



Memorandum

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April 10, 2017

TO: Pat Urich and Scott Reeise, City of Peoria

CC: Joshua Gabehart, Jennefer Klennert, Foth Infrastructure & Environment, LLC

FR: Dan Krivit, Foth Infrastructure & Environment, LLC

RE: Solid Waste Program Case Studies from Other Communities
in the Central Illinois Region

Executive Summary

The City of Peoria's Solid Waste Management Services Agreement ("Agreement") with PDC Services, Inc. (PDC) expires on June 30, 2019. In this memo, Foth summarizes a review of other communities' residential solid waste and recycling programs within the central Illinois region. The primary objective of this review is to document other communities' solid waste contract structures and program designs. A secondary objective was to compare solid waste rates in other communities. This memo is prepared for the City as possible options for future solid waste services are considered.

In general, Peoria's overall solid waste program operated by PDC is very robust and compares very well with the other communities reviewed. Weekly collection of trash via wheeled, lidded carts is consistent with state-of-the-art industry standards. Yard waste collection, with carts as an option, during the specified season and the large, bulky items collection service both provide added value to residents. Peoria has a large array of additional services (e.g., collections from City Buildings, servicing neighborhood clean-ups, etc.) that rounds out the overall program into a comprehensive solid waste system.

The current solid waste rate charged to Peoria residents on the property taxes of \$14 per household per month is a very competitive price compared to the other Central Illinois communities reviewed. The residents of Peoria receive a comprehensive solid waste program with a multitude of services. A summary of solid waste programs offered to Peoria and other central Illinois communities is included in Table 1 at the end of this memorandum.

Nearly all communities reviewed require commercial establishments to arrange for their own solid waste and recycling collection operations with the exception of various sized apartment buildings complexes.

Peoria's monthly residential recycling collection frequency is no longer standard in the industry. To improve convenience to residents, all other central Illinois communities researched have either every other week or weekly curbside recycling collection service. Higher participation and recovery levels may be achieved if the recycling collection frequency can be brought up to industry standards. The recent *2016 State of Curbside Report* produced by the Recycling Partnership found that 54% of the communities surveyed nationally have weekly curbside recycling collection. The Recycling Partnership report also looked at curbside programs with every other week frequency and found a slightly lower recovery rate. Programs with monthly collection frequency were not reported.¹

Recycling carts are also the standard in the industry for both contracted and non-contracted recycling programs. Peoria's \$50 refundable recycling cart deposit fee while similar to a few other central Illinois communities, is not an industry standard and may be considered a financial disincentive for some households to participate. The costs of purchasing and managing recycling carts, like trash carts, are typically included in the base trash collection rates or financed from other alternative sources.

The City of Peoria's yard waste collection program is characteristic of other central Illinois communities reviewed. The collection operating standards and preparation instructions for residents are very consistent with other communities. The yard waste collection season start and end dates cover a typical growing season in the central Illinois region, but some communities have more extended seasons or offer premium, year-round service options.

The City's collection system with unlimited collections of bulky items at no additional charge to residents is more comprehensive as compared to other central Illinois programs. The current bulky item service, together with other miscellaneous services (e.g., neighborhood clean-up services) and base rate charged by the City provides a very high value to Peoria residents relative to many of the other central Illinois communities reviewed.

Introduction

Foth conducted a review of other communities' residential solid waste programs within the central Illinois region. The primary objective of this review was to document other community solid waste contract structures and program designs. Key program variables reviewed included:

- ◆ Municipal vs. private operations
- ◆ Contracting methods
- ◆ Frequency of recycling collection
- ◆ Trash and recycling cart size and ownership
- ◆ Cart funding mechanisms
- ◆ Length of yard waste collection season
- ◆ Trash and recycling rates as charged to residents

These case studies can help determine the level to which the City of Peoria is currently providing industry standard levels of residential collection service as compared to the regional marketplace in central Illinois. Each community is unique and will have their own historical legacy about their individual approach and methods of residential solid waste management services. When attempting to compare rates or program performance in a quantitative manner, comparisons must consider this uniqueness. This review of selected central Illinois communities can help Peoria compare the level of service and general competitiveness of the City's solid waste collection system.

