

## SANITATION DEPARTMENT



### REFUSE COLLECTION SERVICES

The City of Wilmington operates residential and commercial solid waste collection services. The city refuse collection crews put in a lot of effort to provide good, reliable and cost-effective trash removal service to our customers. This is a daily service which covers over 4000 residential and over 400 commercial customers each week.

This service is provided five days a week, 52 weeks a year with a very slight interruption due to holidays and weather.



The Sanitation Department also collects yard waste and tree branches along with large item pick up.

The Refuse Crews assist in many other daily functions of the Sanitation Department such as facilities maintenance, equipment maintenance, landfill operations and customer service requests.

Additionally, many times we are called upon to assist other departments when they are over-extended, such as for snow plowing.

The Collections Department consists of the following equipment:

- Three (3) 25-yard high-compaction refuse trucks
- One (2) 20-yard high compaction recycling trucks
- One (1) tandem axle dump truck (converted refuse truck)
- Two (2) single axle dump trucks
- Three (3) service pickup trucks
- One (1) sport utility vehicle

## **COMPOSTING**

The Sanitation Department operates an OEPA-approved Class 4 compost facility for the area residents. The compost collection service is provided free of charge to City of Wilmington residents. There is a cubic yardage charge for all Clinton County



residents who wish to bring bulk compost to the facility for tipping. We also accept commercial contractors' yard waste.

Each day the route truck collects the yard waste bags, or residents may bring in their yard waste, and it is then placed in the composting area. Accumulated brush, leaves, grass clippings and tree branches are ground into mulch. For 2016 the department hopes to retain the material, triple shred for a finished product, and make available for public resale. Over 5500 cubic yards of mulch was generated this past year.

In the past years, the M&R Department also used this compost facility for disposal of their yearly leaf collection.

## **DUMPSTER RENTALS**

The Sanitation Department continues a very successful dumpster rental program for our commercial customers. The department now rents over 300 commercial dumpsters that provide a high quality and convenient service.

This department also services and maintains these dumpsters in-house. In addition, our welding shop provides



dumpster repair, replacement for private owners, and other special fabricating.

The department has been renting out large dumpsters to individuals for clean-ups. This service has been well-received and provides another source of revenue to the department.



Our welding shop is used by all the city departments and is very well-equipped to handle almost any project.

In 2013, we acquired an abandoned building from the Wastewater Department known as the union hall to move our welding shop into. Currently this building is also utilized for the storage of the curbside

recycling “blue bins” and other equipment.

### **CURBSIDE RECYCLING**

In 2005, Wilmington started a voluntary curbside recycle program with the “blue bag” program. This program struggled in the past to maintain a decent participation percentage. We applied for a grant through the Ohio Department of



Natural Resources (ODNR). In April 2010, we received the \$150,000.00 grant, which allowed us to purchase curbside bins and a 2007 G&S recycling truck.

On December 6, 2010, we started using the new truck and bins. To this date, our residential participation has gone from 8% to 46%. We have now delivered almost 1,800 bins to the residents of

Wilmington and our program continues to increase.

In 2014, the City again applied for the ODNR Community Development Grant and was awarded. The funds will help expand the program to allow recycling options for Wilmington’s small businesses and multi-family housing. Additional equipment upgrades, recycling containers and site improvements will also be purchase with grant proceeds.





In 2012, we entered into a contract with Abitibi-Bowater, a large recycling materials broker, to purchase the City's recyclables. They supplied roll-off containers, the trucking, and paid the city a premium price for recyclables at \$42.50 per ton. Unfortunately, in October 2014, we received news that Abitibi had been sold and all operations dissolved. The City, along with other local entities, was stuck with all of the material and no outlet. As a temporary solution, the Department has been working with Rumpke Waste for the service and removal of the material. The material no longer generates revenue and the service charges are expensive, resulting in a loss to the program. The department is actively searching for a service much like Abitibi to return the recycling program to financial balance.

### **CARDBOARD RECYCLING**

In the early summer of 2015 the department adopted a bulk corrugated cardboard drop-off site. This was an effort to capture excess cardboard from going into the landfill in result of the Clinton County Solid Waste District shutting down their cardboard drop-off.

