



KANE COUNTY

WOJNICKI, Weber, Allan, Barreiro, Hernandez, Kious, Sanchez

ENERGY AND ENVIRONMENTAL COMMITTEE

FRIDAY, OCTOBER 11, 2019


County Board Room

Agenda

9:00 AM

Kane County Government Center, 719 S. Batavia Ave., Bldg. A, Geneva, IL 60134

1. Call to Order
2. Approval of Minutes: September 17, 2019
3. Environmental (J. Wollnik)
4. Recycling/Solid Waste (J. Jarland)
 - A. Presentation: Recycling Events & Update (attached)
 - B. **Resolution:** Approving a Contract With Aptim Environmental For Consulting Services For The Kane County Solid Waste Management Plan 2020 Update
5. Sustainability (J. Mino)
 - A. Discussion: Climate Plan
 - B. Presentation: Oaktober (attached)
 - C. Presentation: Partner Excellence Award (attached)
6. New Business
7. Public Comment
8. Reports Placed on File
9. Executive Session (If Needed)
10. Adjournment



Kane County Recycling General Updates, Events, and Resolution

Energy & Environmental Committee
October 11th, 2019

CONTENTS:

- Recycling Event Updates
- Contracting for consultant to assist with the Solid Waste Plan 2020 Update
- Resolution

Remaining 2019 Recycling Events

- **Oct 12** - electronics & books only
 - Location: Illinois Mathematics and Science Academy, 1500 Sullivan Road, Aurora, IL 60506
- **Nov 2** - Pumpkin & squash composting event
- **Nov 9** - electronics & books only
 - Location: Anderson Park, 5N180 Brown Road, Campton Hills, IL 60175



ELECTRONICS & BOOKS RECYCLING EVENT

Collection is open to all residents.

Illinois Mathematics & Science Academy

1500 Sullivan Road

Aurora, IL 60506

Saturday, October 12, 2019

8:00 am to 12:00 pm

Fee applies for all televisions and monitors.

CRT, Flat Screens, Projection TVs And Monitors

Under 21 inch screen = \$25.00 per unit

21 inch screen and over = \$35.00 per unit

Cash or Credit Card accepted – Please No Checks

PROCEEDS TO BENEFIT THE DEVELOPMENTALLY DISABLED



ELECTRONICS

ITEMS ACCEPTED

Computers & Peripherals

PCs
Laptops (no fee)
Servers
Tablets
Main Frames
Modems
Docking Station
Printers
Monitors
CD-ROM Drives
Floppy Disk Drives
Mouse
Keyboards
Scanners
Cables & Wire

Office Equipment & Products

Telephones
Fax Machines
Copy Machines
Cellular Phones

Home Entertainment & Other Items

TVs
Cable Boxes
Satellite Receivers
VCRs
DVD Players
Stereo Equipment
Joy Sticks
Video Game Players
Holiday String Lights
Power Supplies

ELECTRONICS

ITEMS NOT ACCEPTED

Batteries
Smoke Detectors
Wooden Speakers
Appliances
White Goods
Hazardous/Chemical waste

All electronic items should be unboxed and free of excess packaging materials.

BOOKS

Books can be of any age, in any condition, either paperback or hardcover. They are assessed for reuse and redistributed if possible. Otherwise they are sent for recycling.

Shredded paper in paper bags (with top rolled and stapled once or twice) can be dropped off at the Book Recycling area. We will put them in with the books that are beyond use and headed for recycling. The paper will get recycled.

Questions? email recycle@countyofkane.org or call 630-208-3841

Co-Sponsored By



WHEN: Saturday, October 12th, 2019; 8am-12noon

WHERE: 1500 Sullivan Rd, Aurora, IL 60506

We will be accepting: electronics & books See [event poster](#) for more details.

TVs and Monitors have a fee (\$25 for screens under 21", \$35 for screens 21" and over)





Pumpkin Composting Drop-off

**Saturday, November 2nd
9am-12pm**

**Pushing The Envelope Farm
1700 Averill Road, Geneva, IL 60134**

Don't Let Your Waste Haunt You!

Why compost pumpkins?

- They are 90% water and are full of nutrients that are good for the soil
- Support a local farm by providing these nutrients for their gardens
- Most of the pumpkins processed in the US are grown in Illinois – keep the water and nutrients here!
- Food scraps and organic materials in landfills are the 3rd largest producers of methane, a potent greenhouse gas contributing to climate change



Pumpkins only

NO candles • NO yarn hair • NO stickers • NO googly eyes • NO plastic ears
In other words, only the pumpkins themselves can be composted!

Questions: Call Kane County Recycling Coordinator at 630-208-3841
or see www.countyofkane.org/recycling for more information.

www.scarce.org

630-545-9710

info@scarce.org

Solid Waste Plan 2020 Update RFO

Seeking statements of qualification from firms/consultants qualified to provide professional services to assist in preparing the 2020 update to the Kane County Solid Waste and Resource Management Plan.

The selected firm will bring expertise in resource management planning to the 2020 Plan Update process will contribute to the development of the 2020 Plan Update in the following ways:

- by analyzing the effectiveness of current and proposed programs,
- by offering counsel on national and regional best practices,
- by providing sound data in support of recommendations, and
- by contributing to the graphic design, organization, and final presentation of the 2020 Plan Update.

Solid Waste Plan 2020 Update

- **9/3** issued RFP 34-019 **2020 KANE COUNTY SOLID WASTE MANAGEMENT AND RESOURCE RECOVERY PLAN CONSULTANT**
- **9/13** questions due
- **9/16** addendum answering questions
- **9/24** submittal deadline
- **10/11** Energy & Environmental Committee
- **11/6** Executive Committee
- **11/12** KC Board approval & contract finalization
- **12/4** project start

Solid Waste Plan 2020 Update Grading Matrix

Weighted Criteria	Scoring
Knowledge of state waste and recycling industry, including data bases on same	35%
Expertise in solid waste and resource management practices and programs	35%
Proficiency in solid waste plan development	30%
Total	100%

Solid Waste Plan 2020 Update

Grading Matrix

Knowledge of state waste and recycling industry, including data bases on same	35%	New Gen	RRS	Deigan	Delta	Aptim
		8%	8%	8%	15%	35%
Expertise in solid waste and resource management practices and programs	35%	New Gen	RRS	Deigan	Delta	Aptim
		20%	15%	18%	20%	35%
Proficiency in solid waste plan development	30%	New Gen	RRS	Deigan	Delta	Aptim
		8%	10%	13%	18%	28%
		New Gen	RRS	Deigan	Delta	Aptim
Grand Totals		35%	33%	38%	53%	98%

Solid Waste Plan 2020 Update

RESOLUTION NO. 19 -

APPROVING CONTRACT WITH APTIM ENVIRONMENTAL FOR CONSULTING SERVICES FOR THE KANE COUNTY SOLID WASTE MANAGEMENT PLAN 2020 UPDATE

WHEREAS, the Illinois Solid Waste Planning and Recycling Act, ("the Act") (415ILCS 15/1 et.seq.) places specific requirements upon counties to prepare, adopt, and implement plans for the management of waste and recycling generated within their borders; and

WHEREAS, the act requires that each plan be reviewed and updated every five years and submitted to the Illinois Environmental Protection Agency ("IEPA"); and

WHEREAS, the original Kane County Solid Waste Management Plan ("the Plan") was adopted by the Kane County Board on November 10, 1992 by Resolution #92-280, and updated on March 10, 1998 by Resolution #98-52, on May 11, 2004 by Resolution #04-203, on November 10, 2009 by Resolution #09-417, and on July 14, 2015 by Resolution # 15-185; and

WHEREAS, the Division of Environmental and Water resources review team received five (5) responses to their request for Qualifications, assessed them according to specific qualifications, and recommended Aptim Environmental as the most highly qualified; and

WHEREAS, the agreement covers a set scope of services to be rendered over an estimated 9-month timeline for a not-to-exceed amount of \$34,000, which will come from funds in the FY2019 and FY2020 budget years, that have been set aside for this purpose.

NOW, THEREFORE, BE IT RESOLVED that the Chairman is authorized to contract with Aptim Environmental and Infrastructure, LLC for provision of professional services to assist in preparing the 2020 update to the Kane County Solid Waste Management Plan, for an amount not-to-exceed \$34,000.

Passed by the Kane County Board on November 12, 2019.

Questions?

Jennifer Jarland
Recycling Program Coordinator
630-208-3841
recycle@countyofkane.org



RESOLUTION/ORDINANCE EXECUTIVE SUMMARY

Resolution No.

Approving a Contract With Aptim Environmental For Consulting Services
For The Kane County Solid Waste Management Plan 2020 Update

Committee Flow: Energy and Environmental Committee, Finance and Budget
Committee, Executive Committee, County Board

Contact: Jennifer Jarland, 630.208.3841

Budget Information:

Was this item budgeted? yes	Appropriation Amount: \$34,000
If not budgeted, explain funding source: Note - \$18,000 from FY19 budget & \$16,000 from FY20 budget	

Summary:

This resolution seeks to approve the Chairman to sign a contract with Aptim Environmental, a solid waste planning consultancy firm, for assistance in preparing the state-mandated 2020 Solid Waste Plan Update.

STATE OF ILLINOIS

COUNTY OF KANE

RESOLUTION NO.

APPROVING A CONTRACT WITH APTIM ENVIRONMENTAL FOR CONSULTING SERVICES FOR THE KANE COUNTY SOLID WASTE MANAGEMENT PLAN 2020 UPDATE

WHEREAS, the Illinois County Solid Waste Planning and Recycling Act, ("the Act") (415ILCS 15/1 et. seq.) places specific requirements upon counties to prepare, adopt, and implement plans for the management of waste and recycling generated within their borders; and

WHEREAS, the original Kane County Solid Waste Management Plan ("Plan") was adopted by Kane County Board on November 10, 1992 by Resolution #92-280, and updated on March 10, 1998 by Resolution #98-52, on May 11, 2004 by Resolution #04-203, on November 10, 2009 by Resolution #09-417, and most recently on July 14, 2015 by Resolution #15-185 ; and

WHEREAS, the Act requires that each Plan be reviewed and updated every five (5) years and submitted to the Illinois Environmental Protection Agency; and

WHEREAS, the Division of Environmental and Water Resources review team received five (5) responses to their request for qualifications, assessed them according to specific criteria and recommended Aptim Environmental as the most highly qualified; and

WHEREAS, the agreement covers a set scope of services to be rendered over an estimated nine-month timeline for a not-to-exceed amount of Thirty-four Thousand Dollars (\$34,000), which will come from funds in the FY19 and FY20 budget years, that have been set aside for this purpose.

NOW, THEREFORE, BE IT RESOLVED that the Chairman is authorized to contract with Aptim Environmental and Infrastructure, LLC for provision of professional services to assist in preparing the 2020 update to the Kane County Solid Waste Management Plan, for an amount not-to-exceed Thirty-four Thousand Dollars (\$34,000).

Line Item	Line Item Description	Was Personnel/Item/Service approved in original budget or a subsequent budget revision?	Are funds currently available for this Personnel/Item/Service in the specific line item?	If funds are not currently available in the specified line item, where are the funds available?
650-670-670-50150	Consulting Services	Yes	Yes	N/A

Passed by the Kane County Board on November 12, 2019.

John A. Cunningham
Clerk, County Board
Kane County, Illinois

Christopher J. Lauzen
Chairman, County Board
Kane County, Illinois

Vote:

19-11 SWP Consultant

Kane County

Solid Waste Management and Resource Recovery Plan Consultant RFQ 34-019

Submitted to:

County of Kane
Purchasing Department
Building A, Rooms 211, 212, or 214
719 South Batavia Avenue
Geneva, Illinois 60134



Submitted by:



Aptim Environmental & Infrastructure, LLC
1607 East Main Street, Suite E
St. Charles, Illinois 60174

September 24, 2019

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SECTION I. COVER LETTER

September 23, 2019

County of Kane
Purchasing Department
Building A, Rooms 211, 212, or 214
719 South Batavia Avenue
Geneva, Illinois 60134

Subject: Statement of Qualifications
RFQ 34-019 - Kane County Solid Waste Management and Resource Recovery Plan Consultant

Dear Kane County Purchasing Department and Members of the Review Team:

Aptim Environmental & Infrastructure, LLC (APTIM) is pleased to submit this statement of qualifications to Kane County (the County). We have assembled a uniquely qualified team of professionals to assist the County to update its Solid Waste Management and Resource Recovery Plan. APTIM provides the following advantages to the County in its update to its Solid Waste Management and Resource Recovery Plan:

- **APTIM has worked with more than 38 units of local government in Illinois to develop and implement solid waste management plans and plan updates.** In recent years we have assisted DuPage County, Grundy County, Lake County, LaSalle County, the Solid Waste Agency of Northern Cook County, and the West Cook County Solid Waste Agency to prepare their Plan Updates – these jurisdictions together represent more than 3 million people.
- **APTIM has assisted more than 60 jurisdictions across the U.S. to develop solid waste needs assessments and solid waste management plans.** In addition to our local experience, APTIM also brings an understanding of solid waste management strategies, programs, and facilities that are being evaluated and developed throughout the nation.

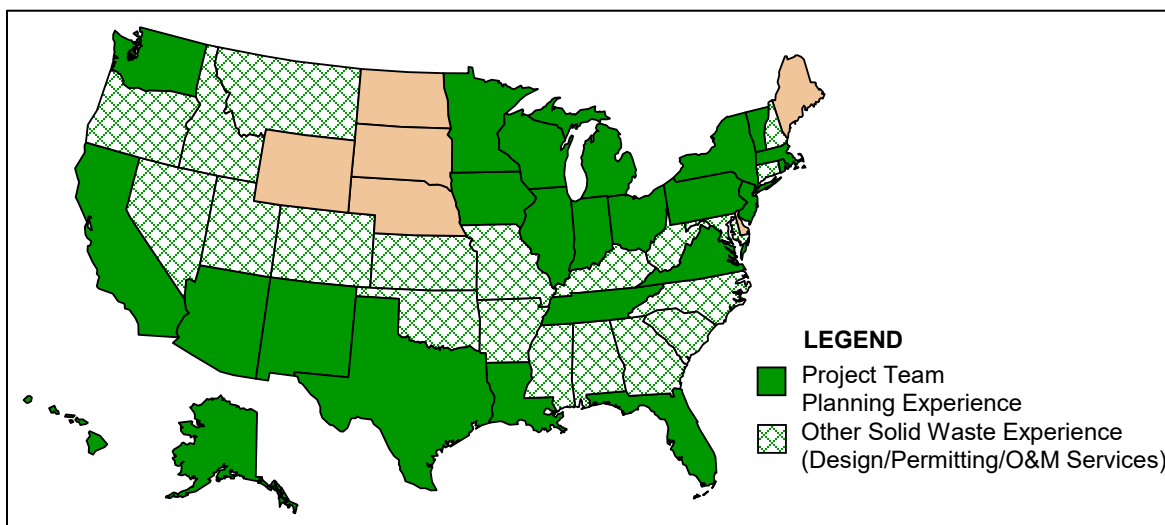


FIGURE 1. APTIM'S NATIONWIDE SOLID WASTE EXPERIENCE

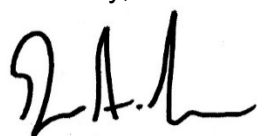
- **APTIM is assisting communities to plan and implement programs to meet sustainability goals.** APTIM is working with a number of progressive communities across the U.S., including Austin

(Texas), Boulder (Colorado), Ann Arbor (Michigan) and Los Angeles (California) to assess and implement waste diversion plans.