Methods

Foth generated this memorandum by first reviewing the data as prepared by Peoria City staff in July 2016 comparing Peoria's solid waste management services to other communities in central Illinois. Foth also reviewed the report prepared by the City of Bloomington, IL, "*Solid Waste Analysis*" (2013) that included a more in-depth survey of solid waste / recycling programs from nine (9) other Central Illinois communities.² Foth then conducted a series of web searches and phone interviews to provide updated information.

This review was not intended to be a strict benchmarking analysis of rates, costs or program performance data. Rather, the methods used were intended to provide a summary comparison of program structure, providers and service levels. This review of rates should not be used to predict additional costs or savings to Peoria due to the unique history and numerous program variables of each community's solid waste system.

Background - City of Peoria's Program Description

The City of Peoria uses contracted services from a single hauler, PDC, for a comprehensive array of solid waste collection services. The current PDC Agreement for collection services expires on June 30, 2019.³

Residential Waste

The City currently collects a solid waste collection service fee of \$14 per household per month. Stacked Condominiums currently pay \$6 per unit per month. These revenues are used to pay for PDC services. Residential collection services are limited to single-family homes and buildings with up to four (4) units. Landlords/owners of larger apartment complexes that are not included as Stacked Condominiums must contract for their own solid waste and recycling collection services as commercial generators.

One roll-out cart for each residential household was purchased by PDC on behalf of the City in 2012. Under a separate Roll-Out Waste Container Agreement, the title to the carts will be conveyed from PDC to the City upon final payment by the City to PDC. This final payment is currently scheduled for June 2020.⁴

Recycling Services

Recyclables are currently collected monthly by PDC at no additional charge to residents. Residents must pay a \$50 cart deposit to sign up for recycling and receive a cart. A large (95-gallon) recycling cart is provided by PDC. Carts are required for recycling.

PDC's "Curbside Recycling Program" flyer⁵ states:

"Monthly curbside recycling is free of charge to all residents in the City of Peoria. When you register, however, you will make a one-time refundable deposit of \$50 to cover the cost of a 95-gallon roll-out cart. If you elect to stop recycling, this deposit will be returned to you once your cart is returned to PDC."

Carted curbside recycling began in 2010 with 3,000 households or 8 percent participation. In 2017 recycling participation has increased to 10,317 households or 26 percent participation. In order to boost recycling participation, PDC and Peoria County have occasionally run promotions and waived the \$50 deposit as a means to remove the financial burden of the deposit and allow lower income residents to participate.

Yard Waste

Yard waste (or Landscape Waste) is collected curbside weekly during the season of April 1 to December 7 at no additional charge. Yard waste must be placed on the curb in marked containers or compostable bags.

Bulky Items/Other Services

PDC will pick up contained large, bulky household items upon request at no additional charge. These bulky items include furniture, appliances, mattresses, etc., that are too large to fit into the trash cart.

Additional collection and trucking services that are included in the Peoria - PDC Contract include:

- ◆ Collection of trash and recyclables (at an additional charge) from specified Stacked Condominiums.
- ◆ Collection of trash and recyclables (at an additional charge) from City Buildings.
- ◆ Delivery, removal and material disposal via roll-off boxes for neighborhood clean-ups.
- ◆ Trucking of tires for recycling via drop-boxes and a parked semi-trailer.
- ◆ On call pick up and disposal of dead animals less than 50 pounds located on public right-of-ways.

A complete summary of the services for the City of Peoria is contained in the Foth Memorandum *Solid Waste Services Agreement Memo* dated February 20, 2017.

City of Bloomington

Bloomington handles solid waste management services in-house within the City's Department of Public Works. Generally the City's solid waste program is targeted towards traditional residential households, but the City also allows apartment complex owners to opt-in to the full array of collection services.⁶

Residential Waste

Effective May 1, 2016, the City adopted the following variable “Pay As You Throw” fee structure for trash collection rates:

- ◆ 35-gallon cart: \$16 per household per month
- ◆ 65-gallon cart: \$21 per household per month
- ◆ 95-gallon cart: \$25 per household per month.

