

A yellow municipal waste truck is the background of the slide. The truck has several slogans on its side: "MUNICIPAL WASTE", "SAVE OUR TOMORROW... RECYCLE TODAY!", and "737 LANCASTER AVE. ARDMORE, PA. 19003". The number "5955" is visible on the side of the cab. The truck is parked in a dark area, possibly a garage or a night street, with some lights visible in the background.

LOWER MERION TOWNSHIP PUBLIC WORKS

Revised Refuse and Recycling Routes

Presentation by

Donald Cannon, Director of Public Works

Introduction/Overview

- Work made possible thanks to Rob Philips GIS technician, Interns Austin Schneck and Drew West, and the entire Refuse and Recycling Staff.
- The purpose of the study was to align refuse and recycling collection on the same day to address suggestions raised by residents.
- Review and align all collections routes for greater efficiency.
- Analyze and improve holiday collection routes.

History of LMT Refuse and Recycling

- The PADEP-mandated recycling collection was added to refuse collections in 1989.
- To accomplish the collection, 70 full time employees, 10 daily refuse routes, and 4 daily (bi-weekly) recycling routes were utilized in 1989.
- Since 1989, staff and equipment reductions have occurred due to improved equipment and reduced tonnages of municipal solid waste.
- Current collections utilize 42 full time employees, up to 8 part time employees, 6 daily refuse routes and 4 daily recycling (bi-weekly) routes.
- To minimize resident impacts, route reductions and reassignments occurred over the years without changing collections day or week.

Maximizing efficiencies, reducing costs

- Equipment: Research and purchase trucks with greater cargo capacities



Maximizing efficiencies, reducing costs

- Equipment: Research and purchase trucks with greater cargo capacities



Maximizing efficiencies, reducing costs

- Equipment: Research and purchase trucks with greater cargo capacities



History of LMT Refuse and Recycling

- Waste and recycling statistics vary with consumer behavior and packing methods.
- Greater use of light weight plastic pouches show trend in reduction of weight in both the refuse and recycling streams.
- Rise of Internet shopping has resulted in the increase of high-value paper collected, justifying the Township's current dual-stream recycling program.

	Refuse (tons)	Recycling (tons)
2002	19,087	6,950
2016	15,625	6,664

Comparison of 2002 & 2016 Refuse & Recycling (Tons/Year)

Moving Forward

- Staff and equipment has been right-sized as equipment has improved.
- Routes revamped without impact to current schedules.
- Now is the right time to align collection routes to better serve our residents.

Proposed 5 Day Collections

Current 5 Day Collection Method

- Developed over 27 years ago
- 2,440 properties with recycling & refuse collections not on same day of the week.
- Trucks have scattered routes throughout day.
- Some residents look across their street to neighbors who receive collection on a different day of the week.