- **We have assembled a diverse and talented team of professionals to assist the County, including planners, economists, and solid waste engineers.** Our key project team members have over 80 years of combined solid waste planning experience in Illinois and across the U.S. Together, our team has developed more solid waste management plans and updates in Illinois than any other consultant. Our expertise ensures the County will receive superior input and analysis to support development of its update.
- **APTIM's team members are key participants in infrastructure development and procurement within the local and regional market.** Our project team has been instrumental in assisting units of government and private companies to build out much of the infrastructure currently used to manage waste in northern Illinois, including recycling facilities, compost facilities, construction and demolition debris facilities, transfer stations and landfills. We have also assisted public and private sector clients on procurement of solid waste services, including collection, recycling, composting, transfer and disposal, and have a thorough knowledge of local and regional solid waste management costs.
- **Our planning experience is backed by demonstrated implementation experience.** We have a unique understanding of the planning, regulatory, market, and facility development trends occurring in Kane County, the Chicago metro-area, and the State of Illinois. This knowledge will prove valuable to the County in evaluating current and future programs and strategies, and ascertaining which service needs are being met by the private sector and which can best be addressed by the County.
- **We have compiled an extensive database with more than 23 years of historical data on solid waste quantities in Illinois and surrounding states to calculate waste generation and disposal rates.** This database allows for historical trend analysis and will enhance the data available from the County and other solid waste management plans in the region. With these resources, APTIM can provide the County immediate insight into waste quantities and trends, essential to its assessment of future programs and strategies.
- **Our team has substantial experience working with public officials and stakeholders to develop consensus during the planning process.** All of our team members have experience making public presentations, and communicating the planning, technical and economic aspects of solid waste management alternatives to elected officials and other stakeholders.

APTIM acknowledges receipt of the County's RFP and two addenda, dated September 5, 2019 and September 16, 2019. This statement of qualifications is submitted based on the negotiation of a final, mutually agreeable agreement for consulting services; a copy of APTIM's standard professional services agreement is included in Appendix D of this submittal for the County's consideration. Upon award, required contractor disclosures will also be provided. We look forward to the opportunity to work with Kane County and its Recycling Coordinator on this important project. Please do not hesitate to contact me or our designated project manager, Christina Seibert, at (630) 762-1400 if you have any questions on our submittal.

Sincerely,



Devin A. Moose, P.E., DEE
National Program Director - Solid Waste Consulting and Engineering

SECTION II. PROJECT UNDERSTANDING

APTIM understands that Kane County seeks consultant support to assist in the development of its 2020 update to the Solid Waste Management and Resource Recovery Plan (“2020 Plan Update”). The County has historically developed updates to its original 1992 Solid Waste Management Plan approximately every five years in accordance with the requirements of the Illinois Solid Waste Planning and Recycling Act. The majority of the prior updates have been completed by County staff.

It is our understanding that the County is seeking consultant support for the 2020 Plan Update primarily to provide resource management planning expertise and advisory guidance, drawing upon the consultant’s local, regional, and national knowledge and experience. While the County envisions taking a primary authorship role for the 2020 Plan Update, consultant support is sought to address the following key items:

1. Assessing existing and needed collection, diversion, and disposal infrastructure (including transfer stations, recycling facilities, and compost facilities) as well as management options for waste streams such as household hazardous wastes, C&D wastes, and industrial and agricultural wastes (to the degree these waste streams are integrated with the general municipal waste stream);
2. Reviewing and providing feedback on the recommendations contained in the 2015 Plan Update and guidance for the development of recommendations for the 2020 Plan Update;
3. Providing recommendations to the County to update the data, analysis, and goals associated with sections of the Plan Update including waste quantities and management practices; economics and funding; and planning period recommendations;
4. Providing data and analysis to be used by the County (including the Recycling Coordinator and Energy and Environmental Committee of the County Board) to support formulation of recommendations;
5. Developing specifications for required or requested host community benefits to be addressed in a Host Community Benefit Agreement for proposed pollution control facilities; and
6. Completing the document layout, graphic design, and final proofreading of the 2020 Plan Update.

In APTIM’s experience, this is a comprehensive and thoughtful approach to a collaborative plan update process. APTIM’s extensive local and national experience and existing databases on waste quantities, management practices, infrastructure, and host agreements will provide immediate information to facilitate discussions with the County, allowing our efforts to best focus on compiling additional information that may be desired by the County.

It is anticipated that we will collaborate primarily with the County’s Recycling Coordinator, with additional discussion held as needed with the Energy and Environmental Committee of the County Board to understand key considerations they desire to address as part of the 2020 Plan Update and provide necessary data and information to formulate recommendations for the next five-year plan period.

SECTION III. PROPOSED SCOPE OF SERVICES

Preliminary Work Plan

APTIM has developed the following summary work plan (subject to further discussion, modification, and finalization with the County) based on our review of the RFQ and two addenda; a preliminary review of the 2015 Plan Update and prior updates; and our extensive experience completing solid waste plan updates in Illinois and planning projects across the U.S. Our work plan is organized into eight principal tasks, generally aligned with the key deliverables identified by the County and organized to provide a logical flow of work tasks building up to the final 2020 Plan Update report.

Task 1. Project Kick-Off

APTIM will meet with the County's Recycling Coordinator for an initial project kick-off and planning meeting. The purpose of the kick-off meeting will be to:

- Review and confirm the scope of work and schedule for the 2020 Plan Update
- Identify areas of principal responsibility and priority for APTIM and the County at each project stage
- Identify and review existing data collected and maintained by the County and other local and regional planning entities that may be utilized for the project
- Discuss the status of 2015 Plan Update recommendations and solid waste-related developments in Kane County and the region as a whole over the past 5 years
- Begin discussing potential recommendations for inclusion in the 2020 Plan Update based on preliminary input from the County's Recycling Coordinator and the Energy and Environmental Committee of the County Board

*Deliverables: Meeting agenda, to be provided in advance of the meeting for review and comment
Meeting summary, including an updated project schedule and targeted deliverable dates*

Task 2. Status of 2015 Plan Update Recommendations and Overall County Goals

In preparation for the kick-off meeting, APTIM will review the recommendations of the 2015 Plan Update to guide discussion regarding the current status of solid waste programs in the County. As recycling markets continue to be challenged, processing effort and costs may be increasing and recycling collection operations may begin to see impacts in the form of cost increases, changes in acceptable materials, and increased adherence to recycling stream quality and contamination specifications. These changes will be important to discuss with the County and address in the 2020 Plan Update, as it may have an impact on future policy direction and objectives of the County. In addition, the pending purchase of Advanced Disposal Services by Waste Management may have an impact on market conditions as these two companies own key solid waste infrastructure in the County currently.

APTIM will also review legislative changes that have occurred since the 2015 Plan Update that may impact County programs, including but not limited to legislation related to electronic wastes, organic wastes (particularly food scraps), and commercial waste franchises. Diversion and recovery of e-wastes and food scraps have been a central focus for the County in recent years, and are expected to continue to be an important element of its programs going forward. APTIM will also monitor the status of the Statewide Materials Management Advisory Committee, which is being convened in accordance with Illinois Public Act 101-0074 to develop a series of statewide recommendations and provide counties direction for future solid waste management plans. While the work of the Statewide Materials Management Advisory Committee is not planned for completion until mid-2021 and is therefore unlikely to have a direct or immediate impact on the County's 2020 Plan Update, preliminary insights from early meetings of the committee may provide additional input to the County's update.

Based on information gathered in the kick-off meeting and subsequent data provided by the County on programs implemented on the County level and by individual municipalities, APTIM will prepare a summary memo providing analysis of prior Plan Update recommendations, their effectiveness and performance achieved, and our suggested direction for consideration of recommendations in the 2020 Plan Update. The memo will also identify elements for potential consideration in the 2020 Plan Update related to sustainability factors such as environmental impacts (e.g., greenhouse gas emissions), costs and funding, and compatibility with existing programs and infrastructure. This final element is an important consideration given the County's reliance on the private sector to provide many of the services and the facilities utilized for diversion and disposal of the County's waste stream.

Deliverables: Summary memo addressing effectiveness and status of 2015 Plan Update recommendations and providing guidance on 2020 Plan Update recommendations

Task 3. Updated Needs and Market Assessment

APTIM will assist the County to develop an updated analysis of waste flows, including calculation of waste quantities and identification of diversion and disposal facilities utilized by private haulers operating in the County. APTIM will also provide regional information on waste handling practices and facilities that may be available to the County in the future, based on existing and proposed developments. We will draw upon our extensive local and regional experience siting and permitting solid waste facilities and providing procurement support to local governments, as well as our more than 20 years of compiled comprehensive solid waste quantity and disposal rate calculations, to provide this information to the County early in the planning process.

Based on this analysis, APTIM and the County will discuss and assess the potential need for development of additional infrastructure, such as transfer stations, recycling facilities, and compost facilities, to support solid waste disposal and diversion programs in the County in the future. In addition, infrastructure and programmatic options for management of material streams such as HHW and C&D will also be evaluated, drawing on analysis of options for these waste streams that has been completed for other area counties and waste agencies in recent years where appropriate. To the extent that existing or potential future options may also manage industrial wastes or agricultural wastes, these practices will also be noted for the County's consideration in developing recommendations; however, it is noted that these waste streams are not subject to County solid waste plan requirements and therefore not typically addressed in County solid waste plans, with inclusion in the 2020 Plan Update relevant only to the degree that collaborative efforts or sharing of resources to serve multiple waste streams may impact management of the County's municipal waste stream.

*Deliverables: Calculation of current disposal rates and generation rates
Summary tables documenting existing infrastructure
Summary tables, graphics, and/or maps documenting current waste flows
Collaborative analysis with County of need for additional infrastructure / capacity*

Task 4. Regional and National Best Practices Analysis

APTIM will supplement the local data and analysis completed in Task 3 with regional and national data on best practices in waste diversion and solid waste management strategies. APTIM has recently completed a number of planning projects with progressive, diversion-minded communities including several communities pursuing Zero Waste goals. This provides us a diverse, existing database of best practices to draw upon, which can be supplemented with additional research as needed based on the County's preliminary recommendations for the 2020 Plan Update.

Best practices are expected to consider diversion and disposal practices, service delivery methods, education and outreach strategies, and funding options implemented in other communities similar to the County. To the degree data and information is available in our existing database, select best practices will

also include estimated diversion performance impacts, cost impacts, and/or implementation experience to provide additional information for the County's consideration of future recommendations and policies.

Deliverables: Summary best practices for the County's incorporation into the Plan Update

Task 5. Pollution Control Facility Siting and Host Community Benefit Agreement Specifications

The County's RFQ specifically identified a desire for the consultant to address local siting of transfer stations, as these are the principal facilities relied upon for transport of most collected materials (waste, recyclables, and organics) from the County. APTIM proposes to address siting of transfer stations in addition to other potential pollution control facilities that could be proposed within the County (e.g., waste-to-fuel facilities, if classified as a pollution control facility), identifying siting requirements that are recommended to be met for any proposed facility. APTIM will draw upon requirements for such facilities established by other counties in the region, as well as our experience participating in a number of local siting approval proceedings and knowledge of private developers' interests in pursuing facility developments, to propose appropriate requirements for the County's consideration.

In addition, APTIM will review specifications for Host Community Benefit Agreements and the prior template agreement developed by the County to recommend updated specifications for host agreements for any proposed facilities. We maintain a database of host agreements for all facilities in the region, providing us a wide range of existing information to draw from in the development of these specifications. We will also refer to specifications established by other area counties in their solid waste plans. These data sources, as well as APTIM's extensive experience negotiating host agreements and working with private companies to develop facilities will provide valuable guidance to the County on agreement specifications that are both beneficial to the County and palatable for private developers.

*Deliverables: Draft text section addressing facility siting requirements
Updated Host Community Benefit Agreement specifications for proposed facilities*

Task 6. Supporting Data and Analysis for 2020 Plan Update Recommendations

APTIM will supplement the data and analysis provided in the preceding tasks as necessary to assist the County in formulation of additional 2020 Plan Update recommendations. This task is likely to include minimal additional analysis, as the most relevant information is expected to be provided in Tasks 3, 4, and 5 to guide recommendations for the 2020 Plan Update. Specific data and analyses to be compiled for this task will be further discussed with the County as the Plan Update progresses.

Deliverables: Data and analyses as necessary based on preliminary 2020 Plan Update recommendations

Task 7. Plan Formatting and Finalization

APTIM will compile the draft 2020 Plan Update, consolidating narrative text sections provided by the County and incorporating graphics including tables, charts, and pictorial representations as appropriate to emphasize key data in the report. A preliminary report template that is both visually appealing and in a format that will be easily utilized by the County for future updates will be developed early in the project for review and approval by the County to facilitate final compilation of the Plan Update.

Concurrent with compilation of the draft report, APTIM will also proofread and edit the document as needed for internal consistency, completeness, and clarity, with any notable changes tracked for the County's review and acceptance. APTIM has provided similar services for the Solid Waste Agency of Lake County during completion of its most recent three five-year Plan Updates.

Finalization of the 2020 Plan Update is anticipated to include a series of reviews followed by incorporation of comments and feedback. The following review and feedback cycles are expected:

- Initial draft review by the County's Recycling Coordinator
- Final draft review by the County's Recycling Coordinator
- Public comment draft review, with incorporation of public comments received
- Final Plan review by the County's Recycling Coordinator

Addressing comments and incorporating feedback will be a collaborative task of APTIM and the County's Recycling Coordinator, with specific responsibilities of each party identified initially at the project kick-off and confirmed as the drafting stage commences.