City-issued carts are required. However additional residential waste can be disposed of in a plastic bag weighing less than 35 pounds with a \$3 per bag sticker.

Recycling Services

Recycling collection is every other week. The City initially issued one recycling cart to all eligible households at no added charge to residents. The City will provide an additional recycling cart for a one-time fee of \$60 upon request.

Bloomington staff also collect recyclables from more than 40 locations including: schools, government offices, downtown area and Illinois Wesleyan off-campus housing.

Yard Waste

The City does not pick up grass clippings, but it does pick up brush such as limbs, prunings and garden trimmings at no added cost to residents. This service is part of the City’s unique “Bulk & Brush Collection” service and is described further in the next section.

Bulky Items/Other Services

The Bulk & Brush Collection service utilizes a front end loader to collect bulk waste (including furniture, limited construction & demolition debris, etc.) and brush. The Bulk & Brush Collection schedule allows residents to set out bulk and brush every other week (on the alternate weeks to recycling collection) on the boulevard right-of-way.^{7, 8}

Bloomington staff will collect up to one loader bucket of bulk waste and brush at the curb at no additional charge to the resident. If there is additional bulk waste or brush to collect, the resident or owner will be charged \$25 for each loader bucket of material or pickup truckload). The additional fee will be included on the resident’s next water bill.⁹

The City also operates a recycling and yard waste drop-off site near the Public Works building for disposal of appliances, landscape waste and grass clippings. The site accepts one pickup truck load per household per drop-off visit without charge. Contractors are excluded from using this drop-off site.

City of Champaign

The City of Champaign uses an open hauling (or subscription) system for solid waste management services. Residents or building owners of single-family homes up to four (4) units per building must select their own hauler for trash pickup from a list of city-licensed haulers.

The City of Champaign web page currently lists eight (8) licensed haulers:

- ◆ ABC Sanitary Hauling
- ◆ Advanced Disposal
- ◆ Allied Waste (now known as Republic Services)
- ◆ Area Disposal Service, Inc. (affiliated with PDC)
- ◆ Cook's Sanitary
- ◆ Hayden Sanitary
- ◆ Illini Recycling
- ◆ Shaffer's Sanitary Company

Residential Waste

The City does not publish a price list, but the Champaign City administration estimated the residential trash rates were in a range from \$14 to \$40 per household month.¹⁰

Recycling Services

The private haulers are required by City ordinance to offer weekly curbside recycling collection. Residents can purchase their own recycling carts or rent one from their hauler. For recycling at multi-family households (more than 4 units per building), the City of Champaign contracted with a single hauler, Allied Waste. Allied provides 96-gallon recycling carts in the shared waste collection areas of apartment buildings. Each apartment unit is assessed a \$2.60 per month recycling fee.¹¹

Yard Waste

The City of Champaign offers a spring yard waste curbside pickup that begins in early spring and runs on an alternating schedule for four weeks in various zones. Champaign also provides leaf collection in the spring and fall at no added cost to residents. Champaign residents and businesses may also drop yard waste of all types, at the Landscape Recycling Center operated by a non-profit organization serving Champaign County. Drop-off fees range from \$9 to \$11 per cubic yard, depending on the type of yard waste material.¹²

Bulky Items/Other Services

Bulky item services and costs are managed by each the individual licensed hauler.

