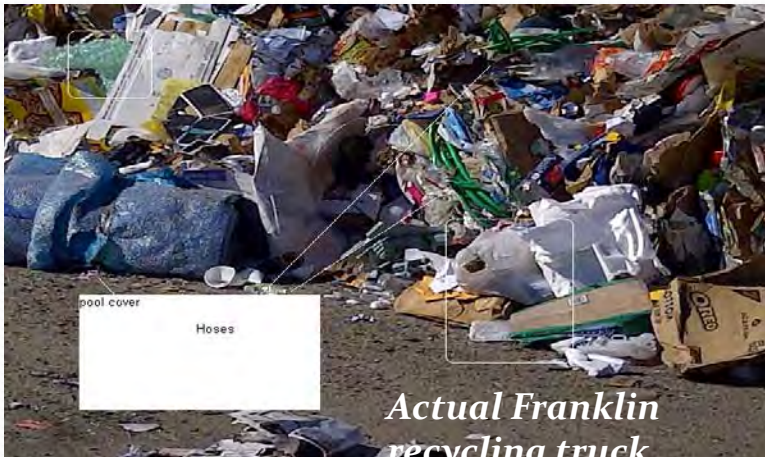


It starts at the cart,



and dumps in the truck,

Goes to the facility,



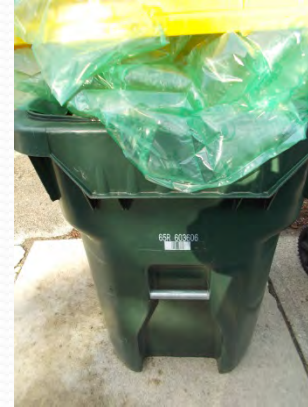
Actual Franklin
recycling truck
material



Then shuts down the plant.

Contamination Examples

- Plastic Bags, wrap or film
- Styrofoam
- Trash or Garbage
- Hazardous Waste and mercury items
- Yard waste
- *Anything not listed as acceptable materials list in the annual mailer and website*



How We Will be Measured

- *Random audits*
- There are material bays at the facility
- Franklin's recycling will be accumulated for about week
- The total material will be weighed first, then run through the plant by itself and the trash will be weighed
- Formula will be based on % of trash left

IN



RECYCLING



OUT

OR

TRASH



Questions?