*Deliverables: Template report format for review and approval
Draft compiled 2020 Plan Update in Microsoft Word format
Public comment draft compiled 2020 Plan Update in Microsoft Word and PDF format
Final compiled 2020 Plan Update in Microsoft Word and PDF format*

Task 8. Meetings

APTIM will participate in meetings with County staff and elected officials as needed throughout the completion of the 2020 Plan Update process. Our project team is based in APTIM's St. Charles office, just a 10-minute drive from the County's offices, providing convenience and ease of meeting at any point during the project. For planning purposes, we have assumed the following meetings may occur; this list may be modified over the course of the Plan Update project based on discussion with the County:

- Three to five in-person meetings with the County's Recycling Coordinator to review project data, progress, analyses, and deliverables
- Meeting attendance and presentation to the Energy and Environmental Committee during the initial stages of the project, likely providing feedback on Tasks 2 and 3 to guide discussion on potential recommendations for the 2020 Plan Update
- Meeting attendance and presentation to the Energy and Environmental Committee in collaboration with the County's Recycling Coordinator on the draft 2020 Plan Update
- Attendance at the public hearing on the draft 2020 Plan Update

Deliverables: Meeting attendance as requested by the County, with supporting presentation materials as necessary

Budget Estimate and Fee Schedule

Based on the scope of work proposed above and the County's allocated budget of \$34,000, APTIM has developed the breakdown of hours by task and key team members presented in Table 1 below. Key team members' billing rates are noted in Table 1; additional staff may be utilized as necessary to support individual project tasks, billed in accordance with APTIM's standard fee schedule (refer to Appendix A).

Services will be billed on a time-and-materials basis, not to exceed the County's established budget. Invoices will be submitted monthly and will show all labor hours expended at the hourly billing rates for key team members provided in Table 1 or as otherwise specified on our fee schedule.

Due to the proximity of the County's offices to our project team's office in St. Charles, and the expectation that no expenses other than travel-related expenses would be incurred on the project, APTIM proposes to not charge any reimbursable expenses to the County.

TABLE 1. PROJECT BUDGET BREAKDOWN

	Devin Moose	Christina Seibert	Phil Kowalski	Support Staff	Subtotal Cost
Billing Rate (\$/hour)	\$230	\$160	\$230	\$95	
Task 1. Project Kick-Off		6	2		\$1,420
Task 2. Status of 2015 Plan Update Recommendations and Overall County Goals		8	2		\$1,740
Task 3. Updated Needs and Market Assessment	2	32	6		\$6,960
Task 4. Regional and National Best Practices Analysis	2	36	6		\$7,600
Task 5. Pollution Control Facility Siting and Host Community Benefit Agreement Specifications	4	20	2		\$4,580
Task 6. Supporting Data and Analysis for 2020 Plan Update Recommendations		20			\$3,200
Task 7. Plan Formatting and Finalization	2	12	2	16	\$4,360
Task 8. Meetings	4	16	2		\$3,940
Project Total					
Labor Hours	14	150	22	16	202
Cost	\$3,220	\$24,000	\$5,060	\$1,520	\$33,800

Project Schedule

APTIM recognizes that the County has significant institutional knowledge of its programs and history and is in regular communication with other counties locally and statewide on solid waste matters. We bring extensive knowledge of disposal trends, infrastructure, and solid waste planning both locally and nationally to this project. Maintaining a close working relationship with the County throughout development of its 2020 Plan Update with ample communication and collaboration will be essential to planning success.

A preliminary project schedule is provided in Table 2, subject to further negotiation and refinement with the County upon contract award. The project schedule assumes project work commences in December 2019 and the initial draft of the 2020 Plan Update is completed within approximately 6 months; this timeline is consistent with similar projects APTIM has completed, but may be modified following further discussion with the County based on anticipated meeting dates and other guiding project elements.

In addition to the meetings depicted in Table 2, APTIM proposes to conduct regular meetings or phone calls with the County's Recycling Coordinator to provide status updates, discuss and resolve data needs, and review preliminary findings. APTIM expects these meetings will occur approximately monthly during the plan development phase of the project, though actual timing and frequency will be dependent on tasks being completed at various points in time.

All work will be directed by the Project Manager, Christina Seibert, who will be responsible for meeting timelines and adhering to budget. Overall work quality will be overseen by the Project Director, Devin Moose.

As noted previously, all key project team members have worked together for nearly 2 decades or more, assuring continuity and responsiveness to the County's needs.

TABLE 2. PROJECT SCHEDULE									
Task Month	1	2	3	4	5	6	7	8	9
Task 1. Project Kick-Off	X								
Task 2. Status of 2015 Plan Update Recommendations and Overall County Goals			X						
Task 3. Updated Needs and Market Assessment									
Task 4. Regional and National Best Practices Analysis									
Task 5. Pollution Control Facility Siting and Host Community Benefit Agreement Specifications									
Task 6. Supporting Data and Analysis for 2020 Plan Update Recommendations									
Task 7. Plan Formatting and Finalization									
Initial Plan Draft						X			
Final Plan Draft								X	
Task 8. Meetings									
Input Meeting with Energy and Environmental Committee			X						
Presentation of Draft Plan to Energy and Environmental Committee							X		
Public Hearing									X

SECTION IV. STATEMENT OF QUALIFICATIONS

Company Background

APTIM is a full-service environmental consulting company specializing in solid waste, resource management, and remediation. We provide services to both units of government and private industry. Our broader company also provides additional services, including engineering, procurement and construction (EPC) services, disaster response, program management, and facilities management. Our primary customer sectors include government, industrial and commercial, oil/gas/chemical, and power.

APTIM is a nationally recognized provider of solid waste solutions to government and private clients. Our company provides a complete line of services including solid waste planning, waste quantity and composition studies, solid waste engineering, construction, operations and maintenance, and equipment fabrication. APTIM's team of professionals brings the industry's most innovative solutions to our clients.

APTIM's Solid Waste Services Group began as the solid waste consulting firm EMCON in 1971. Since that time, we have expanded our services and capabilities to become one of the largest providers of integrated solid waste services in the U.S. We have also expanded our service capabilities (including other environmental and infrastructure services) through several mergers. Our growth is chronicled by these key events:

- From 1971-2001, EMCON gradually expanded to become a national firm providing customer-focused engineering, construction and operations and maintenance services for a diverse clientele in both the private and public sectors.
- In 2002, EMCON was acquired by The Shaw Group, a Louisiana-based engineering and construction company and global service provider with more than 25,000 employees and 150 offices worldwide.
- In 2013, Chicago Bridge & Iron Company (CB&I), a Netherlands-based engineering, procurement and construction company, acquired The Shaw Group, resulting in a global workforce of 50,000 employees.
- In July 2017, Veritas Capital acquired CB&I's Capital Services business unit, representing the solid waste consulting, engineering, fabrication, and construction group; environmental engineering and remediation; infrastructure EPC services; program management; and disaster response and recovery services. Veritas Capital is a New York based private-equity firm founded in 1992, investing in companies that provide critical products and services, primarily technology and technology-enabled solutions to government and commercial customers. Veritas Capital rebranded CB&I's Capital Services to APTIM, and our solid waste services group is now operating as APTIM Environmental & Infrastructure, LLC.

Project Staffing

APTIM has assembled an experienced project team to assist Kane County with its Solid Waste Management and Resource Recovery Plan Update. **All of our key project team members have 18 years or more of individual consulting experience, and on a combined basis more than 85 years of experience.** Our team includes experts in solid waste planning and program implementation. Brief professional summaries of key team members are provided below. Detailed resumes are provided in Appendix B.

Devin Moose, P.E., DEE - Project Director. Mr. Moose will provide peer review and technical oversight during the project. Mr. Moose is the National Director of APTIM's Solid Waste Consulting and Engineering practice and has more than 36 years of solid waste industry experience. He directs the execution of solid waste planning and procurement projects and the planning, design, and permitting of solid waste transfer stations, recycling facilities, compost facilities, and disposal facilities. Mr. Moose supervises the development of economic impact studies and facility business plans, provides contract negotiation expertise for solid waste

contracts, performs public presentations for solid waste plans and solid waste facilities, and provides expert witness testimony.

Christina Seibert – Project Manager. Ms. Seibert is an environmental scientist and solid waste planner with 18 years of solid waste planning and consulting experience. She has worked with both public sector and private sector clients to complete a wide range of planning and implementation assignments, including recent work with a number of communities to implement and monitor their progress towards zero waste goals. She has prepared solid waste management plans for local governments and needs assessments for solid waste facilities. She has also conducted feasibility studies, prepared economic evaluations, performed waste characterizations, and assisted with the preparation of siting and permit applications for solid waste facilities. She was the principal author and SWANA instructor for its Managing Integrated Solid Waste Management Systems training course. She will serve as the Project Manager for the County's project and will be the principal point of contact throughout the project.

Phillip Kowalski – Lead Planner. Mr. Kowalski is a principal planner and financial expert with 31 years of solid waste consulting experience. His project experience has included planning, procurement, and plan implementation services for metropolitan governments, rural communities, and regional agencies across the United States. He has worked on more than 60 needs assessments and solid waste management plans. Mr. Kowalski is responsible for conducting regulatory, statistical, and economic analyses as part of a multi-discipline project team. He develops project cost estimates and develops business and marketing plans for all types of solid waste facilities. He also prepares permit applications, solid waste needs assessments, and economic feasibility studies.

Subcontractors

APTIM provides all the services identified in the County's RFQ. No subcontractors will be utilized for the County's project, providing single-point accountability.

Specialized Experience

APTIM provides comprehensive solid waste planning consulting services in the core areas described below. Our technical expertise in all of these areas distinguishes APTIM from our competitors and makes our team uniquely qualified to assist the County to complete its plan update.

Planning and Market Analysis

APTIM is a leading provider of solid waste planning and consulting services for government clients throughout Illinois. Our project team members have assisted 40 jurisdictions in Illinois to develop solid waste management plans and plan updates (see Figure 2), including most jurisdictions in the Chicago metro-area and numerous solid waste agencies. Further, we have provided planning-related services to government and private sector clients in 17 other counties, typically during the local siting process for new or expanded solid waste facilities. Our planning experience therefore includes over half of the counties in Illinois, and an even greater proportion of the State's population.

In addition to our local experience, APTIM has significant experience completing planning studies for public agencies throughout the U.S., including Alaska, California, Florida, Illinois, Indiana, Iowa, Michigan, Minnesota, New Jersey, New Mexico, New York, Ohio, Pennsylvania, Texas, and Wisconsin. In total, we have developed comprehensive solid waste management plans for over 60 public agencies representing over 9 million people, and have also assisted with the implementation of many of those plans. As a result, we have expert understanding of waste management strategies, programs and facilities that are being evaluated and developed across the nation.

To provide direction to local communities and establish a basis for implementing future policies and strategies, our comprehensive solid waste management plans include inventories of existing conditions, programs, and facilities; evaluation of diversion and disposal alternatives; cost analysis of specific programs and/or facilities; recommendations for near-term and long-term implementation; and system cost impacts of the recommended options. Our planning-related experience includes the following types of services and studies:

- Population and employment projections
- Facility/technology feasibility analyses
- Waste characterization studies
- Life-cycle cost evaluations
- Waste generation projections
- Transportation evaluations
- Market assessments
- Procurement services
- Economic evaluations
- Public education services
- Waste diversion programs

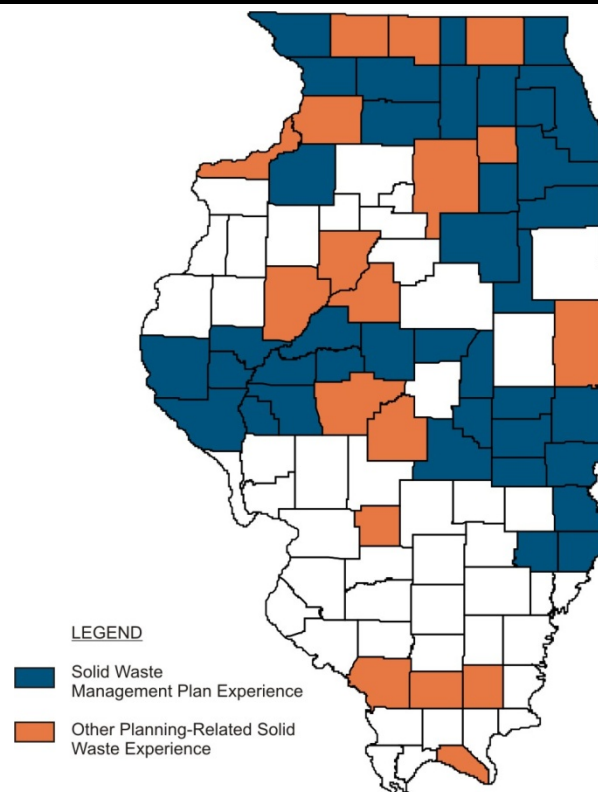


FIGURE 2. ILLINOIS PLANNING EXPERIENCE

All of our plans have included consideration of environmental, commodity market pricing, and energy impacts of solid waste alternatives. Over the past 25 years, jurisdictions have paid increased attention to greenhouse gas emissions and other air emissions, as well as employment and other social aspects of solid waste management alternatives. APTIM has performed detailed assessments of such factors on numerous planning engagements.

Solid Waste Facility and Program Design

APTIM also assists clients to implement solid waste projects, whether it is a single program or facility or a complete, integrated solid waste management system. We provide design, permitting, construction and operation of a variety of solid waste facilities and programs. We have experience with hundreds of programs and facilities throughout the U.S., including recycling programs and facilities, convenience and drop-off centers, composting facilities, transfer stations, landfills and waste-to-energy facilities (including emerging thermal conversion facilities).

Each of the solid waste management plans we have helped develop includes a comprehensive assessment of diversion options. Recycling and composting have grown to become established components of solid waste systems, but there is renewed interest in further increasing waste diversion activities. We have assisted a number of clients to evaluate and/or implement enhanced recycling programs such as the following:

- Program management of a pilot study to evaluate in-sink disposal units as a means to achieve waste reduction and manage organic waste
- Development of a comprehensive Organics Management Plan
- Incorporation of a multi-purpose material recovery, household hazardous waste, and citizens' convenience center at a publicly-owned and privately-operated landfill

- Nationwide evaluation of infrastructure for managing CRT glass
- Feasibility study of converting inactive concrete grain silos to anaerobic digesters for organic wastes
- Development of procurement documents (RFI/RFP) and energy market assessment for conversion technology facilities
- Feasibility evaluation for development of an in-vessel composting facility to process organic wastes performed for one of the largest in-vessel facility developers in the U.S.
- Design and permitting of a mixed C&D material processing and recycling facility
- Permitting of a shingle processing facility to reclaim asphalt shingles and produce recycled asphalt pavement
- Development of a C&D materials management plan for a \$100 million riverfront redevelopment project
- Investigation and evaluation of beneficial end uses for trommel fine materials (100,000 tons per year) from material recovery and recycling facilities
- Evaluation of a Dirty-MRF addition to an existing transfer station in a rural area in an effort to meet aggressive recycling goals
- Evaluation of conversion from multi-stream to single-stream curbside recycling collection
- Benchmarking quantities and costs of current drop-off recycling program
- Design of an outdoor recycling area for appliances, tires, C&D waste, wood waste, and biosolids at a planned transfer station



Willco Green C&D Processing, Illinois



Asphalt Shingle Processing Facility

Though many current planning efforts are focused on diversion strategies, disposal of the remaining waste also continues to be a key element of solid waste management plans and systems. In Illinois, the existing disposal infrastructure primarily consists of landfills (with transfer stations an “intermediate” type facility intended to make transport of waste more efficient), the vast majority of which are owned by the private sector. APTIM has assisted the private sector to site and permit much of the existing transfer and landfill infrastructure in Illinois, and our government clients to procure disposal capacity as well as develop disposal facility siting policies in their solid waste management plans. We are also assisting clients throughout the U.S. to evaluate emerging technologies (such as thermal conversion technologies) as potential alternatives to landfill disposal. APTIM is uniquely-qualified to assist the County with evaluating both near-term and potential long-term disposal alternatives as part of the Plan Update process.