City of Decatur

Solid waste management services in Decatur have historically been divided into territories served by private residential waste haulers. Residential garbage collection service in the City of Decatur is provided by licensed haulers that provide the collection and disposal of garbage, recycling and yard waste within the City.¹³ The Bloomington study reported there were nine (9) trash companies serving houses and small apartment complexes. Decatur policy is intended to promote competition, but the City also enacted reforms to ensure stricter service quality standards, promote conservation, and encourage recycling. Advanced Disposal served about three-quarters of the City's 27,000 stops.¹⁴

Residential Waste

Garbage collection is regulated by City ordinance and is collected once a week.^{15, 16} The City sets the residential waste rates for the private haulers. Residents can choose one of three options:

- ◆ “*Minimum Removal Service*” is for persons with little trash accumulation. No yard waste collection included. Trash bags must be placed in approved containers. *Minimum Removal Service* costs residents \$2.42 per bag with a minimum purchase of twelve bags each calendar year.
- ◆ “*Basic Service*” includes collection of up to three 32-gallon trash cans or one 96-gallon trash cart. *Basic Service* currently costs residents \$14.50 per household month.
- ◆ “*Expanded Basic Service*” includes collection of up to six 32-gallon trash cans or two 96-gallon trash carts. *Expanded Basic Service* costs residents \$17.50 per household month.

Recycling Services

The costs of weekly recycling collection services are included in the trash rates as part of the overall residential waste services. At the *Basic Service* level or the *Expanded Basic Service* level, residents can receive one 65-gallon recycling cart or continue to use two of the traditional 18-gallon curbside recycling bins.¹⁷ In 2011, the City purchased and distributed recycling carts without charge to residents as part of a major recycling effort. The addition of recycling carts resulted in an increase in recycling participation from 14 percent to 56 percent of households.¹⁸

The Bloomington study reports that Decatur allowed apartments with 6 units or less to utilize the recycling program. Larger apartment complexes must make their own recycling arrangements.¹⁹

Yard Waste

The costs of weekly yard waste collection services are included in the trash rates as part of the overall residential waste services. The *Basic* and *Expanded Basic* levels of yard waste service includes unlimited bags or approved containers of yard waste pickup for six weeks in the spring and six weeks in the fall.²⁰ Yard waste services includes hauling of all yard waste, including grass clippings.²¹

Residents may pay \$1 per month per household to subscribe to the City’s “*Premium*” yard waste collection service which is unlimited collection, year round.²²

Bulky Items/Other Services

Residential waste services include removal each year of one household appliance (such as a stove, refrigerator and dishwasher) and five other items that are too large to fit in a trash cart. This level of bulky item collection services is included in the residential waste rate at no additional charge.

The Bloomington study stated that residents had to pay \$25 if an appliance contains Freon (e.g., refrigerator, air conditioner, etc.). Residents pay haulers for additional large item pickups above the first “free” five items.

City of East Moline

The City of East Moline has an organized solid waste hauling system. The City recently executed a new contract with Republic Services for trash, recycling and yard waste collection services. Prior to 2017, the City utilized in-house City staff and equipment to operate these solid waste management services.^{23, 24}

Residential Waste

The current, 2017 solid waste utility rate for East Moline remains at \$7.35 per household per month²⁵ regardless of whether the resident selects a 65-gallon or 95-gallon trash cart. This includes only residential waste collection.²⁶

Recycling Services

Recycling collection is ordered on a subscription basis and is an extra charge to residents. If ordered, every other week curbside recycling service costs an additional \$3.40 per household per month and includes a 65-gallon recycling cart. This curbside service is new with the Republic Services contract and currently about 24 percent of the residential waste customers have ordered recycling collection.^{27, 28}

Yard Waste

Yard waste collection service is purchased via stickers at a cost of \$1.50 per sticker for bags of leaves and/or grass. Brush ties may be purchased at the cost of \$1.75 per bush tie.²⁹

Bulky Items/Other Services

Bulky collection service is provided up to four (4) times per calendar year for a prepaid fee of \$15 per collection. Residents purchase the \$15 Bulky Collection Stickers and are provided with the collection of bulky items equivalent to one (1) large dump truck load.³⁰

Village of Morton

The Village of Morton solid waste management services are operated by Area Disposal (formerly Grimm Brothers Trucking, Inc.). Area Disposal is affiliated with PDC. While the Village and the Area Disposal agree upon trash rates, Area Disposal provides nearly all refuse services including billing. Morton’s solid waste management service includes homes, duplexes and small apartment buildings. Landlords of quad-plexes and larger buildings may opt-out of the program. Larger apartment structures and complexes are excluded.^{31, 32}

Residential Waste

Area Disposal offers weekly pick up of 65-gallon trash carts for a fee of \$16.38 per household per month (or \$49.14 as billed quarterly). This rate includes recycling collection service, one trash cart, and one 65-gallon recycling cart. If residents have more trash than one cart can hold, they can request an additional trash cart for \$7.50 per month.

