

Upper Darby Township

Environmental Advisory Committee

April 28, 2008

Upper Darby Township Recycling Update

- Current system is multiple products: paper and aluminum
- Current system requires a separate pass with a Township vehicle for each product.
- Several drop off locations in the Township for glass,& plastic
- No hard data on the number of Township units (households) that actually recycle.

Upper Darby Township
Recycling Update

- 27,589 units (households) - trash/recycling in Township
- North of Garrett Road 13,910 units 50.42%
- South of Garrett Road 13,679 units 49.58%
- Recycle each route every other week
Approximately 20 times each route (holidays, etc.)
- Each trash truck can accept 13,000-22,000 lbs. before going to transfer station
- Currently each trash truck makes two passes on a route:
one paper, one cans

Upper Darby Township Recycling Update Past Data

	Tons	Tons	Average #
Paper and Aluminum	2006	2007	Units
North Side of Garrett	1,200	1,111	13,910
South Side of Garrett	643	598	13,679
	1,843	1,709	27,589
Per House Average	Pounds	Pounds	
	2006	2007	
North Side of Garrett	172.5	159.7	
South Side of Garrett	94.0	87.4	
Average Township wide	133.6	123.9	

Upper Darby Township Recycling Update Past Data

Per Unit	Ave # Units	Pounds		
		2006	2006	2006
			Month Ave	Pick Up *
North Side of Garrett	13,910	172.5	14.4	8.6
South Side of Garrett	13,679	94.0	7.8	4.7
Average Township wide	27,589	133.6	11.1	6.7
		Pounds		
		2007	2007	2007
			Month Ave	Pick Up *
North Side of Garrett	13,910	159.7	13.3	8.0
South Side of Garrett	13,679	87.4	7.3	4.4
Average Township wide	27,589	123.9	10.3	6.2
* 20 pick-up's annually				

Upper Darby Township Recycling Update

- What kind of increase in household recycling can be expected from going to single stream.
- Similar urban areas have seen an increase in tonnage of 40% when they have changed from dual to a single stream recycling program

Upper Darby Township Recycling Update

	Tons	Tons	40% increase	Average #
Paper and Aluminum Cans	2006	2007	2008 proforma	Units
North Side of Garrett	1,200	1,111	1,555	13,910
South Side of Garrett	643	598	837	13,679
	1,843	1,709	2,393	27,589
Per House Ave	Pounds	Pounds	Pounds	
	2006	2007	2008 proforma	
North Side of Garrett	172.5	159.7	223.6	
South Side of Garrett	94.0	87.4	122.4	
Average Township wide	133.6	123.9	173.4	

Upper Darby Township Recycling Update

- 2007 multiple rate \$52/ton – paper and aluminum
- Current multiple rate, paper \$85 ton , cans \$65 ton
- Single stream products paper, cans – aluminum, tin, steel - glass bottles, jars, plastic narrow neck bottles 1 & 2
- Proposed single stream Accurate - \$30.00/ton
- Proposed single stream Blue Mountain- \$35.26/ton
- If we expand recycling, need to purchase new 20 gallon recycling containers at a per container cost of \$8.00 - 30,000 containers = \$240,000.
- Township will continue to use the current blue recycling containers in stock.

Upper Darby Township Recycling Update

- Considered the concept of Recycling Bank
- Recycling Bank rewards homeowner for participation in the recycling program. Points/gift system.
- Complicated program -- Vehicles would have to be retrofitted with scales on each truck.
- Each recycling can would have to carry a chip specific to the household. This chip matches up to the weight of the can.
- We are not prepared to go with the level of recycling at this time.

Upper Darby Township Recycling Update Assumptions

- Single stream blended per ton rate is less than current multiple pick up rate
- Fair assumption - to expect increase in recycling tonnage. We used 40 % increase in recycled tonnage.
- Single stream one pick-up
- Multiple pick-up, speaks for itself. The trucks make several passes on a location.
- Accurate --- single stream located on Baltimore Ave –Fernwood section Upper Darby Township. Shorter travel time.
- Blue Mountain --Single stream, longer travel time, assumed this can be done in normal work day, increase in operation cost. Assumed the work force will make two trips to plant for single stream. Ellsworth plant is 14 additional miles per round trip compared to Fernwood location. Average cost is \$8.50 per mile.
- Either option will have a one time expense for purchase of new storage cans.