Procurement Support

APTIM has helped numerous other government clients to procure a range of solid waste services including contracts for: transfer, transport and disposal capacity; collection services; construction services; operation of solid waste facilities; solid waste processing equipment; recyclables processing capacity; and, organics processing capacity. Our procurement services have included reviewing existing operations to assess adequacy of contract terms, establishing desired scopes of service and potential alternatives, assessing market conditions that may impact proposal responses, drafting procurement documents including Requests for Qualifications and Requests for Proposals, reviewing vendor submittals, providing negotiation assistance, and presenting recommendations to decision-makers.

We are unique in that we have also helped private clients to respond to RFPs issued by units of government. We understand the hauler/service provider perspective and can provide planning and programming guidance resulting in successful public-private partnerships. Our procurement experience is national in scope and gives us insight into overall pricing and service trends in different regions of the U.S.

Public Outreach & Engagement

Nearly every solid waste project APTIM is involved in, from planning to program and facility development, includes some level of stakeholder and public engagement. This experience extends to procurement projects, which include vendor pre-proposal meetings, contract negotiations, and presentation of procurement results to elected officials. All of APTIM's key personnel for the County's project have experience providing expert witness testimony and explaining technical material to elected officials, service providers, and the general public. Our public outreach experience will be valuable to the County as Plan items are discussed and finalized.

Project Descriptions and References

Brief project summaries for three recent, similar planning engagements in Illinois are provided below. All of the projects described were performed by our key project team members. Reference contacts are also provided for each project; we encourage the County to contact our references to confirm our high quality of work. Additional project summaries and references are available upon request for planning projects completed in Illinois and other locations across the U.S.

Solid Waste Agency of Northern Cook County, Illinois: 20-Year Solid Waste Plan Update

The Solid Waste Agency of Northern Cook County (SWANCC) is a regional consortium of 23 municipalities representing more than 700,000 residents, serving to provide cost-effective, long-term waste disposal for its members and recycling programs for select materials. The Agency currently owns a transfer station and contracts with a private company to operate the facility and transport waste to a regional landfill for disposal. Its member communities also have residential recycling rates that are among the highest in the region, and the Agency provides waste reduction programs in areas such as sharps/pharmaceuticals, bulbs, and electronics.

Reference Contact:

Mr. David Van Vooren
Executive Director
Phone: (847) 724-9205
Email: dvv@swancc.org

APTIM personnel have assisted SWANCC on solid waste planning issues for more than 30 years, dating back to the development of its initial solid waste needs assessment and long-term solid waste management plan starting in 1988. In 2014, APTIM assisted SWANCC to update its solid waste management plan. The Update entailed researching, compiling and analyzing solid waste disposal quantities; analyzing a number of options to increase waste diversion, expand the services provided by the Agency for market areas not well-served by the private sector, and optimize the use of existing Agency infrastructure; identifying opportunities to increase revenue to the system to offset member costs for special programs; and assessing future disposal alternatives. Members identified cost-effectiveness and competitiveness with the private sector as important considerations for their solid waste system, and these factors were therefore an important consideration during the planning process.

Solid Waste Agency of Lake County, Illinois: Five-Year Solid Waste Plan Updates (2009-2019)

SWALCO has retained APTIM to perform an update to the waste generation and composition portion of the Lake County Solid Waste Management Plan for its 3 most recent five-year plan updates (2009, 2014, and 2019). SWALCO's 2019 update was the 20-year update to the original Plan and was the first time that waste generation data was comprehensively evaluated since the Plan was first adopted. APTIM reviewed the existing waste management system in Lake County. We also evaluated recycling and waste disposal data provided by local haulers and waste management facilities to develop estimates of per capita

Reference Contact:

Mr. Walter Willis
Executive Director
Phone: (847) 377-4951
Email: WWillis@swalco.org

waste generation and waste disposal. Based on demographic projections and current generation and disposal rates, APTIM developed projections of future waste quantities. We also reviewed available data from recent waste characterization studies to assess the composition of landfilled waste. Subsequent updates of the analysis have been completed in 2014 and 2019 utilizing a similar methodology. The current 2019 update is expected to be completed this year and includes expansion of the analysis to quantify the impact of recycling contamination on overall diversion progress. APTIM has also provided overall Plan Update proofreading, compilation, and formatting (with narrative text developed by SWALCO and others) to provide a uniform appearance and consistency to the comprehensive document in 2009, 2014, and 2019.

Additional supporting tasks have also been provided subsequent to Plan Update completion. The 2009 SWALCO Plan Update established a goal of 60% recycling by 2020 and recommended a task force be established to evaluate the methods by which the County could reach 60% recycling. APTIM presented the Plan data to the task force to establish a baseline understanding of waste quantities and management methods in the County. APTIM also developed a draft C&D recycling ordinance to be offered to municipalities in Lake County as an additional tool to increase diversion.

West Cook County Solid Waste Agency, Illinois: Comprehensive Planning & Implementation Services

APTIM has been the principal consultant to WCCSWA for over 15 years, assisting the Agency and its 35 member communities (representing a population of 560,000) on a number of solid waste planning and implementation projects. APTIM assisted WCCSWA to prepare a comprehensive update to the Agency's solid waste plan, which included an updated analysis of waste generation rates and a feasibility analysis of alternative waste management technologies, including municipal solid waste composting, waste-to-energy, source reduction programs, commercial recycling, and construction and demolition debris recycling. APTIM also assisted the Agency to prepare a subsequent 10-year update to the plan. During both planning processes, APTIM worked closely with Agency staff to review alternatives and to present the plan updates to board members and reach consensus on a solid waste strategy.

Reference Contact:

Mr. Neil James

Executive Director

Phone: (708) 453-9115

Email: njames@westsubwaste.org

A unique element of WCCSWA's program is the Regional Disposal Project (RDP), which APTIM staff assisted the Agency to plan, design, and implement. This innovative program, which commenced operations in 1997, is a voluntary, cooperative effort of participating members to jointly pool their waste and procure cost-effective, long-term disposal capacity at privately-owned transfer stations and landfills. As part of the most recent plan update, the Agency requested APTIM to complete a benchmark analysis of the RDP to determine whether this sustainable program was meeting project goals. APTIM evaluated hauling contract data for both participating and non-participating communities, which indicated the RDP was successfully achieving its program goals and providing participants with savings of 10-15 percent. This is a unique instance in which a unit of government proactively tested and evaluated the performance of an important environmental initiative. APTIM continues to assist WCCSWA and member communities with procurement of solid waste collection, recycling and composting services.

Evidence of Insurability

APTIM's standard insurance coverages are documented on the sample Certificates of Insurance included in Appendix C. Upon contract award, Certificates of Insurance with the required endorsements listing the County as additional insured will be provided.

APPENDIX A

APTIM FEE SCHEDULE



APTIM Environmental & Infrastructure, LLC
2019 Fee Schedule
 (Effective 6/1/2019)

<u>Title</u>	<u>Rate</u>
Principal	\$230.00
Engineer / Geologist / Environmental Scientist	
Planner	
Designer	
Project Administrator	
Project Manager IV	\$180.00
Engineer / Geologist / Environmental Scientist	
Planner	
Designer	
Project Administrator	
Project Manager III	\$160.00
Engineer / Geologist / Environmental Scientist	
Planner	
Designer	
Project Administrator	
Project Manager II	\$140.00
Engineer / Geologist / Environmental Scientist	
Planner	
Designer	
Project Administrator	
Project Manager I	\$125.00
Engineer / Geologist / Environmental Scientist	
Planner	
Designer	
Project Administrator	
Professional Level III	\$105.00
Engineer / Geologist / Environmental Scientist	
Planner	
Designer	
Project Administrator	
Professional Level II	\$95.00
Engineer / Geologist / Environmental Scientist	
Planner	
Designer	
Project Administrator	
Professional Level I	\$80.00
Engineer / Geologist / Environmental Scientist	
Planner	
Designer	
Project Administrator	
Technician	
Level IV	\$70.00
Level III	\$60.00
Level II	\$50.00
Level I	\$40.00
Administrative Assistant	\$56.00

Depositions and expert witness testimony, including preparation time, will be charged at 1.5 times the above rates.



APTIM Environmental & Infrastructure, LLC
2019 Fee Schedule
(Effective 6/1/2019)

<u>Title</u>		<u>Rate</u>
Vehicle (day) plus gas		\$75.00
Vehicle Expense (Cost +15%)	Cost	15%
Disposable Bailers (2")		\$8.00
Disposable Bailers (1")		\$7.00
Misc. Sampling Supplies (day)		\$45.00
Groundwater Sampling Tubing (foot)		\$0.35
Caution Tape (roll)		\$18.00
Encore Sampler (each)		\$8.00
QED 0.45 Micron Disposal Filters (each)		\$18.00
Steel Well Lock (each)		\$8.00
2" Grippers (each)		\$25.00
Disposable Camera (each)		\$10.00
Laptop Computer (day)		\$75.00
LCD Projector (day)		\$100.00
Projection Screen (day)		\$25.00
Digital Camera (day)		\$20.00
Camcorder (day)		\$15.00
Tripod (day)		\$15.00
Soil Probe (day)		\$25.00
Interface Probe (day)		\$45.00
Water Level Indicator (day)		\$45.00
Infrared Thermometer (day)		\$10.00
PID (day)		\$90.00
Slug Test Equipment (day)		\$125.00
Nasal Ranger Scentometer (day)		\$75.00
Air Compressor Controller Sampling System (day)		\$160.00
Cond./Temp/pH Meter (day)		\$35.00
Multi-Parameter Water Quality Meter (day)		\$80.00
GEM-500 (day)		\$125.00
Drager Bellows Pump (day)		\$10.00
Water Purge Pump (day)		\$30.00
Lo-Flow Sampling Pump (Peristaltic Type) (day)		\$95.00
4-Gas Meter (day)		\$20.00
Tyvek Suit (Jump suit, gloves, boots) (day)		\$35.00
Hand Auger (day)		\$25.00
Sludge Judge (day)		\$35.00
Laser Level (day)		\$45.00
Field Boat (day)		\$50.00
Reimbursables, (Cost +15%)	Cost	15%
Communication/Shipping/Routine Copying	+ 3% of total gross labor	

Fee Schedule Rates are subject to change without notice.

Monthly invoices are to be paid according to the contract.
Interest will be charged on late payments.

APPENDIX B

KEY PERSONNEL RESUMES

Devin A. Moose, P.E., DEE**Director of Solid Waste Operations****Professional Qualifications**

Mr. Moose is the National Director of Solid Waste Services for APTIM, and is responsible for overall administration and technical review for all environmental permitting projects, planning studies and remediation projects for APTIM solid waste projects. He supervises the planning, design and permitting of solid waste disposal facilities, including landfills, transfer stations, recycling processing centers and composting facilities. Mr. Moose also directs the development and implementation of regional solid waste management plans and manages the engineering and hydrogeological analyses for design of remediation projects, solid waste landfills, containment features, UST and LUST projects, dry cleaner sites, brownfield redevelopment projects, groundwater monitoring systems, foundations, pavements, retaining walls, and slope stability analysis. Mr. Moose supervises the development of engineers' cost estimates, economic impact studies and facility business plans; provides contract negotiation expertise for host community agreements, solid waste facility development and operating contracts; performs public presentations for solid waste plans and solid waste facilities; and provides expert witness testimony.

Education

B.S., Civil Engineering, University of Missouri-Rolla

Registrations/Certifications

- Licensed Professional Engineer in Illinois, Wisconsin, Iowa, Indiana, Arizona, Ohio, New Mexico, Minnesota, and Missouri
- Diplomat of the American Academy of Environmental Engineers

Key Experience

- Supervised the development, completion and initial implementation of solid waste management plans for over 50 counties representing more than 7 million people. The needs assessment components of the plans included determining existing and future waste generation and recycling rates, and conducting curbside weighing programs and waste composition studies. The solid waste management plans included extensive evaluation and design of waste minimization and recycling programs. Final reports included evaluation of alternate disposal technologies and recommendation of a final integrated system for future solid waste management. The plans have received awards from the American Planning Association and the Consulting Engineers Council.
- Directed development of economic performance studies for solid waste facilities including landfills, recycling centers, transfer stations, collection vehicles, construction demolition debris recycling facilities, and recycling drop-off facilities. Analyses included waste stream analyses, market area assessments, system construction cost estimates, operating cost estimates, and calculation of financing costs. System studies included review of existing solid waste facilities, analyses and recommendations for improvement as well as comprehensive waste audits.
- Preparation of supporting data and participation in contract negotiations for solid waste facilities. Scope of work included host community benefit agreements, negotiation of special conditions for landfill and transfer station siting approval, contracts for construction and operation of waste and recycling facilities, drafting local ordinances governing landfills and transfer stations, as well as other solid waste related facilities.
- Supervised development of comprehensive local, state and federal permit applications for construction of landfills, balefills, and compost facilities. Siting and permitting activities include facility design and analyses, preparation of operating and closure plans, and interaction with permitting agencies, elected officials and members of the public. Supervised development of engineering due diligence reports for landfill acquisitions. Provided expert witness testimony and assists units of local government reviewing facilities for compliance with applicable regulations, supervised remedial action plans for numerous landfill facilities.
- Managed geotechnical and hydrogeological analyses for design of solid waste landfills, containment features, groundwater monitoring systems, foundations, pavements, retaining walls, dewatering systems, slope stability analysis, monitoring well construction, field permeability testing and groundwater modeling.

- Managed the development of site locations studies for regional solid waste facilities and recycling centers. Studies included transportation analyses, development of siting criteria, public consensus building and site identification.
- Expert testimony on solid waste related facilities and studies. Expert witness testimony experience at over 50 proceedings. Development of public education programs, including information booklets, videos, power point presentations, graphics, public presentations, and field trips.