With promotional help from local citizens, and an old cardboard baler that was repurposed at our facility, we are successfully recycling the material. There is a slight revenue stream with the material as it can be sold on the open market for a (per ton) amount.

As of Dec. 2015 we have recycled 9 tons of cardboard or 18 bales. The market price for baled cardboard as of Dec. 28 2015 is \$65.00 per ton.

## LANDFILL DEPARTMENT

In 2009, the first stage of a four-stage vertical expansion was completed at the City owned landfill. In the spring of 2014, construction began on Phase 4 of the expansion. RB Jergens Contractors were awarded the job and exceeded expectations of the cell construction, completing the project in early fall. In the fall of 2015 we entered into the phase 4 expansion placing waste along the Southeast slope. We will remain in phase 4 through 2016.



Phase 4 is roughly a three-acre site that is situated on the southeast side of the old capped landfill. This design of the vertical expansion allows the city to recapture airspace above the old clay-lined fill without increasing the overall footprint of the total landfill. The total vertical expansion plan was developed of five phases, with the expected full capacity in 2021.



## LANDFILL OPERATIONS

The City Landfill is licensed by the Ohio EPA to accept up to 195 tons of waste per day. The city-operated collection service generates on average 32 tons per day. Other miscellaneous daily waste generates approximately 65 tons, for an average total daily disposal of 95- 100 tons. For the spring and summer of 2015 we received an entire city block of demolition material for the new construction of CVS, and demolition material from Wilmington College.





In 2009, we acquired a newer track loader, an excavator, and a used off-road haul truck for our landfill operations. Although this equipment is in good shape, it was used equipment when purchased and continued repairs are costly. Recently the off-road haul truck had a major failure to the drive-train, resulting in the purchase of a new truck. In December 2014, we purchased a 2012 Volvo A-30F articulated truck. This machine has low hours and should serve the landfill well for many years. Currently all landfill equipment is in good operating condition. The older bulldozer and compactor are much higher in operating hours; however, they still run well. For 2016 we are hoping to acquire a newer, larger D5 Cat dozer. When we went to this newer equipment, we updated by several years. We can operate much more efficiently and with lower fuel costs. This equipment has already proved to be beneficial to other city departments as well.



The Landfill Department has 8 pieces of heavy equipment

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| 1 (one) CAT 963C track loader           | 1 (one) CAT DC3 bulldozer          |
| 1 (one) BOMAG compactor                 | 1 (one) Kobelco 250LC excavator    |
| 1 (one) Case backhoe                    | 1 (one) John Deere tractor & mower |
| 1 (one) Volvo A-30F off-road dump truck |                                    |

## DEPARTMENT EMPLOYEES

This department operates with sixteen fulltime employees, 52 weeks a year, five days a week, including holidays.

Occasionally we use the W.E.P. program (Work Experience Program) through Job and Family Services for litter control, recycling work, and other duties as needed. We also work in conjunction with the court systems and use people that are required to do community service.

## **OTHER MISCELLANEOUS INFORMATION**

Due to the downturn of the local economy, we have been searching for new means of revenue and ways to cut back.

We did reduce our state and local fees by separating our recordkeeping on construction and demolition materials from the solid waste materials.

In 2012, we started accepting trash from outside our district, which brought in more revenue and provided a cost savings to the respective districts in terms of fees. We continued this in 2015. We increased our tipping tonnage on average 25-30 tons per day, which was much needed for helping with operational costs.

With the installation of scales in 2012, most of the trash received in the landfill during 2013 was by weight and not by volume. This had proved to lower our revenue. For 2013, we redeveloped our fee structure for the different types of waste hauled in and charged accordingly by either weight or volume. This new fee schedule has helped with the airspace-to-revenue ratio. Operational and expansion costs for the landfill are very expensive and we simply do not take in enough waste absorb these expenses.



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The Landfill Department is facing a very critical turning point for 2016. The decision for the proposed West Landfill Expansion must be made in order to fulfill the engineering, permitting, and funding measures needed to be completed before our current landfill is at capacity (year est 2021).

*Submitted by:*

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Department of Sanitation