Recycling Services

Recyclables are collected every-other-week in 65-gallon carts provided by Area Disposal. The cost of recyclables collection and one recycling cart are included in the base trash rate. If one recycling cart is not large enough, residents may order a second recycling cart from Area Disposal for \$2.50 per month.³³

Yard Waste

Area Disposal offers optional weekly collection of yard waste during the season of April 1 through November 30.³⁴ Yard waste carts may include all types of landscape waste including grass clippings.

Area Disposal offers 65-gallon and 95-gallon yard waste carts for an additional subscription fee of \$20 per month per 65-gallon yard waste cart or \$30 per month per 95-gallon yard waste cart. Alternatively, residents can purchase stickers at local retailers for \$2.50 per sticker for pick-up of a long, 35-gallon leaf bag.³⁵

The Village of Morton also operates their own yard waste drop-off site where residents can drop off yard waste. The yard waste drop-off site is open for approximately two weeks in the spring and four weeks in the fall for resident drop-off. The Village has recently tightened up the inspections of loads coming into the yard waste drop-off site to reduce contamination and ensure quality yard waste loads.³⁶

Bulky Items/Other Services

For large bulky items, Area Disposal picks up large household items. Residents call ahead to Area Disposal to order this special collection of bulky items and pay \$15 for item such as a couch.³⁷

Town of Normal

The Town of Normal operates the solid waste system for the collection of trash, recyclables, yard waste and bulky items. Single-family homes and duplexes are served by the municipally-operated trash collection system.³⁸ Owners of all other structures including multi-unit buildings with three or more units must contract for their own services.

Residential Waste

The current solid waste utility rate for Normal is \$18 per month (charged bi-monthly at the rate of \$36 for two months of service).³⁹ Trash carts initially were distributed without a direct purchase fee to the residents. New or replacement trash carts, while not required, may be purchased for \$60 for either a 65-gallon or 95-gallon cart.⁴⁰

Recycling Services

In July 2012, the Town of Normal launched their curbside recycling program using recycling carts which resulted in an initial participation rate of 48 percent. Prior to the curbside recycling service, residents were encouraged to use a series of recycling drop-off sites.⁴¹

Weekly recycling collection service is included in the base solid waste utility rate. But residents must purchase their own Town-issued cart because these carts are more durable and compatible with the collection truck's automatic lifting arm. The price for a new recycling cart is the same as for a trash cart, \$60, but recycling carts may be purchased on an installment plan.

Yard Waste

Normal collects yard waste (excluding such items as grass clippings, sticks, sod, and dirt) at the curb weekly during the yard waste growing season. This year, the service began on March 27, 2017 and is scheduled to run through approximately December 22, 2017. There is no extra charge for this yard waste collection service.⁴²

Brush is included in this program at no additional charge, but must be separated from other yard waste as it is collected by a different type of truck.⁴³

All landscape waste, including grass and sod, is also accepted for drop off at the Normal Public Works (PW) site where mulch is available without charge. The same drop-off site also takes electronics and thermostats.

Bulky Items/Other Services

Bulky waste collection service is included in the base solid waste collection rate and is defined as large items that cannot fit into a garbage cart. Bulky waste is collected each week on the regular garbage collection day.⁴⁴

City of Pekin

The City of Pekin provides collection of weekly trash, recycling and yard waste with municipal crews. The City serves about 11,800 dwelling units. Single-family homes and apartment complexes with up to 4 units or less are included in the municipal program. Larger buildings and other commercial establishments must subscribe for services with a private hauler.