Selected Project Experience

Solid Waste Management Planning

Boone County Iowa
 Carroll County
 Central Illinois Municipal Joint Action Agency
 City of Freeport
 City of Orlando
 Coles County Regional Planning Comm.
 Crawford County
 DeKalb County
 DeWitt County
 DuPage County
 East Central Solid Waste Commission
 Grundy County
 Henry County
 Iowa Department of Natural Resources

Jo Daviess County
 Kankakee County
 Lawrence County
 Lee County
 Livingston County
 Los Alamos County, New Mexico
 Mason County
 Menard County
 Ogle County
 Richland County
 Solid Waste Agency of N. Cook County
 West Central Illinois Regional Solid Waste Consortium
 Will County

Landfill Design, Permitting and Due Diligence

Amoco Chemical Landfill
 Belvidere Municipal Landfill No. 2
 Benton County
 Brickyard Disposal Landfill
 CC Landfill
 Clinton Landfill No. 3
 Clinton Chemical Waste Unit
 Coles County Landfill
 Congress Development Landfill
 Community Landfill
 Davis Junction Landfill
 Five Oaks Landfill
 Fox Moraine Landfill
 Freeport
 Greene Valley Landfill
 Herrin Municipal Landfill
 H&L Landfill
 Indian Creek Landfill No. 2
 Kankakee Regional Landfill
 Lake County C & D
 LandComp Corporation Landfill
 Land & Lakes 122nd Street
 Lawrence County Disposal Centre Inc.
 Lee County Landfill
 Livingston Landfill
 Los Alamos County

Mallard Lake Landfill
 Marathon Oil Landfill
 Midway Landfill
 Morris Community Landfill
 Newton County Landfill
 Northwest Cook County Balefill
 Peoria City/County Landfill
 Pheasant Run Landfill
 Prairie Hills Landfill
 Rhodes Landfill
 Rochelle Landfill
 Rochelle Waste Disposal
 Saline County Landfill
 Sangamon Valley Landfill
 Settlers Hill Landfill
 Spoon Ridge Landfill
 Streator Area Landfill
 Taylor Ridge Landfill
 Tazewell RDF Landfill
 Various Permit Application Reviews for the City of
 Chicago Department of Environment
 Willow Ranch Landfill
 Winnebago Landfill
 Winnetka Landfill
 Woodland II Landfill
 Veolia ES Landfill

Transfer Station/MRF/Processing Facility Design/Permitting/Reviews

City of Batavia
 Bluff City Transfer Facility
 Brooks Transfer
 Calumet (Liberty) Transfer
 Carroll Street Transfer Station
 Chicago Disposal Transfer Station
 Clearing Disposal Transfer Station
 Cloverleaf Transfer Station
 Crown Disposal MRF/Transfer Station

DuKane Transfer Station
 DuPage Co. Recycling Drop-off Centers
 DuPage Yard Waste Facility
 City of Freeport Transfer Station
 Ellis Street Station Transfer Station
 Evanston Material Recovery Center
 Fullerton Station Transfer Station
 Greenwood Transfer Facility
 Groot Industries MRF/Transfer Station

Homewood Disposal Transfer Station
 Lake Transfer Station
 Los Alamos
 Loop Transfer Station \ 64th Street
 Loop Transfer Station \ Laflin
 City of Metropolis Transfer Station
 Midtown (Hoving) Transfer Station
 Midwest Compost Transfer Station
 Norton Mixed Waste Processing Facility
 Onyx Batavia Transfer Station
 Onyx Evanston Transfer Station

Planet Recovery (National)
 Rolling Meadows Transfer Station
 Solid Waste Authority of Central Ohio
 Speelman Transfer Station
 Virginia Road Transfer Facility
 West DuPage Transfer Station
 Wheeling Township Transfer Station
 Various Permit Application Reviews for the City of
 Chicago Dept. of Environment

Economic and Performance Studies

Brickyard Disposal Pro Forma Business Plan,
 Private Transfer Station
 City of Chicago Anaerobic Digestion
 Peoria City/County Landfill
 DuPage County Drop-off Centers
 Essex Windsor
 Evanston MRF Business Plan
 Groot Industries Transfer Station/MRF
 LandComp Corporation
 Los Alamos County

Nord MRF Business Plan
 Peoria City/County Landfill
 SWANCC Transfer Station No. 1
 SWANCC/Northwest Cook County Balefill
 Feasibility Analysis
 SWANCC Wheeling Township Transfer Station
 West Cook County Solid Waste Agency
 Regional Disposal Project
 Will County Arsenal Site

Contract Negotiation and Procurement

Bond County Landfill Siting Review
 City of Batavia Host Community Agreement
 City of Chicago Dept. of Environment Rules and
 Regulations
 City of Freeport Contract Procurement
 City of Freeport Hauling Lease and Host
 Agreements
 Coles County Landfill Siting Review
 Crystal Lake Transfer Station
 DeWitt County Host Community Agreement
 Douglas Co. Waste Disposal Agreement
 Greenwood Transfer Facility
 Henry County Host Community Agreement
 Jackson Co. Host Community Agreement
 Jackson Co. Landfill Siting Review
 Land Purchase Negotiations for Wheeling
 Township Transfer Station
 LaSalle Co. Host Community Agreement
 Lawrence Co. Host Community Agreement

Lawrence Co. Landfill Siting Review
 Lee Co. Landfill Ordinance
 Livingston Co. Host Community Agreement
 Livingston Co. Landfill Siting Review
 Livingston Co. Landfill Ordinance
 Ogle Co. Host Community Agreement
 Ogle Co. Landfill Siting Review
 Ogle Co. Landfill Ordinance
 Operating Contract for Wheeling Township
 Transfer Station
 Peoria City/County Landfill
 Regional Disposal Project, West Cook County
 Solid Waste Agency
 Richland Co. Host Community Agreement
 West Cook Co. Solid Waste Agency Regional
 Disposal Project
 Will County Landfill Siting Review
 Village of Lyons Annexation Agreement

Professional Affiliations

- American Academy of Environmental Engineers
- American Society of Civil Engineers
- Solid Waste Assoc. of North America
- National Society of Professional Engineers
- National Solid Waste Management Association
- Illinois Society of Professional Engineers
- Association of Engineering Geologists
- National Groundwater Association
- Illinois Recycling Association
- Illinois Counties Solid Waste Management Association

Christina M. Seibert

Solid Waste Planner / Environmental Scientist

Professional Qualifications

Ms. Seibert has 18 years of solid waste planning experience working with both public sector and private sector clients, including 15 years of direct project management experience. As a solid waste planner, Ms. Seibert is responsible for evaluating technical, regulatory, and economic feasibility of existing and proposed solid waste programs and facilities. Ms. Seibert is also responsible for the development of local solid waste management plans. She performs public outreach to support plan development and implementation and directs the development and execution of public education and training programs. She assists with the siting, design, and permitting of solid waste management facilities, including both disposal and diversion facilities. Current professional affiliations include the Solid Waste Association of North America (SWANA), including serving as a member of the Illinois Chapter of SWANA Board of Directors since 2005.

Education

B.S., Environmental Science, University of Iowa

Certifications

SWANA Certified Faculty, Managing Integrated Solid Waste Management Systems
SWANA Certified Faculty, Zero Waste Principles and Practices

Key Experience

- LA Sanitation / City of Los Angeles, California
Task lead for waste characterization component of LA Sanitation's (LASAN's) pilot study of the impact of in-sink food waste disposers on residential food scrap diversion. Developed field protocols for logging trash set-outs and for sorting collected waste from the pilot neighborhood. Provided waste sorting event management for four sorting events over a one-year period, including route driver and facility staff coordination, field lead and sorting crew training, field crew oversight of 30 crew members, data review and analysis, and report development.
- Austin Resource Recovery / City of Austin, Texas
Principal researcher and author of Austin's 2014 City-collected waste characterization study and 2015 citywide diversion rate study to measure implementation progress towards Austin's Zero Waste goal. Established field characterization protocols for waste and recycling sorting and for field observations of containers, developed and analyzed business surveys, and evaluated City-collected waste and diversion data. Performed data analysis to characterize the composition of the residential and commercial waste streams. The studies were the first of their kind to be completed to measure Austin's progress toward its Zero Waste goal.
- City of Ann Arbor, Michigan
Project manager for the development of a comprehensive organics management plan addressing organics from residential and commercial sources in the city. The goal of the organics management plan is to enhance diversion of organics from disposal, consistent with the city's objective of working towards Zero Waste. Plan development included research of management practices in other communities, evaluation of logistics and costs, and collection of public input through advisory committees and a community survey. Implementation support following plan development has included assistance in procurement of a new operating contract for the City's compost facility.

Co-project manager for the development of the City's updated Resource Management Plan, which will include review of current programs and costs as well as analysis of future options to advance Ann Arbor's diversion rate consistent with its policy goal of Zero Waste. The Resource Management Plan will include extensive community engagement through stakeholder interviews, focus groups, an advisory committee, and a scientific resident survey. It will also include benchmarking of peer communities and development of a robust cost of service model. Procurement support is also being provided for the City's recycling collection, recyclables processing, and commercial waste franchise collection contracts which will expire during the plan development period.

- City of Boulder, Colorado
Project manager for the completion of an assessment of 200+ outdoor parks and open space sites to identify existing waste and recycling management options in place and recommend changes for the city to comply with its Zero Waste service ordinance.
- Illinois Environmental Council / Illinois EPA
Project manager for a feasibility evaluation of co-locating an anaerobic digestion facility at an existing landscape waste composting facility. Reviewed organic waste quantities and sources within the region; identified competing facilities and current tipping fees; and developed an economic pro forma to determine the required tipping fee for the proposed facility.
- Solid Waste Association of North America
Primary author of the new “Managing Integrated Solid Waste Management Systems” training course, consisting of PowerPoint materials, a student course manual, and an instructor’s guide. The 3-day training course is intended to prepare solid waste system managers for the Integrated Solid Waste Management certification exam. The course provides a comprehensive study of all aspects of planning and managing integrated solid waste systems. Topics covered include a review of design and operating aspects of all types of solid waste management technologies, planning, budgeting, funding, procurement, and public education. Instructed the course at several annual national training centers held at SWANA’s WASTECON conference.

Prepared an update to the “Managing Transfer Station Systems” training course. The update included preparation of PowerPoint materials and a course manual for the 2 ½ day training course. Topics covered include transfer system planning evaluations, design and operating considerations, equipment requirements, and personnel training and safety considerations. Reviewed the certification exam offered by SWANA for consistency with course materials.
- Illinois Recycling Association / Illinois Department of Commerce and Economic Opportunity Recycling Toolkit
Project manager responsible for development of an online workplace recycling toolkit to assist businesses, schools and institutions to evaluate and implement waste reduction activities. Developed a comprehensive guidance document, including extensive resource materials. Prepared workshop training materials for a series of statewide workshops. Presented a series of 2-hour workshops to more than 300 businesses and local waste and recycling coordinators on the elements of the toolkit.
- Kuusakoski Recycling / Peoria Disposal Company
Project manager responsible for researching and developing a market assessment of cathode ray tube (CRT) devices. Work included developing nationwide estimates of CRT devices to be recovered and managed on an annual basis; summarizing state-level legislation and impacts on recovery of CRTs; quantifying existing end-use processing capacity available to manage CRTs; and assessing economics of existing processing options. Developed a white paper summarizing the research findings and presenting an alternative end-use market, developed by Kuusakoski Recycling and Peoria Disposal Company. Prepared a one-year update to the white paper. Assisted in preparing a petition to the Basel Action Network requesting modification of its e-Stewards certification standard to allow treated CRT glass to be placed in a retrievable storage cell in a permitted landfill. Authored Illinois House and Illinois Senate resolutions passed without changes urging the Basel Action Network to approve the petition.
- Solid Waste Agency of Northern Cook County (SWANCC)
Project manager for development of 20-year update to the Agency’s solid waste management plan, representing 23 member communities and 750,000 residents. Conducted visioning sessions with Agency leadership and public stakeholder meetings across the region to solicit input to the plan process. Developed survey questionnaire for random scientific telephone survey of residents to gauge attitudes and behaviors related to current and future waste management strategies. Coordinated development of updated waste generation and waste handling estimates and projections; evaluation of alternatives to increase diversion (residential and non-residential commodity recycling, textile recycling, construction/demolition debris management, organic waste management, household hazardous waste management); evaluation of regional collection options and long-term transfer and disposal options. The plan included 22 recommendations in the areas of recycling/disposal, education/outreach, and administration/organization, with implementation timeframes and responsible parties identified for each.

- *Solid Waste Agency of Lake County (SWALCO)*
Project manager for development of updated estimates of waste generation and inventory of solid waste handling methods for consortium of 43 communities representing 700,000 residents as part of the 4th 5-Year Update to SWALCO's solid waste management plan. Presented information both in report format for the plan and in a public meeting for SWALCO's 60% Recycling Task Force to assist in plan implementation.
- *Progressive Waste Solutions Procurement Assistance*
Project manager responsible for preparing successful proposal for development and operation of Phase 4A of the Jefferson Parish Landfill. Proposal included development of qualifications and demonstration of experience in similar projects in Louisiana, as well as knowledge of Louisiana regulations. Identified the scope of services to be performed and developed a comprehensive transition plan to facilitate the shift in operations from the current operator to Progressive.
- *Peoria Disposal Company Procurement Assistance*
Project manager responsible for preparing successful proposal for development and operation of an expansion to the Peoria City/County Landfill. Also prepared successful proposal to City of Peoria for waste, recycling and landscape waste collection services. Both proposals included preparation of summary qualifications information, identification of the scope of work to be provided, economic analysis to establish proposal pricing, and identification of the elements of project implementation.
- *LaSalle County, Illinois*
Project manager for development of 20-year update to the County solid waste management plan. Developed updated estimates of waste generation and performed waste flows analysis to assess the waste and diversion practices in place. Evaluated disposal and diversion alternatives and assessed existing ordinances for applicability to the County's waste stream. Facilitated meetings of the Citizens' Advisory Committee to secure stakeholder input during the plan development process.
- *City of Doral, Florida*
Assisted in the review of proposed amendments to the Town of Medley's zoning ordinance governing solid waste facilities. Assisted in preparation of a white paper to educate planning staff in Doral about the different types of facilities, what such facilities look like, the pros and cons of different types of facilities, and the potential issues that have to be addressed in the development and operation of such facilities. Based on this review work, the City of Doral made several suggestions to the Town of Medley.
- *City of Chicago Department of Environment*
Completed a feasibility evaluation of converting a former concrete grain silo complex to an anaerobic digestion facility. Evaluated technology vendor information to assess technical and economic feasibility of AD technology and applicability to the existing structure. Managed the structural investigation of the silos and equipment evaluation completed by subcontractors. Assisted in the preparation of the final report presented to CDOE.
- *Groot Industries / Lake Transfer Station*
Project planner responsible for developing needs assessment for proposed 750 tons per day transfer station, including conducting research into waste disposal quantities and trends and performing analysis of transportation costs. Also prepared life-cycle assessment to estimate annual fuel consumption and emissions of nitrogen oxides, sulfur oxides, and carbon dioxide, demonstrating the transfer station will result in a superior system to the current system.
- *Iowa Department of Natural Resources*
Developed cost model to represent costs of constructing and operating a transfer station to handle an average 30 tons per day. Developed presentation materials for outreach workshops with county representatives and engineering consultants to identify waste handling options as local landfills close.
- *Ministry of Environment, Bahamas / SABL, Ltd.*
Prepared training materials to educate employees of the Department of Environmental Health Services on solid waste topics including recycling, transfer stations, and finance/administration. Conducted classroom training for recycling basics session.