Proposed 5 Day Collections

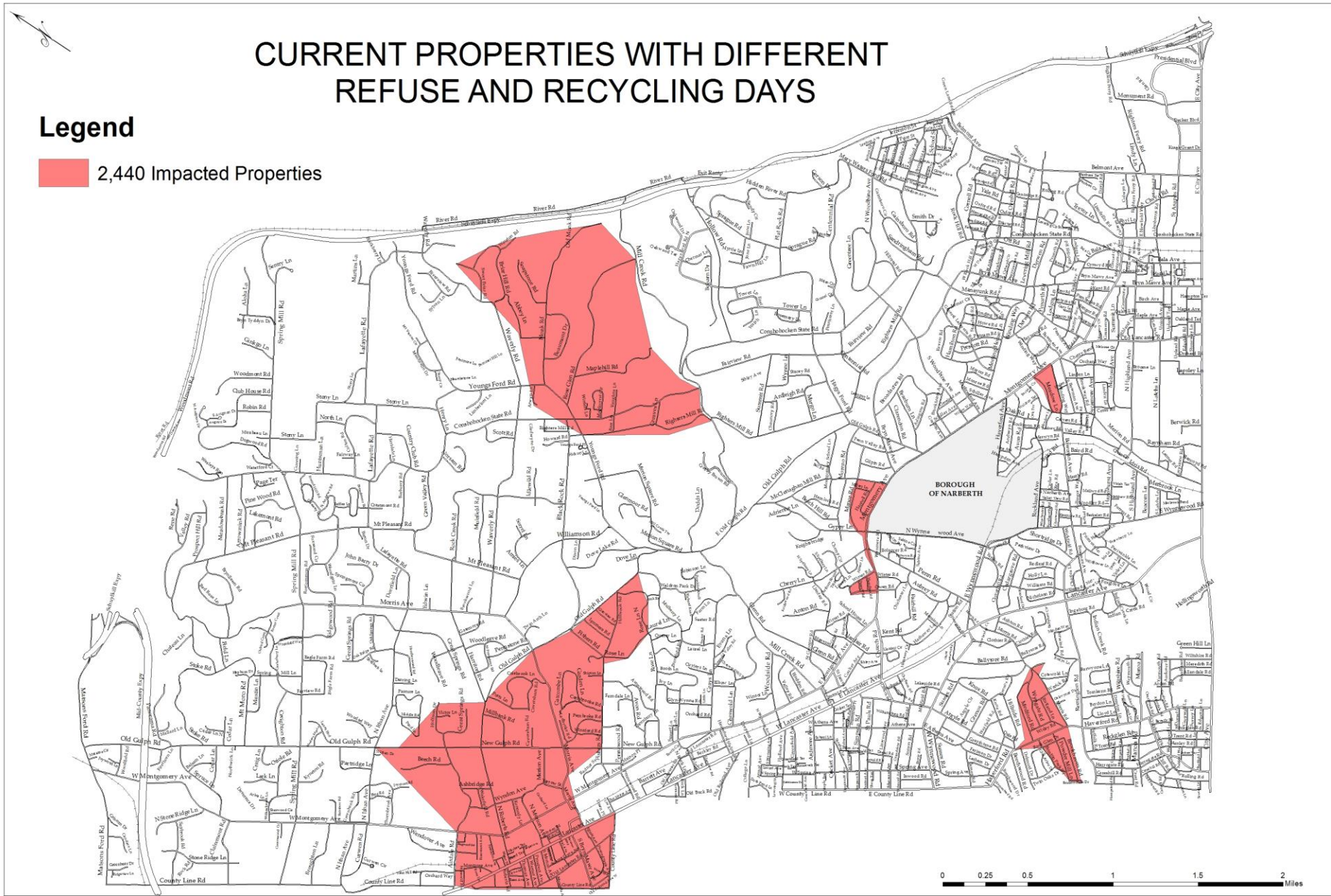
Proposed 5 Day Collection Method

- Optimized for driving efficiency and balanced can count (based on current subscriptions).
- ~1,200 properties will have a new refuse collection day, and 3,541 properties will have a change in recycling collection day and/or collection week (A or B week).
- Compact routes reduce overall mileage per truck/day.
- Recycling & Refuse collections for all residents now occur same day (A and B week recycling collection remain).