In May 2017, the garbage fee will be increased to \$16 per household per month from the current rate of \$12 per household per month. In January 2017, the Pekin City Council adopted a new garbage fee schedule for the next five years to phase in the required increases to allow the solid waste budget to break even by the fourth year. The fee in the fifth year will be \$23 per month.⁴⁵

In November 2016, the City of Pekin released a request for proposals for solid waste collection services.⁴⁶ In December 2016, the City received proposals from two private respondents: Waste Management and PDC. The proposed price of the lowest responsive proposal was about \$521,000 higher than the current cost of in-house operations using municipal crews and equipment. In January 2017, the City ultimately decided to keep the operations in-house and rejected both private proposals.⁴⁷

Residential Waste

Trash carts can be purchased from the City for \$60 for a 95-gallon cart and \$50 for a 64-gallon cart. Alternatively, garbage containers may be purchased at local stores if they meet City of Pekin specifications.^{48, 49}

Recycling Services

The City's recycling service is weekly and the costs of recyclables collection operations are included in the City's monthly garbage fee. Residents can now also purchase recycling carts for \$40. Glass is not included in the curbside recycling program but can be dropped off at the local Recycling Center.

Yard Waste

Weekly yard waste collection service is provided from April 3rd through January 16th. Residents can use compostable yard waste bags or garbage containers. Brush including limbs can be bundled with a bundle weight limit of 50 pounds.⁵⁰

Bulky Items/Other Services

The City picks up large, bulky household items from the curbside at no additional charge to the residents.⁵¹

Summary Comparison of Selected Illinois Communities

Table 1 on the next page displays the preliminary comparison of solid waste and recycling rates charged to residents within the seven (7) selected communities located in central Illinois, plus Peoria. After Peoria, the other communities are listed in alphabetical order and the following information is provided on the table.

Total Number of Households

The total number of households from U.S. Census bureau data are listed to provide an approximate community size comparison. These are all households in each community and are not necessarily the house count of stops as served by the various solid waste collection operations. For example, larger apartment buildings (e.g., above 4 units per building) are not typically served by municipal residential solid waste collection programs yet are included in the listed total number of households.

Contract Structure (Haulers)

Contract Structure (Haulers) lists how each community provides residential solid waste collection services, either by contract, municipal crews, or in an "open hauling" system. Open hauling refers to a structure whereby the community generally regulates the standards of collection services, but each resident or building owner selects the licensed hauler of their choice.

Trash Rate

The Trash Rate provides the base charge to residents per household per month for those communities with fixed rates that do not vary by trash cart size.

Trash Cart Size

The rates listed under Trash Cart Size are for communities with variable trash rates. Trash rates that vary by trash cart size are also referred as "Pay as You Throw" price schedules, and residents pay based on the size cart they choose.

Services Included In Trash Rates

Services Included in Trash Rates begins to provide limited comparative data about resident charges. Such comparisons are complicated by the fact that each community is unique. Utility charges and other financing mechanisms are fiscal policies determined by each individual community. A more complex analysis attempting to adjust for all of these variables is beyond the scope of this case study review.

Table 1
Comparison of Solid Waste Rates in Selected Communities in Central Illinois

Community	TOTAL Households	Contract Structure (Haulers)	Trash Rates (\$ per month per household, unless otherwise specified)	Additional Services Included In Trash Rates (\$ per month per household, unless otherwise specified)		
				Recycling (collection frequency)	Yard Waste (YW) (aka "Landscape Waste")	Bulky Items
Peoria	46,800	Private contractor (PDC)	\$14 for a 35-gallon, 65-gallon, or 95-gallon cart	Yes (monthly) (\$50 deposit for carts)	Yes	Yes (unlimited)
Bloomington	30,000	Municipal crews	\$16 for a 35-gallon cart; \$21 for a 65-gallon cart; \$25 for a 95-gallon cart	Yes (every other week)	Yes via Bulk Pickup (But not grass)	Yes (up to one bucket per collection)
Champaign	30,700	Open hauling (8 private haulers currently licensed)	\$14 to \$40 (cart size varies by hauler)	Yes (weekly)	No	Varies by hauler
Decatur	31,700	Open hauling with zones (9 haulers)	\$2.42 per bag for "Minimum Service" \$14.50 for "Basic Service" \$17.50 for "Expanded Basic Service"	Yes (weekly)	Yes for <i>Basic+</i> levels (\$1 for <i>Premium</i> , year-round YW service)	Yes (up to 1 appliance and 5 other items per year)
East Moline	8,500	Private contractor (Republic Services)	\$7.35 for a 65-gallon or 95-gallon cart	No (every other week) (\$3.40 subscription rate)	No (YW sticker \$1.50 per bag, Brush \$1.75 per tie)	No (\$15 per collection)
Morton	6,500	Private contractor (Area Disposal)	\$16.38 for one 65-gallon cart	Yes, for one 65-gallon cart (every other week)	No (\$2.50 per sticker; \$20 per 65-gallon cart; or \$30 per 95-gallon cart)	No (\$15 per large item)
Normal	18,000	Municipal	\$18 for a 65-gallon or 95-gallon cart	Yes (weekly)	Yes	Yes
Pekin	14,000	Municipal	\$16	Yes (weekly)	Yes	Yes