- Reliable Materials / Reliable Asphalt Corporation
Prepared grant applications to Illinois Department of Commerce and Economic Opportunity for two proposed multi-million dollar green industry projects. Grant funding is being provided by the state's Green Industry Business Development Program through the use of American Recovery and Reinvestment Act (ARRA) funds.
- Peoria Disposal Company Grant Assistance
Prepared grant applications to Illinois Department of Commerce and Economic Opportunity under its Traditional Recyclables grant program to purchase wheeled recycling carts to enhance existing curbside collection programs in two communities.
- City of Ridgecrest, California
Assisted in feasibility assessment of a material recovery facility (MRF). Researched MRF diversion rates in California and nationwide and prepared cost estimates for facility design and operations options. Assisted in completion of the final feasibility report.
- Chicago Composts, LLC
Prepared successful grant application to Illinois Department of Commerce and Economic Opportunity to fund feasibility assessment for a proposed food waste composting facility. Assisted in the development of a business plan for the proposed facility.
- City of Philadelphia Streets Department
Project manager for evaluation of waste collection franchise systems for the City's commercial waste stream. Evaluation consists of researching franchise systems in place in other communities, assessing current local waste and recycling collection conditions, and developing implementation tools and estimated economic impacts for the City's selected system.
- City of Orlando
Project manager responsible for assisting the City to evaluate and review waste conversion technologies and procure a technology vendor to design, build, own and operate a conversion facility to provide a source of renewable energy and reduce landfill disposal quantities. Completed a market assessment to characterize waste quantities and composition within the City of Orlando and Orange County that could be directed to a conversion facility. Assisted the City to draft procurement materials to solicit a facility developer in the future.
- Winnebago Landfill
Prepared needs assessment for proposed expansion of the Winnebago Landfill near Rockford, Illinois. Analyzed trends in waste generation, disposal capacity, and the regional waste market. Assessed economic impact of the proposed expansion and neighboring environmental campus proposed to include recycling, processing, and waste-to-energy operations. Prepared report of consistency with the Winnebago County Solid Waste Management Plan. Provided expert witness testimony as part of the local siting approval process.
- Quad Cities Landfill
Prepared needs assessment for proposed expansion of the Quad Cities Landfill near Milan, Illinois. Analyzed trends in waste generation, disposal capacity, and the regional waste market. Performed economic assessment of landfill development, including impact of host fees, employment and wages, local purchases and overall impact of project on local economy. Prepared report of consistency with the Rock Island County Solid Waste Management Plan.
- Fox Moraine Landfill
Assisted in preparation of needs assessment for proposed new landfill in Yorkville, Illinois. Analyzed trends in waste generation, disposal capacity, and the regional waste market.
- Indian Creek Landfill No. 2
Prepared needs assessment for proposed expansion of the Indian Creek Landfill No. 2 near Hopedale, Illinois. Analyzed trends in waste generation, disposal capacity, and the regional waste market. Performed economic assessment of landfill development, including impact of host fees, employment and wages, local purchases and overall impact of project on local economy. Prepared report of consistency with the Tazewell County Solid Waste Management Plan.

- City of Rochelle, Illinois
Prepared needs assessment for proposed expansion of the Rochelle Municipal Landfill #2 in the City of Rochelle, Illinois. Analyzed trends in waste generation, disposal capacity, and the regional waste market.
- Newton County Landfill
Performed economic analysis of host fees and prepared projections of the economic impact of the landfill on the local economy. Prepared report documenting compliance with requirements for special use criteria to allow expansion of the existing Newton County Landfill in Newton County, Indiana. Assisted in preparation for hearings before the Board of Zoning Appeals for Newton County for the landfill expansion. Prepared demonstration of need report for three state permit applications requesting approval of expansion.
- Lake County C&D Landfill
Prepared demonstration of need report for state permit application requesting approval of the expansion of a construction and demolition debris landfill.
- Livingston Landfill
Prepared needs assessment for proposed expansion of the Livingston Landfill in Pontiac, Illinois. Analyzed trends in waste generation, disposal capacity, and the regional waste market. Performed economic assessment of landfill development, including impact of host fees, employment and wages, local purchases and overall impact of project on local economy. Prepared report of consistency with the Livingston County Solid Waste Management Plan.
- Lee County Landfill
Prepared needs assessment for proposed expansion of the Lee County Landfill in Dixon, Illinois. Analyzed trends in waste generation, disposal capacity, and the regional waste market. Performed economic assessment of landfill development, including impact of host fees, employment and wages, local purchases and overall impact of project on local economy. Prepared report of consistency with the Lee County Solid Waste Management Plan. Provided expert witness testimony.
- Streator Area Landfill #3
Assisted in preparation of application for local siting approval for proposed expansion. Performed economic assessment of landfill development, including impact of host fees, employment and wages, local purchases and overall impact of project on local economy.
- Kankakee Regional Landfill
Prepared needs assessment for proposed new landfill in Kankakee, Illinois. Prepared report of consistency with the Kankakee County Solid Waste Management Plan. Also assisted in preparation of other aspects of the application for local siting approval, including conceptual design, closure/post closure care plan, construction quality assurance, and health and safety plan.
- Northlake Transfer
Project manager responsible for daily oversight and management of preparation of application for local siting approval for a proposed transfer station in Northlake, Illinois. Prepared needs assessment, including conducting research into waste disposal trends and performing analysis of transportation costs. Prepared report of consistency with the Cook County Solid Waste Management Plan. Provided expert witness testimony.
- Virginia Road Transfer Facility
Prepared needs assessment for a proposed transfer station in Crystal Lake, Illinois. Conducted research into waste disposal trends and analysis of transportation costs. Prepared report of consistency with the McHenry County Solid Waste Management Plan.
- Bluff City Transfer Facility
Prepared needs assessment for a proposed transfer station in Elgin, Illinois. Conducted research into waste disposal trends and analysis of transportation costs. Prepared report of consistency with the Cook County Solid Waste Management Plan. Provided expert witness testimony.

- Village of Carol Stream, Illinois
Reviewed needs assessment and plan consistency reports for proposed Fullerton Transfer Station.
- City of Freeport, Illinois
Performed a pre-file review of a proposed transfer station in the City. Also prepared needs assessment for a proposed transfer station, including research into waste disposal trends and analysis of transportation costs. Prepared report of consistency with the Stephenson County Solid Waste Management Plan. Provided expert witness testimony.
- Spaulding Road Transfer Station
Prepared needs assessment for a proposed transfer station, including research into waste disposal trends and analysis of transportation costs. Prepared report of consistency with the Cook County Solid Waste Management Plan.
- Greenwood Transfer Facility
Prepared needs assessment for a proposed transfer station, including research into waste disposal trends and analysis of transportation costs. Assisted in supervising development of application for local siting approval. Prepared report of consistency with the West Cook County Solid Waste Management Plan. Assisted in preparation of IEPA development permit application. Prepared IEPA operating permit application.
- West DuPage Recycling and Transfer Facility
Prepared needs assessment for a proposed transfer station, including research into waste disposal trends and analysis of transportation costs. Prepared report of consistency with the DuPage County Solid Waste Management Plan.
- Solid Waste Agency of Northern Cook County (SWANCC)
Assisted SWANCC to conduct a transfer station market analysis for the northern Cook County region. The analysis considered waste disposal tonnages, competing transfer stations, and the patterns of waste handling in the region. Information collected for the analysis included historical facility throughputs for competing transfer stations, residential collection contracts, and municipal hauler licenses. Disposal fees at competing facilities were evaluated, as well as contract disposal rates for other public agencies.
- Calhoun County, Michigan
Developed a strategic plan to provide guidance to the solid waste department and Solid Waste Management Planning Committee to implement waste reduction and diversion programs. Plan development included input from County Commissioners, Planning Committee members, and local stakeholders through a series of public meetings.
- Wexford County, Michigan
Assisted in conducting a benchmarking review of the Wexford County Landfill. Conducted a market analysis to evaluate options for increasing incoming waste flows and minimizing tipping fees. Reviewed current business plan to determine the tipping fee needed for landfill operations to break even under several market scenarios. Prepared an amendment to the current solid waste plan to allow importation of waste from other counties. Conducting public meetings to present the plan amendment.
- Kern County, California
Assisted in evaluating feasibility of transfer station development under several scenarios in metro Bakersfield area. Developed capital and operating costs, conducted centroid analyses, and assisted in conducting an economic evaluation of transportation costs for the transfer station scenarios compared to existing conditions. Also assisted in evaluating feasibility of developing a Dirty-MRF at an existing rural transfer station. Developed capital and operating costs, assisted in comparing cost of Dirty-MRF to other diversion programs in place, and assisted in identifying other alternatives to increase waste diversion.
- Los Alamos County, New Mexico
Assisted in the preparation of Los Alamos County's solid waste management plan, including review and analysis of historical disposal and recycling data, development of capital and operating costs for various disposal technologies and development of diversion and disposal recommendations. Prepared presentation materials for community meetings. Assisted in the preparation of a permit application to New Mexico Environment Department for development of a municipal solid waste transfer station.

- Ohio EPA
Assisted in the preparation of a solid waste management plan update for the Stark-Tuscarawas-Wayne Solid Waste Management District. Reviewed and summarized residential, commercial and industrial waste generation and diversion data. Prepared projections of future waste diversion.
- Boone County, Iowa
Performed an analysis of municipal solid waste composting and construction and demolition debris processing as waste diversion techniques. Also performed an analysis of converting from a source-separated curbside recycling program to a two-stream curbside recycling program. Developed capital and operating cost projections based on extensive research of operating facilities and programs.
- Lucent Technologies
Performed a waste audit of seven Lucent office buildings to characterize waste stream composition in a continuing effort to promote and improve a company recycling program.
- Will County Land Use
Assisted in preparation of economic evaluation and development of financial model for a planned landfill facility.
- West Cook County Solid Waste Agency
Assisted in preparation of benchmark study and evaluation of proposals for the Agency's Regional Disposal Project, a cooperative municipal effort to secure long-term transfer, transport, and disposal capacity. Assisted in preparation of five-year update to solid waste management plan. Performed environmental landfill audit of Tazewell Recycling and Disposal Facility.
- Groot Industries/Former Alcoa Extrusions Facility
Assisted client to review grant programs and other sources of financing for redevelopment project. Assisted in preparation of Illinois Brownfields Redevelopment Loan Program application. Researched and compiled financial and other operating data for proposed recycling facility.
- Allied Waste Transportation, Inc./City of Chicago Material Recycling and Recovery Facilities (MRRFs)
Assisted Allied Waste in preparing a proposal to the City of Chicago to operate the City's three MRRFs. Prepared IEPA and City of Chicago Department of Environment permit applications for all facilities. Prepared operating and safety plans for all facilities. Project manager responsible for preparation of Statement of Qualifications submitted to City of Chicago for long-term lease and operation of the facilities. Participated in multi-department meetings with City of Chicago to negotiate lease/operating terms.
- Loop Transfer / Laflin
Prepared City of Chicago Department of Environment application for permit renewal and modification to incorporate state-of-the-art construction and demolition debris processing system at an existing 2,300 tons per day transfer station.
- Planet Recovery Systems Transfer Station
Prepared IEPA permit application for expansion of the facility and modification in operations. Also prepared and submitted annual applications to the City of Chicago Department of Environment for permit renewal.
- Midtown Transfer Station
Prepared and submitted IEPA permit application for modifications to the existing facility and operations. Also prepared and submitted a short form application to the City of Chicago Department of Environment for permit renewal.
- 64th Street Transfer Station
Prepared IEPA permit application for a change in the operations of the facility. Also prepared and submitted annual applications to the City of Chicago Department of Environment for permit renewal.
- City Waste Transfer Station
Prepared and submitted application for permit renewal to the City of Chicago Department of Environment, increasing daily throughput of the facility by 50 percent.

- **Calumet Transfer Station**
Prepared and submitted application for permit renewal to the City of Chicago Department of Environment, increasing daily throughput of the facility by 50 percent and authorizing 24-hour operation.
- **Shred-All Transfer Station**
Prepared and submitted application for permit renewal to the City of Chicago Department of Environment.

Professional Affiliations

- Solid Waste Association of North America member
- SWANA, Land of Lincoln Chapter, President (2018, 2010), Vice President (2016-2017, 2009), Treasurer (2008), Secretary (2015, 2007), Past-President (2011-2012), At-Large Director (2013-2014, 2005-2006)

Publications and Presentations

- "An Analysis of the U.S. CRT 'Glass Tsunami' Recycling Challenge", Seibert, C., Waste Advantage magazine, December 2014.
- "The Importance of Measuring Waste and Recycling Quantities," Seibert, C., Illinois Recycling and Resource Management Conference, 2012.
- "Recycling Works: A Toolkit for Reducing Waste in the Workplace," Seibert, C. and Allen, M., Illinois Recycling and Solid Waste Management Conference and SWANA Land of Lincoln Chapter Fall Workshop, 2010.
- "Waste Conversion Technology Procurement," Seibert, C., SWANA Land of Lincoln Chapter Fall Workshop, 2009.
- "Turning Waste Into Renewable Energy In Orlando, Florida: A Waste Conversion Technology Procurement Case Study," Oyler, A. and Seibert, C., WASTECON, 2008.
- "Implications of FAA Advisory Guidelines on Transfer Station Development," Seibert, C., Allen, D., and Willis, W., The 22nd International Conference on Solid Waste Technology and Management, 2007.

Phillip P. Kowalski

Principal Solid Waste Planner

Professional Qualifications

As Senior Planner, Mr. Kowalski is responsible for conducting regulatory, statistical and economic analyses as part of a multi-discipline engineering project team. He prepares permit applications, solid waste needs assessments, and solid waste management plans. Mr. Kowalski also performs economic feasibility studies and develops project cost estimates, and develops business plans and marketing plans for waste facilities. Mr. Kowalski also assists public and private clients on procurement of solid waste services.