CURRENT PROPERTIES WITH DIFFERENT REFUSE AND RECYCLING DAYS

Legend

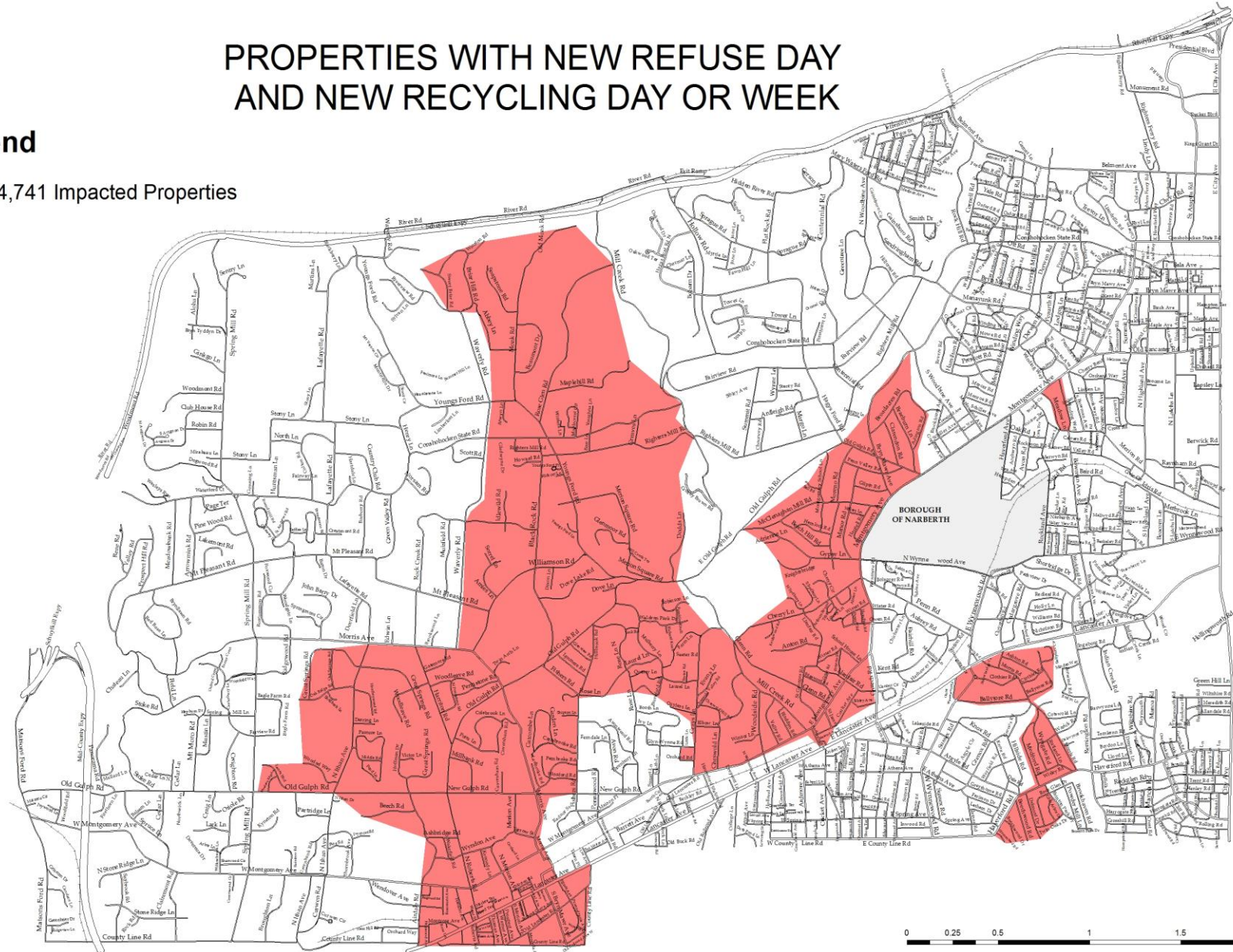
2,440 Impacted Properties



PROPERTIES WITH NEW REFUSE DAY AND NEW RECYCLING DAY OR WEEK

Legend

 4,741 Impacted Properties



OLD ROUTE



NEW ROUTE



New 4-Day Holiday Collection Method

(Occurs 7 times a year)

- Wednesday collection area (Ardmore area) dispersed throughout the four collection days.
 - Occurs in the middle of the week, can be offset early (Monday or Tuesday) or later (Thursday or Friday), 5 to 9 days between collections.
 - ~3,500 households having collections schedules 1-2 days earlier or later than normal.
- Ensures trash and recycling occur on same-day collection during 4-day holiday collection week.
- With this new schedule, Blackboard Connect messages will be able to go out each holiday week advise of collection schedule.