End Notes

- ¹ The Recycling Partnership (January 2017), “*The 2016 State of Curbside Report*”, <http://recyclingpartnership.org/>
<https://therecyclingpartnership.box.com/s/i0wvano7hi3dr3ivqxv689y4zzo58312>
- ² City of Bloomington, IL “*Solid Waste Analysis: Final Draft Report*” study (July 22, 2013):
<http://www.cityblm.org/home/showdocument?id=5469>
- ³ For more details, see Foth’s memorandum, *Summary of Current Solid Waste Management Services Agreement with PDC Services, Inc.*, dated February 20, 2017.
- ⁴ Ibid, Foth February 2017 memorandum.
- ⁵ PDC’s *Waste Collection Guide*:
<http://www.peoriagov.org/content/uploads/2012/11/City-of-Peoria-Waste-Collection-Guide-12.pdf> and
Curbside Recycling Program flyer:
<http://www.pdcarea.com/wp-content/uploads/2015/11/Curbside-Recycling-Program.pdf>
- ⁶ Op. cit., Bloomington study.
- ⁷ City of Bloomington “*Bulk & Brush Collection*” web page:
<http://www.cityblm.org/government/departments/public-works/garbage-bulk-waste-recycle/bulk-brush-collection>
- ⁸ City of Bloomington, “*2017 Recycling Collection Map*” and schedule:
<http://www.cityblm.org/home/showdocument?id=7700>
- ⁹ Op. cit., Bloomington “*Bulk & Brush Collection*” web page.
- ¹⁰ Op. cit., Bloomington study.
- ¹¹ Op. cit., Bloomington study.
- ¹² Op. cit., Bloomington study.
- ¹³ Herald-Review article (January 26, 2017): City of Decatur “*Waste Management*” services:
http://herald-review.com/waste-management/article_1a0e0631-2933-5462-9f8f-75bc059aca18.html
- ¹⁴ Op. cit., Bloomington study.
- ¹⁵ Herald-Review article (April 17, 2011), “*Residents, Haulers and City Continue to Adjust to New Garbage Collection Program*”:
http://herald-review.com/news/local/residents-haulers-and-city-continue-to-adjust-to-new-garbage/article_f23eda5a-4893-50fa-a9df-e88499c8c923.amp.html
- ¹⁶ City of Decatur “*Topic: Garbage*” web page:
<http://www.decaturlil.gov/topic/garbage/>
and the City’s “*How Frequently is Garbage Collected?*” web page:
<http://www.decaturlil.gov/question/how-frequently-is-garbage-collected/>
- ¹⁷ Op. cit., Herald-Review January 2017 article.
- ¹⁸ Op. cit., Herald-Review January 2017 article.
- ¹⁹ Op. cit., Bloomington study.