Education

M.B.A., Graduate School of Business, University of Chicago
B.A., Physics, University of Chicago

Key Experience

City of Ann Arbor, Michigan. Project manager for review of operating terms and conditions of the City's prior MRF operating agreement. Services included review of historical operating and cost data; review of contracts for other MRF operations to identify standard terms and conditions for facility operation, maintenance, and revenue sharing; and preparation of a final summary report identifying recommendations for contract terms in a future operating contract. Currently assisting the City to prepare procurement documents for MRF operations and waste transfer and disposal services.

Kuusakoski Recycling/Peoria Disposal Company. Co-author of CRT White Paper to quantify and analyze the quantities of CRT devices generated and the available processing capacity to manage CRT glass. Work included developing nationwide estimates of CRT devices to be recovered and managed on an annual basis; summarizing state-level legislation and impacts on recovery of CRTs; quantifying existing end-use processing capacity available to manage CRTs; and assessing economics of existing processing options. Prepared a CRT White Paper Update to further assess market conditions and developments in CRT management during the one-year period following the initial CRT White Paper. Assisted Kuusakoski and PDC to develop a petition to the Basel Action Network to recognize retrievable storage of CRT glass as an allowed management method under the e-Stewards certification process.

West Cook County Solid Waste Agency. Prime consultant to consortium of 36 communities representing over 500,000 residents. Managed comprehensive feasibility analysis of alternate waste management technologies, including wet/dry collection systems and intensive recycling methods. Evaluation criteria included technical feasibility, applicability to the waste stream, economics, financing requirements, facility requirements, siting and permitting requirements, and health and safety impacts. Assisted Agency in implementing Regional Disposal Project, a cooperative municipal effort to secure interim transfer, transport, and disposal capacity. Prepared Request for Qualifications and Request for Proposals. Prepared marketing materials to secure participation by member communities of the Agency. Met with Agency staff and municipal officials to develop and implement Project strategy. Prepared benchmark evaluation of RDP to assess effectiveness of the program after 10 years of operation.

Solid Waste Agency of Northern Cook County (SWANCC). Prepared solid waste needs assessment and solid waste management plan for consortium of 23 municipalities representing 700,000 residents. Prepared elements of local siting and IEPA permit applications relating to waste quantities, facility need, and facility size requirements for landfill facility and three transfer stations. Assisted in managing project team of engineers, environmental scientists, attorneys, land use planners, and real estate appraisers to prepare 2000+ page 404 permit application to the U.S. Army Corps of Engineers. Performed economic analysis to assess competitiveness of (SWANCC) waste system with other disposal alternatives. Developed cost estimates and waste projections used to secure financing. Assisted the Agency to prepare a 20-Year Update to its Solid Waste Management Plan. Advised SWANCC during procurement of operations, transport and disposal services for the Glenview Transfer Station; new contract will provide approximately \$2.5 million in annual savings for the member communities.

Solid Waste Agency of Lake County (SWALCO). Prepared updated estimates of waste generation and inventory of solid waste handling methods for consortium of 43 communities representing 700,000 residents as part of the 20-Year Update to SWALCO's solid waste management plan.

Pescadito Environmental Resource Center, Texas. Performed comprehensive statewide assessment of the solid waste market in Texas. Researched and analyzed demographic trends, solid waste disposal quantities, landfill capacity, transfer station tonnages, and ownership of landfills (by company). Researched solid waste disposal contracts to evaluate market pricing, and analyzed long-haul trucking and rail transportation costs. Researched regulatory requirements governing waste shipments between the U.S and Mexico.

Orange County Utilities, Florida. Managed a Solid Waste System study to evaluate operational efficiencies and identify potential cost savings for a publicly-owned waste system. The system consists of two landfills, two transfer stations, a MRF, a composting facility, and ancillary facilities and programs. The study included a market assessment to benchmark the cost performance of the system against other public and private solid waste systems, a regional assessment of waste quantities, an operations review, and a financial review. Based on the recommendations in the study, the County is projected to reduce its tipping fees by 16-23 percent versus current tipping fees for residential and commercial waste, resulting in significant cost savings for customers.

City of Orlando, Florida. Project planner on multi-discipline team assisting the City to evaluate and review waste conversion technologies and procure a technology vendor to design, build, own and operate a conversion facility to provide a source of renewable energy and reduce landfill disposal quantities. Assisted with a market assessment to characterize waste quantities and composition within the City of Orlando and Orange County that could be directed to a conversion facility. Assisted the City to draft procurement materials to solicit a facility developer in the future.

City of Doral, Florida. Assisted the City of Doral to review proposed amendments to the zoning ordinance of a neighboring community (Town of Medley) governing solid waste facilities. Prepared a white paper to educate planning staff in Doral about the different types of facilities, what such facilities look like, the pros and cons of different types of facilities, and the potential issues that have to be addressed in the development and operation of such facilities. Assisted the City to review the proposed zoning amendments and develop recommendations to submit to the Town of Medley for inclusion in the new ordinance. Based on this review work, the City of Doral made several suggestions to the Town of Medley. Also assisted the City to evaluate a proposal from a not-for-profit organization to develop an in-vessel composting facility for food waste and yard waste.

Kern County Waste Management Department, California. Managed a transfer station feasibility evaluation for Kern County and the City of Bakersfield to assess the economic viability and air quality impacts of transfer stations to serve the metro-Bakersfield area. The purpose of the study was to develop conceptual plans for transfer stations under a number of development scenarios, to estimate capital and operating costs for the transfer stations, to perform an economic comparison of transfer haul versus the existing system of direct haul to landfills, and to model the improvements to air quality from transfer haul.

Kern County Waste Management Department, California. Managed a study to evaluate the feasibility of adding a Dirty-MRF operation to an existing transfer station facility. Performed research into the diversion rates achieved by Dirty-MRF facilities and other design parameters. Managed design of conceptual Dirty-MRF facility taking into account waste composition and waste throughput. Prepared capital and operating cost estimates. Developed benchmark cost estimates of existing diversion programs for comparison to the costs of the Dirty-MRF. Evaluated operational enhancements to increase diversion at the existing transfer station as alternatives to the Dirty-MRF.

Los Alamos County, New Mexico. Managed multi-discipline project team to provide comprehensive solid waste consulting services to Los Alamos County. Projects have included preparing a solid waste management plan, performing feasibility evaluations of potential landfill and transfer station sites, preparing a conceptual design and permit application for a transfer station, preparing a closure plan for an existing landfill, assisting with the final architectural and engineering plans for the transfer station, and assisting with the procurement of solid waste transport and disposal services. Managed study to evaluate alternative landfill cover systems that would facilitate development of a solar-energy end use project on the closed landfill.

City of Spokane Valley, Washington. Assisted the City of Spokane Valley to evaluate waste transfer, recycling and disposal options and to procure transfer and disposal services. A limited timeframe was available to secure a contract for transfer and disposal services, resulting in the City opting to proceed directly with negotiations in lieu of conducting an RFP process. Developed financial models to assess potential cost impacts to the City of various options related to the use of alternative transfer station options. Upon commencement of negotiations, the models provided the basis for negotiating reduced pricing from the private contractor. As a result of the negotiation process, the City secured savings of \$12 per ton compared to its current services.

City of Airway Heights, Washington. Assisted the City of Airway Heights to evaluate long-term waste disposal options, including transfer haul to a regional landfill and direct haul to a local waste-to-energy facility, as well as recycling services available under each option. Following this evaluation, assisted the City to negotiate a disposal agreement with rates that were 41 percent lower than the existing disposal costs. Also assisted the City to negotiate a solid waste collection agreement. The collection agreement includes waste and recycling collection, and will incorporate green waste collection for the first time as well.

Essex Windsor Solid Waste Authority, Ontario, Canada. Managed comprehensive feasibility analysis comparing solid waste baling with conventional landfilling. Technical feasibility report examined issues of compaction, leachate and gas generation, equipment reliability, personnel needs, and equipment requirements. Economic feasibility reports examined unit costs (e.g. cost per ton) of baling as well as the life cycle costs of developing a regional landfill as a balefill versus a conventional landfill. Met regularly with a stakeholders group to review the study and develop public consensus as the study was prepared.

East Central Solid Waste Commission, Minnesota. Assisted five-county group representing approximately 140,000 residents to prepare strategic business plan to address future disposal alternatives. Researched data on waste generation and management trends in the five-county region and Minnesota. Developed financial projections of disposal alternatives. Performed market research into competitive conditions in east central region. Interviewed numerous stakeholders including elected officials, county and municipal staff, haulers, regulatory agencies, and local citizens to gain local perspective on alternatives. Assisted Commission staff with contract issues and Certificate of Need request.

Boone County, Iowa. Managed a feasibility analysis of construction/demolition waste recycling opportunities and municipal waste composting technologies.

West Central Municipal Conference. Assisted Conference of 36 communities to implement a Brownfields Pilot Project. Supervised development of a Request for Statements of Developer Interest to solicit property owners to participate in the Pilot Project. Developed marketing materials to publicize the Project.

Grundy County. Designed statistical weighing program to determine household quantities generated in this rural county of 36,000. Developed computer models to forecast waste quantities. Analyzed impacts of demographic trends in the area on waste quantities. Co-authored Grundy County solid waste management plan, focusing on recycling and the economics of the recommended plan.

Lee County. Prepared solid waste management plan for County of 36,000. Presented technical and economic information during monthly citizen advisory committee meetings.

Ogle County. Prepared solid waste needs assessment for County of 50,000. Developed and implemented a statistical based weighing program to determine the composition of residential and commercial waste in the County. Prepared elements of the County's solid waste management plan, focusing on recycling and plan economics.

Will County. Conducted study to determine residential, commercial, and industrial waste quantities generated by the 350,000 residents of the County. Developed models to forecast waste quantities. Prepared elements of the County's solid waste management plan, including an economic analysis of landfill alternatives.

Progressive Waste Solutions, Louisiana. Lead planner assisting private waste company to prepare a successful proposal for development and operation of Phase 4A of the Jefferson Parish Landfill. Proposal included development of qualifications and demonstration of experience in similar projects in Louisiana, as well as knowledge of Louisiana regulations. Identified the scope of services to be performed and developed a comprehensive transition plan to facilitate the shift in operations from the current operator to Progressive.

Peoria Disposal Company. Lead planner assisting private waste company to prepare a successful proposal to develop and operate an expansion to the Peoria City/County Landfill. Also assisted company to prepare successful proposal to City of Peoria for waste, recycling and landscape waste collection services. Both proposals included preparation of summary qualifications information, identification of the scope of work to be provided, economic analysis to establish proposal pricing, and identification of the elements of project implementation.

City of Freeport. Assisted City to procure operator for new transfer station. Provided consulting services during development of procurement documents including lease agreement, host agreement and hauling agreement. Conducted pre-proposal meeting with vendors.

Bridgewater Resources, New Jersey. Conducted analysis of solid waste market in New Jersey for financial restructuring of transfer station. Researched waste disposal quantities in marketplace. Analyzed available solid waste transfer and disposal capacity at competing facilities. Reviewed proforma financial projections.

Newton County Landfill, Indiana. Prepared evaluation of economic impacts of landfill on local economy including host fees, taxes, wages and employment, and landfill purchases of supplies and services. Assisted client to evaluate economic development opportunities in connection with beneficial reuse of landfill gas. Researched economic development assistance programs available through local, state and federal agencies. Developed media presentation materials to explain landfill gas management technologies and case studies of landfill gas recovery projects.

Brickyard Disposal and Recycling. Prepared proforma financial analysis of landfill expansion. Supervised preparation of earthwork and volume calculations. Developed initial construction cost estimates, including demolition of existing structures, relocation of utilities, and mass earthwork. Prepared projectional income and cash flow statements for different tonnage throughput scenarios.

Allied Waste Industries. Prepared proforma financial analysis of existing landfill and expansion. Supervised preparation of earthwork and volume calculations. Developed initial construction cost estimates, including mass earthwork. Prepared projectional income and cash flow statements for alternate landfill designs and tonnage throughput scenarios.

LandComp Corporation. Represented private landfill operator during County's evaluation of landfill ownership alternatives. Prepared position reports and presented testimony at public hearings addressing the role of privately-owned landfills in the County. Assisted LandComp in developing proposal submitted during the County's competitive procurement process to select a preferred landfill vendor. Provided expert witness testimony during landfill siting process.

Browning-Ferris Industries. Developed promotional brochure and other graphical materials for a competitive landfill procurement. Developed strategic marketing materials for client's internal use, including market share analysis.

Henry County. Represented County during host agreement negotiations.

Lawrence County. Provided host agreement consulting services to County.

Private Real Estate Developer. Performed cost analysis of existing transfer station operation as part of property negotiation. Developed proforma income statements and performed discounted cash flow analysis.

Douglas County. Prepared study to assess the economic impact, in terms of increased transportation costs, of the closure of the only landfill in the County. Developed waste forecasts and cost projections of transporting the County's waste to neighboring landfill facilities.

Ministry of Environment, Bahamas / SABL, Ltd. Managed project team that is assisting a Bahamian consulting company to provide solid waste training services to the Ministry of Environment of the Government of the Bahamas. Prepared training materials and conducted class-room training sessions for a comprehensive range of solid waste disciplines including transfer stations, recycling, composting, landfill gas and leachate management, public education, and finance/administration.

Village of Skokie. Prepared assessment of funding opportunities for Brownfields redevelopment.

City of Chicago, Dept. of Environment. Coordinated the development of a comprehensive environmental compliance system, including drafting of rules and regulations for different types of solid waste facilities, preparation of recycling education materials, and development of an inspection training manual.

Private Industry Council of Northern Cook County. Developed marketing plan for a commercial recycling program implemented by a not-for-profit institution. Analyzed available recyclable material quantities, potential sources of competition, and the competitive strengths and weaknesses of the institution as a participant in the recycling industry. Recommended implementation strategies for securing materials from commercial establishments.

Chicago Housing Authority. Developed business plan for pilot buy-back recycling program sponsored by the (CHA). Assessed the amount of recyclable material recoverable from CHA developments, and prepared forecasts of the costs and revenues of operating the program on a pilot as well as a CHA-wide basis. Developed and implemented waste sorting program to determine the quantities of recyclable material.

Northern Illinois University. Supervised drafting of bid specifications for solid waste collection, recycling, and disposal services for public university with student enrollment of 25,000. Performed review of vendor bids.

City of Evanston MRF. Prepared economic feasibility study and business plan for 10,000 square foot, \$1.2 million recycling facility. Developed forecasts of material prices, facility revenues and expenses. Recommended operating procedures to minimize risk from volatile material prices. Obtained \$50,000 in grant financing for the City from the Illinois Department of Energy and Natural Resources.

Winnebago Reclamation Service (Winnebago Landfill). Assisted in preparing needs assessment and plan consistency reports for application for local sitting approval for a landfill expansion.