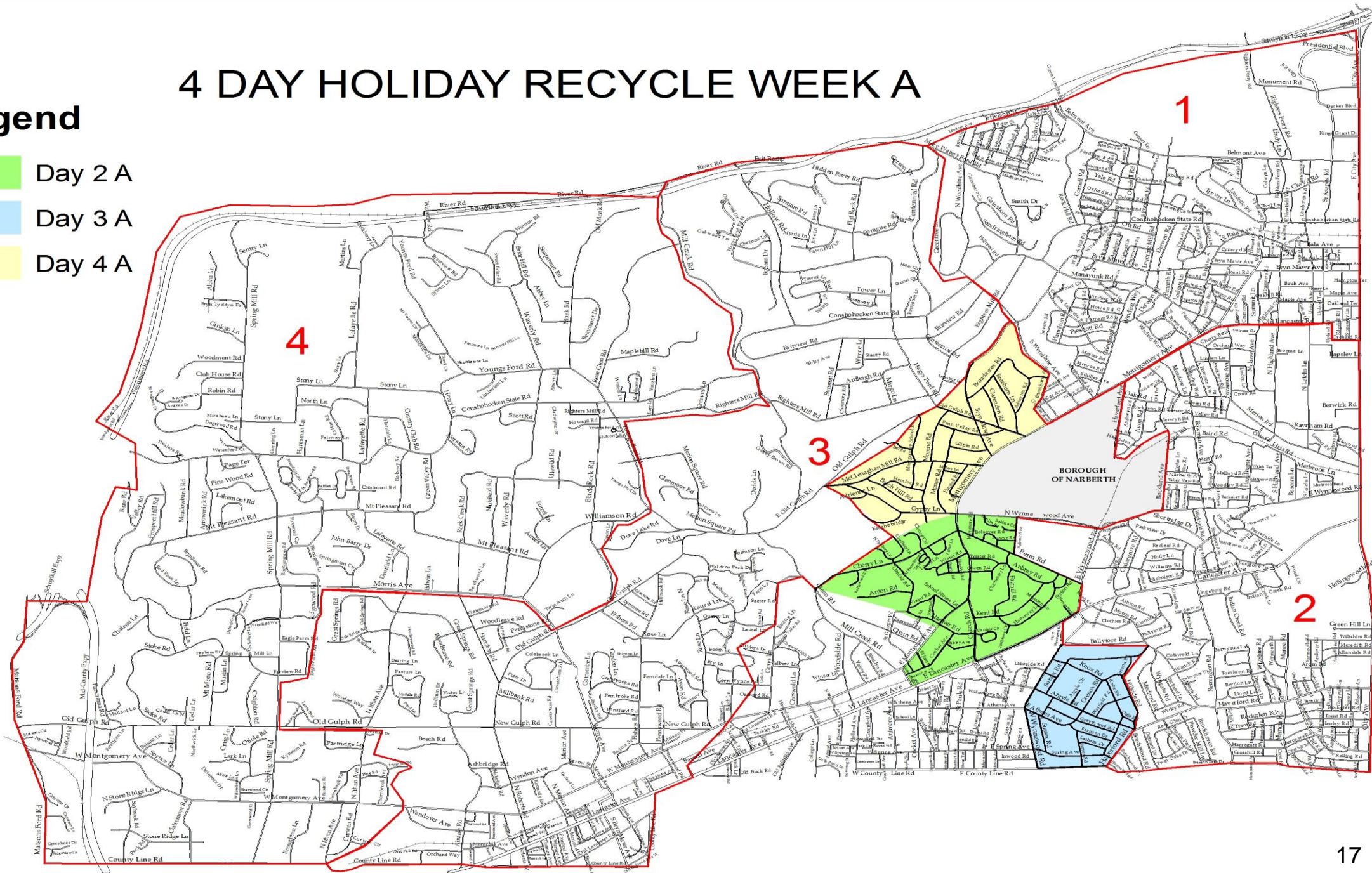
HOLIDAY RECYCLE A

DAY 1 OF HOLIDAY	DAY 2 OF HOLIDAY	DAY 3 OF HOLIDAY	DAY 4 OF HOLIDAY
Monday Collection Route	Tuesday Collection Route	Thursday Collection Route	Friday Collection Route
	WEDNESDAY – GREEN	WEDNESDAY – BLUE	WEDNESDAY - YELLOW