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- ²⁰ Op. cit., Herald-Review January 2017 article.
- ²¹ Op. cit., Herald-Review January 2017 article.
- ²² Op. cit., Herald-Review January 2017 article.
- ²³ City of East Moline event announcement, “*Republic Delivers New Garbage Bins*” web link (released January 25, 2017): <http://www.eastmoline.com/Calendar.aspx?EID=411>
- ²⁴ Dispatch-Argus newspaper (QConline.com) follow-up article, “*New Garbage Cans Headed East Moline’s Way*”, by Leon Lagerstam (February 10, 2017):
http://www.qconline.com/news/local/new-garbage-cans-headed-east-moline-s-way/article_e16b35a6-8b5d-59e5-9e3d-692c3d974bd1.html
- ²⁵ East Moline “*EM Utility Rates*” web-based flyer, under the column “Garbage Fees” (Monthly billing cycles – Rates effective January 2017):
<http://www.eastmoline.com/documentcenter/view/4531>
- ²⁶ Personal phone communication with East Moline Finance Office (March 30, 2017):
Phone: 309-752-1585.
- ²⁷ Op. cit. Dispatch-Argus article.
- ²⁸ Op. cit, East Moline staff.
- ²⁹ City of East Moline, “*Yard Waste*” web page:
<http://www.eastmoline.com/178/Yard-Waste>
- ³⁰ City of East Moline, “*Yard Waste*” web page:
<http://www.eastmoline.com/156/Bulky-Item-Collection>
- ³¹ Village of Morton, “*Garbage Recycling Collection*” web page:
<http://morton-il.info/garbage-recycling-collection>
- ³² Op. cit., Bloomington study.
- ³³ Personal phone communications with Area Disposal staff on Thursday, April 6 and Friday, April 7, 2017.
- ³⁴ Area Disposal / Grimm Bros. “*2017 Morton Recycling & Holiday Schedule*” flyer:
<http://www.pdcarea.com/wp-content/uploads/2015/06/Morton-A-2017-BW.pdf>
- ³⁵ Op. cit., personal communications with Area Disposal staff.
- ³⁶ Peoria Journal Star article, “*Morton Cracks Down on Yard Waste Scofflaws*” (October 3, 2016):
<http://www.pjstar.com/news/20161003/morton-cracks-down-on-yard-waste-scofflaws>
- ³⁷ Op. cit., personal communications with Area Disposal.
- ³⁸ Town of Normal, “*Garbage, Recycling, and Landscape Waste Cart Orders*”:
www.normal.org/803/cart-orders
- ³⁹ Town of Normal, “*Utility Rates*” web page:
<http://il-normal.civicplus.com/501/Utility-Rates>
- ⁴⁰ Op. Cit., Normal “*... Cart Orders*” web page.
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⁴¹ Op. cit., Bloomington study.

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<http://www.normal.org/799/Landscape-Waste>

⁴³ Town of Normal, “*Brush Collection*” web page:
<http://il-normal.civicplus.com/211/Brush>

⁴⁴ Town of Normal, “*Bulky Waste*” web page:
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⁴⁵ Pekin Daily Times article by Sharon Woods Harris: “*City Eyes Future Garbage Prospects*” (February 2, 2017): <http://www.pekintimes.com/news/20170202/city-eyes-future-garbage-prospects>

⁴⁶ City of Pekin, Public Works Department, “*Request for Proposals: City of Pekin Solid Waste Collection*” (November 2016).

⁴⁷ Journal Star and Pekin Times news article by Sharon Woods Harris, “*Pekin City Manager: Stay with City Garbage Service*”, (January 9, 2017):
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<http://www.pjstar.com/news/20170109/pekin-city-manager-stay-with-city-garbage-service/1>

⁴⁸ City of Pekin “*Garbage*” web page:
http://www.ci.pekin.il.us/departments/public_works/garbage.php

⁴⁹ City of Pekin flyer: “*Pekin Illinois Garbage, Yardwaste and Recycling Programs*”:
http://www.ci.pekin.il.us/document_center/depts/public_works/solidwasteflyer_3.pdf

⁵⁰ City of Pekin, “*Yard Waste*” web page:
http://www.ci.pekin.il.us/departments/public_works/yard_waste.php

⁵¹ City of Pekin, “*Solid Waste*” web page [link no longer active]