Upper Darby Township Recycling Update Single Stream Annual Pro-Forma Blue Mountain recycling

					2008 Operation cost	
		Tonnage	Rate/ton	Revenue	Recycle days **	short fall
Actual 2006		1,844	\$52.00	\$95,888.00	\$489,306.36	-\$393,418.36
Actual 2007		1,709	\$52.00	\$88,868.00	\$489,306.36	-\$400,438.36
Estimated 2008	paper	1,628	\$70.00	\$113,960.00		
	cans	81	\$65.00	\$5,265.00		
		1,709	\$69.76	\$119,225.00	\$489,306.36	-\$370,081.36
pro-forma- single	Delta					
increase of 2008	40%	2,393	\$35.26	\$84,363.08	\$489,306.36	-\$404,943.28
Breakeven 2007	47%	2,520	\$35.26	\$88,868.00	\$489,306.36	-\$400,438.36
* Recycle day is the total annual cost to operate township recycling operations--						

Upper Darby Township Recycling Update Single Stream Annual Pro-Forma Accurate Recycling

Accuarte						
					2008 Operation cost	
		Tonnage	Rate/ton	Revenue	Recycle days ***	short fall
Actual 2006		1,844	\$52.00	\$95,888.00	\$356,026.36	-\$260,138.36
Actual 2007		1,709	\$52.00	\$88,868.00	\$356,026.36	-\$267,158.36
Estimated 2008	paper	1,628	\$70.00	\$113,960.00		
	cans	81	\$65.00	\$5,265.00		
		1,709	\$69.76	\$119,225.00	\$356,026.36	-\$236,801.36
pro-forma- single	Delta					
increase of 2008	40%	2,393	\$30.00	\$71,790.00	\$356,026.36	-\$284,236.36
Breakeven 2007	73%	2,962	\$30.00	\$88,860.00	\$356,026.36	-\$267,166.36
* Recycle day is the total annual cost to operate township recycling operations--						

Upper Darby Township Recycling Update

Cost Options for consideration:

Accurate – current option just paper and cans
Unfunded Cost: (\$236,800)

Accurate – single stream at \$30.00 per ton
Unfunded cost: (\$267,166)

Blue Mountain – single stream at \$ 35.26 per ton
Unfunded cost: (\$404,943)

Difference between two single stream options based on
travel time and cost.

Cost of new containers: \$240,000.

Upper Darby Township Recycling Update

- Consider economic and environmental options in moving to single stream recycling.
- Understand that single stream recycling is not a money making option for the Township.
- If Single Stream is the choice fine tune agreement with Blue Mountain and Accurate before making final decisions on vendor.
- Education program to increase participation of household recycling -- Immediate Action
- Education program to increase participation of commercial recycling. – Immediate Action

Upper Darby Township
Recycling Update
Commercial

- Act 140 requires municipality to have a business recycling education program with at least one target letter to commercial operation each year. UDT accomplished this in January 2008. May need more education.
- Need to increase our commercial recycling tonnage.
- Include commercial operations in the township recycling outreach/education programs.

Upper Darby Township Recycling Update

- Environmental Advisory Committee should consider information presented.
- Environmental Advisory Committee- report/recommendation to Council.
- If Single Stream is the recommendation --- Understand logistics related for notification of current and future recycling vendors, purchase of additional containers & distribution, notification to the Township residents, and staffing requirements suggest the Township make this switch after October 1, 2008. Consider January 1, 2009.
- Depending on recommendation Administration would need to go to the next level of contract discussion with Blue Mountain or Accurate before making final decisions on vendor. Administration handles contract talks for Township business.
- Apply for grant to fund the cost of purchasing recycling containers. “Pennsylvania Recycling Development and Implemental Grants.” Recycling Grant 902.
- Environmental Advisory Committee to develop education awareness program for residents and commercial operation. Senator Erickson Grant

Upper Darby Township
Recycling update

Summary

- Yes/ No single stream recycling
- Increase education recycling program to Township residents and commercial operations.
- Amend appropriate Township ordinances to reflect collection changes.