4 DAY HOLIDAY RECYCLE WEEK A

Legend

- Day 2 A
- Day 3 A
- Day 4 A



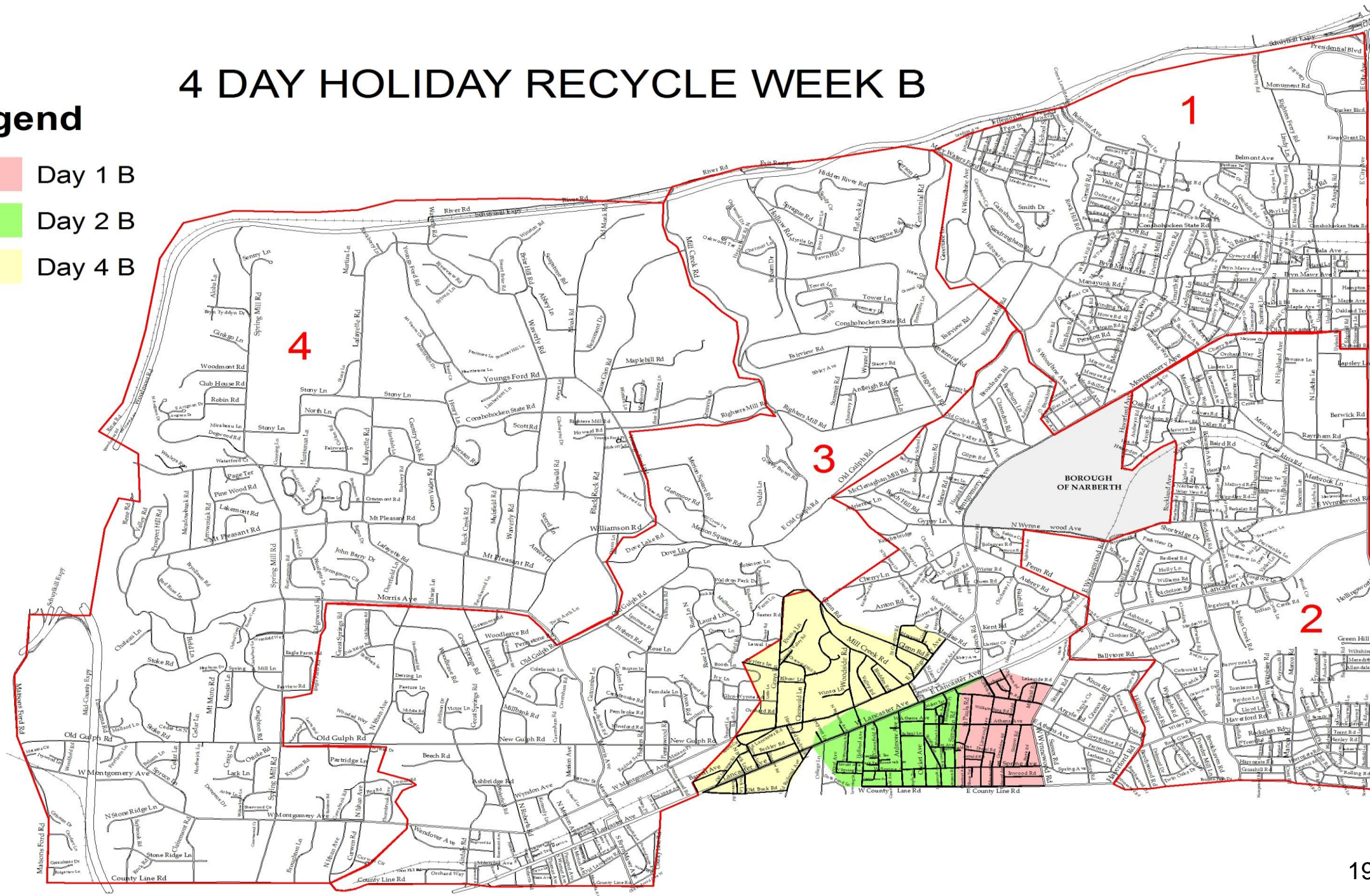
HOLIDAY RECYCLE B

DAY 1 OF HOLIDAY	DAY 2 OF HOLIDAY	DAY 3 OF HOLIDAY	DAY 4 OF HOLIDAY
Monday Collection Route	Tuesday Collection Route	Thursday Collection Route	Friday Collection Route
WEDNESDAY – RED	WEDNESDAY – GREEN		WEDNESDAY - YELLOW

4 DAY HOLIDAY RECYCLE WEEK B

Legend

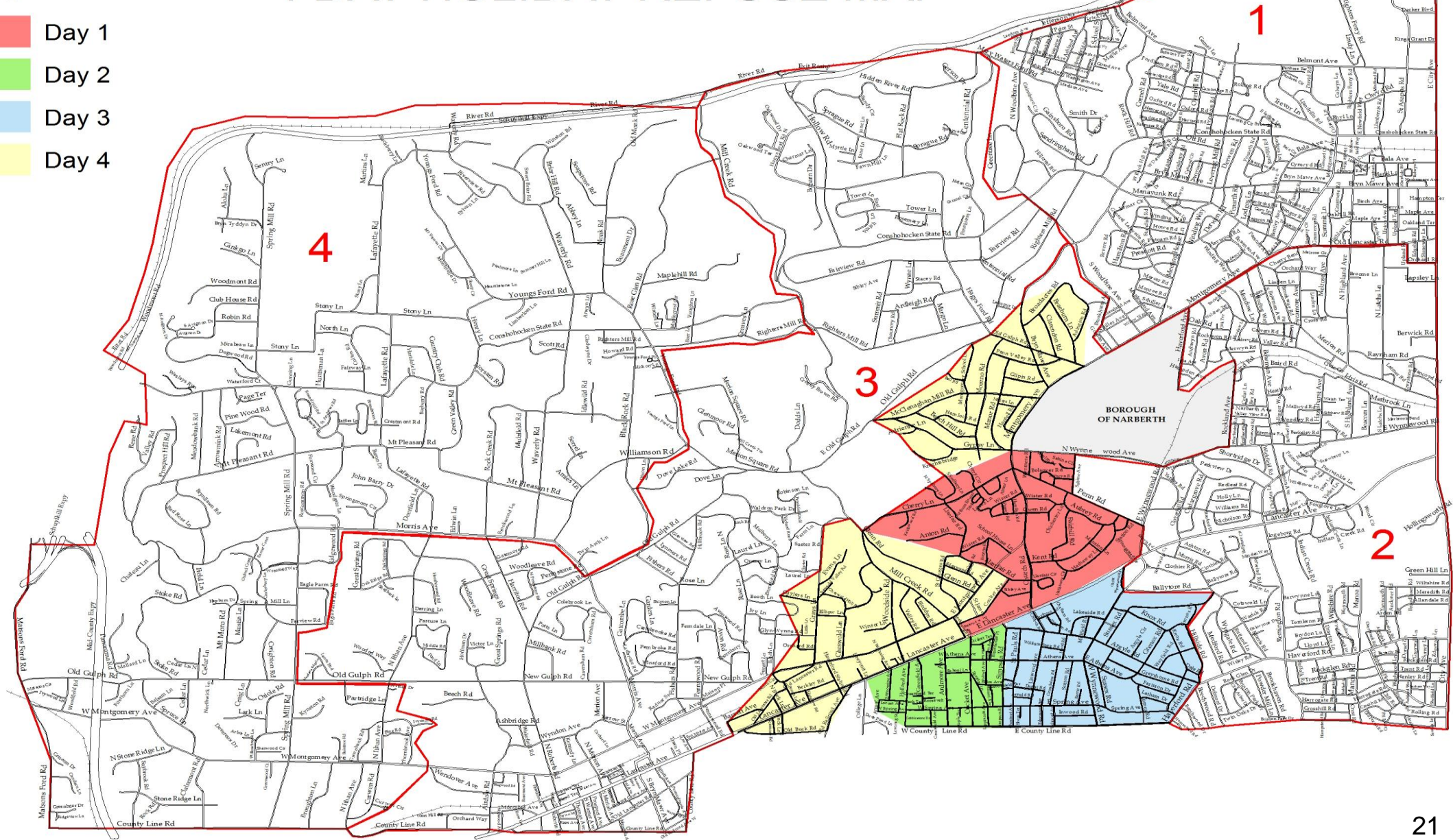
- Day 1 B
- Day 2 B
- Day 4 B



HOLIDAY REFUSE

DAY 1 OF HOLIDAY	DAY 2 OF HOLIDAY	DAY 3 OF HOLIDAY	DAY 4 OF HOLIDAY
Monday Collection Route	Tuesday Collection Route	Thursday Collection Route	Friday Collection Route
WEDNESDAY – RED	WEDNESDAY – GREEN	WEDNESDAY - BLUE	WEDNESDAY - YELLOW

4 DAY HOLIDAY REFUSE MAP



Summary

The proposed routes will:

- Schedule refuse and recycling collections for all residents on the same day.
- Ensure neighbors on both sides of any street will have the same collection.
- Condenses collection areas, allowing for more efficient coverage when equipment fails.
- Reduce mileage of collection equipment on Township roads
 - Reduced fuel costs
 - Reduced wear on Township trucks
 - Reduced wear on Township roads

Next Steps

- Township staff seeks concurrence of the Board of Commissioners to establish revised regulations setting forth the manner, days, and times of collection of recycled and non-recycled waste.
- Create promotional material to provide the new route information to the residents.
- Allow for a 30-day comment period from residents.

Next Steps

- Implement new routes in February 2018.
 - Historically the lightest tonnage collected.
 - Allows for adjustment period.
 - First holiday impacted is Memorial Day.