Peoria City/County Landfill, Inc. (Peoria City/County Landfill). Prepared needs assessment and plan consistency reports for application for local sitting approval for a landfill expansion. Provided expert witness testimony.

Veolia Environmental Services (Zion Landfill). Prepared needs assessment and plan consistency reports for application for local sitting approval for a landfill expansion. Provided expert witness testimony.

Fox Moraine LLC (Fox Moraine Landfill). Prepared needs assessment and plan consistency reports for application for local sitting approval for a new landfill. Provided expert witness testimony.

Kankakee Regional Landfill, LLC (Kankakee Regional Landfill). Prepared needs assessment report for application for local sitting approval. Provided expert witness testimony.

Allied Waste Industries (Sarona Landfill). Provided peer review assistance to client for landfill expansion. Reviewed needs analysis included in landfill permit application.

Allied Waste Industries (Lee County Landfill). Assisted in preparing needs assessment and plan consistency reports for application for local sitting approval for a landfill expansion.

Allied Waste Industries (Livingston Landfill). Prepared needs assessment and plan consistency reports for application for local sitting approval for a landfill expansion. Provided expert witness testimony.

Allied Waste Industries (EnvironTech Landfill). Prepared needs assessment and plan consistency reports for application for local sitting approval for a landfill expansion. Provided expert witness testimony.

Allied Waste Industries (Streator Landfill). Prepared needs assessment and plan consistency reports for application for local sitting approval for a landfill expansion. Provided expert witness testimony.

Allied Waste Industries (CC Landfill). Prepared needs assessment report for application for local sitting approval for a landfill expansion. Provided expert witness testimony.

Browning Ferris Industries (Orchard Hills Landfill). Prepared needs assessment and plan consistency reports for application for local siting approval for a landfill expansion. Provided expert witness testimony.

Allied Waste Industries (Northlake Transfer Station). Assisted in preparing needs assessment and plan consistency reports for application for local siting approval for a 1,500 ton per day transfer station.

Waste Management of Illinois (Bluff City Transfer Station). Assisted in preparing needs assessment and plan consistency reports for application for local siting approval for a 2,000 ton per day transfer station.

Waste Management of Illinois (Crystal Lake Transfer Station). Assisted in preparing needs assessment and plan consistency reports for application for local siting approval for a 1,000 ton per day transfer station.

Roy Strom Refuse Removal Services (Greenwood Transfer Station). Prepared needs assessment and plan consistency reports for application for local siting approval for a 1,000 ton per day transfer station. Provided expert witness testimony.

West DuPage Recycling and Disposal (West DuPage Transfer Station). Prepared needs assessment and plan consistency reports for application for local siting approval for a 1,000 ton per day transfer station. Provided expert witness testimony.

Allied Waste Industries (Chicago Transfer Stations). Prepared zoning applications and permit applications for multiple transfer stations in the City of Chicago.

Browning Ferris Industries (DuKane Transfer Station). Prepared needs assessment and plan consistency reports for application for local siting approval for a 1,500 tpd transfer station. Provided expert witness testimony.

Speedway Recycling & Disposal (Ellis Street Transfer Station). Prepared needs assessment and plan consistency reports for application for local siting approval for a 500 tpd transfer station. Provided expert witness testimony.

Norton Environmental (Wood River Transfer/Recycling Facility). Prepared needs assessment for siting application for mixed waste processing facility and transfer station. Performed economic assessment of mixed waste versus source separated recycling.

Groot Industries. Prepared variance and special use zoning application for vehicle maintenance and container storage facility.

APPENDIX C

SAMPLE CERTIFICATES OF INSURANCE



CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

6/30/2020

6/26/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Lockton Companies 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000	CONTACT NAME:	FAX (A/C, No):	
	PHONE (A/C, No, Ext):	E-MAIL ADDRESS:	
INSURED 1430625 APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC A SUBSIDIARY OF APTIM HOLDING CORP. 4171 ESSEN LANE BATON ROUGE LA 70809	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A: Greenwich Insurance Company		22322
	INSURER B: XL Specialty Insurance Company		37885
	INSURER C:		
	INSURER D:		
	INSURER E:		
INSURER F:			

COVERAGES ***CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL SUBR INSD WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
A	<input checked="" type="checkbox"/> COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input checked="" type="checkbox"/> OCCUR <input checked="" type="checkbox"/> BROAD FORM PD <input checked="" type="checkbox"/> CONT.LIAB & XCU GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input checked="" type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC OTHER:		CGD7409602	6/30/2019	6/30/2020	EACH OCCURRENCE \$ 2,000,000 DAMAGE TO RENTED PREMISES (Ea occurrence) \$ 1,000,000 MED EXP (Any one person) \$ 10,000 PERSONAL & ADV INJURY \$ 2,000,000 GENERAL AGGREGATE \$ 4,000,000 PRODUCTS - COMP/OP AGG \$ 4,000,000 \$
A	<input checked="" type="checkbox"/> AUTOMOBILE LIABILITY <input checked="" type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input checked="" type="checkbox"/> HIRED AUTOS ONLY <input checked="" type="checkbox"/> NON-OWNED AUTOS ONLY		CAD7409603	6/30/2019	6/30/2020	COMBINED SINGLE LIMIT (Ea accident) \$ 2,000,000 BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX \$ XXXXXXXX
	<input type="checkbox"/> UMBRELLA LIAB <input type="checkbox"/> OCCUR <input type="checkbox"/> EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$		NOT APPLICABLE			EACH OCCURRENCE \$ XXXXXXXX AGGREGATE \$ XXXXXXXX \$ XXXXXXXX
B B B	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below	Y/N <input checked="" type="checkbox"/> N	CWD7409600 (AOS) CWR7409601 (WI) INCLUDES STOP GAP	6/30/2019 6/30/2019 6/30/2019	6/30/2020 6/30/2020 6/30/2020	<input checked="" type="checkbox"/> PER STATUTE <input type="checkbox"/> OTH-ER E.L. EACH ACCIDENT \$ 1,000,000 E.L. DISEASE - EA EMPLOYEE \$ 1,000,000 E.L. DISEASE - POLICY LIMIT \$ 1,000,000

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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CERTIFICATE OF LIABILITY INSURANCE

DATE (MM/DD/YYYY)

6/30/2020

6/26/2019

THIS CERTIFICATE IS ISSUED AS A MATTER OF INFORMATION ONLY AND CONFERS NO RIGHTS UPON THE CERTIFICATE HOLDER. THIS CERTIFICATE DOES NOT AFFIRMATIVELY OR NEGATIVELY AMEND, EXTEND OR ALTER THE COVERAGE AFFORDED BY THE POLICIES BELOW. THIS CERTIFICATE OF INSURANCE DOES NOT CONSTITUTE A CONTRACT BETWEEN THE ISSUING INSURER(S), AUTHORIZED REPRESENTATIVE OR PRODUCER, AND THE CERTIFICATE HOLDER.

IMPORTANT: If the certificate holder is an **ADDITIONAL INSURED**, the policy(ies) must have **ADDITIONAL INSURED** provisions or be endorsed. If **SUBROGATION IS WAIVED**, subject to the terms and conditions of the policy, certain policies may require an endorsement. A statement on this certificate does not confer rights to the certificate holder in lieu of such endorsement(s).

PRODUCER Lockton Companies 444 W. 47th Street, Suite 900 Kansas City MO 64112-1906 (816) 960-9000	CONTACT NAME:	FAX (A/C, No):	
	PHONE (A/C, No, Ext):	E-MAIL ADDRESS:	
INSURED 1429034 APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC A SUBSIDIARY OF APTIM HOLDING CORP. 4171 ESSEN LANE BATON ROUGE LA 70809	INSURER(S) AFFORDING COVERAGE		NAIC #
	INSURER A : Indian Harbor Insurance Company		36940
	INSURER B :		
	INSURER C :		
	INSURER D :		
	INSURER E :		
INSURER F :			

COVERAGES ***CERTIFICATE NUMBER:****REVISION NUMBER:**

THIS IS TO CERTIFY THAT THE POLICIES OF INSURANCE LISTED BELOW HAVE BEEN ISSUED TO THE INSURED NAMED ABOVE FOR THE POLICY PERIOD INDICATED. NOTWITHSTANDING ANY REQUIREMENT, TERM OR CONDITION OF ANY CONTRACT OR OTHER DOCUMENT WITH RESPECT TO WHICH THIS CERTIFICATE MAY BE ISSUED OR MAY PERTAIN, THE INSURANCE AFFORDED BY THE POLICIES DESCRIBED HEREIN IS SUBJECT TO ALL THE TERMS, EXCLUSIONS AND CONDITIONS OF SUCH POLICIES. LIMITS SHOWN MAY HAVE BEEN REDUCED BY PAID CLAIMS.

INSR LTR	TYPE OF INSURANCE	ADDL INSD	SUBR WVD	POLICY NUMBER	POLICY EFF (MM/DD/YYYY)	POLICY EXP (MM/DD/YYYY)	LIMITS
	COMMERCIAL GENERAL LIABILITY <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> OCCUR GEN'L AGGREGATE LIMIT APPLIES PER: <input type="checkbox"/> POLICY <input type="checkbox"/> PRO-JECT <input type="checkbox"/> LOC <input type="checkbox"/> OTHER:			NOT APPLICABLE			EACH OCCURRENCE \$ XXXXXXXX DAMAGE TO RENTED PREMISES (Ea occurrence) \$ XXXXXXXX MED EXP (Any one person) \$ XXXXXXXX PERSONAL & ADV INJURY \$ XXXXXXXX GENERAL AGGREGATE \$ XXXXXXXX PRODUCTS - COMP/OP AGG \$ XXXXXXXX \$
	AUTOMOBILE LIABILITY <input type="checkbox"/> ANY AUTO <input type="checkbox"/> OWNED AUTOS ONLY <input type="checkbox"/> SCHEDULED AUTOS <input type="checkbox"/> HIRED AUTOS ONLY <input type="checkbox"/> NON-OWNED AUTOS ONLY			NOT APPLICABLE			COMBINED SINGLE LIMIT (Ea accident) \$ XXXXXXXX BODILY INJURY (Per person) \$ XXXXXXXX BODILY INJURY (Per accident) \$ XXXXXXXX PROPERTY DAMAGE (Per accident) \$ XXXXXXXX \$ XXXXXXXX
	UMBRELLA LIAB <input type="checkbox"/> OCCUR EXCESS LIAB <input type="checkbox"/> CLAIMS-MADE <input type="checkbox"/> DED <input type="checkbox"/> RETENTION \$			NOT APPLICABLE			EACH OCCURRENCE \$ XXXXXXXX AGGREGATE \$ XXXXXXXX \$ XXXXXXXX
	WORKERS COMPENSATION AND EMPLOYERS' LIABILITY ANY PROPRIETOR/PARTNER/EXECUTIVE OFFICER/MEMBER EXCLUDED? (Mandatory in NH) If yes, describe under DESCRIPTION OF OPERATIONS below Y / N <input type="checkbox"/> N / A			NOT APPLICABLE			PER STATUTE <input type="checkbox"/> OTH-ER <input type="checkbox"/> E.L. EACH ACCIDENT \$ XXXXXXXX E.L. DISEASE - EA EMPLOYEE \$ XXXXXXXX E.L. DISEASE - POLICY LIMIT \$ XXXXXXXX
A	PROFESSIONAL LIABILITY			CEO7446423	6/30/2019	6/30/2020	\$1,000,000 PER OCCURRENCE; \$1,000,000 AGGREGATE

DESCRIPTION OF OPERATIONS / LOCATIONS / VEHICLES (ACORD 101, Additional Remarks Schedule, may be attached if more space is required)

CERTIFICATE HOLDER**CANCELLATION**

SHOULD ANY OF THE ABOVE DESCRIBED POLICIES BE CANCELLED BEFORE THE EXPIRATION DATE THEREOF, NOTICE WILL BE DELIVERED IN ACCORDANCE WITH THE POLICY PROVISIONS.

AUTHORIZED REPRESENTATIVE

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APPENDIX D

PROFESSIONAL SERVICES AGREEMENT

**APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC
PROFESSIONAL SERVICES AGREEMENT
TIME AND MATERIALS BASIS**

1. SERVICES: Aptim Environmental & Infrastructure, LLC ("APTIM") a Louisiana corporation, agrees to perform for the undersigned CLIENT professional environmental, health and safety, consulting and/or analytical services ("Services") described in attached Proposal No. ____ dated _____ and/or as follows:

_____,
all in accord with the following terms and conditions.

2. FEES, INVOICES AND PAYMENTS: The Services will be performed on a time and materials basis, with compensation due for all goods and Services provided by APTIM, computed in accord with currently-in-effect APTIM rates for Time & Material work. APTIM's particular applicable T & M Rate Sheet for the Services will be attached hereto. Invoices will be submitted by APTIM no more frequently than every two weeks, with payment due upon CLIENT'S receipt of invoice. Payment shall be in U.S. Dollars. CLIENT shall be responsible for payment (without deduction or offset from the total invoice amount) of any and all sales, use, value added, gross receipts, franchise and like taxes, and tariffs and duties, and all disposal fees and taxes, levied against APTIM or its employees by any government or taxing authority. A service charge equal to one and one-half percent (1 ½ %) per month, or the maximum rate permitted by law, whichever is less, will be added to all accounts which remain unpaid for more than thirty (30) calendar days beyond the date of the invoice. Should there be any dispute as payments to be made on a percent complete basis to any portion of an invoice, the undisputed portion shall be promptly paid.

In the event APTIM is requested or authorized by CLIENT, or is required by government regulation, subpoena, or other legal process to produce documents or personnel as witnesses with respect to the Services performed under this Agreement, CLIENT agrees, so long as APTIM is not a party to the proceeding in which the information is sought, to reimburse APTIM for its professional time and expenses, as well as the fees and expenses of counsel, incurred in responding to such requests.

3. CLIENT'S COOPERATION: To assist APTIM in performing the Services, CLIENT shall (i) provide APTIM with relevant material, data, and information in its possession pertaining to the specific project or activity, (ii) consult with APTIM when requested, (iii) permit APTIM reasonable access to relevant CLIENT sites, (iv) ensure reasonable cooperation of CLIENT's employees in APTIM's activities, and (v) notify and

report to all regulatory agencies as required by such agencies.

4. CONFIDENTIALITY: In the course of performing Services, to the extent that CLIENT discloses to APTIM, business or technical information that CLIENT clearly marks in writing as confidential or proprietary, APTIM will exercise reasonable efforts to avoid the disclosure of such information to others. Nonetheless, CLIENT shall treat as confidential all information and data furnished to it by APTIM in connection with this Agreement including, but not limited to, APTIM's technology, formulae, procedures, processes, methods, trade secrets, ideas, inventions, and/or computer programs; and CLIENT shall not disclose such information to any third party.

Nothing herein is meant to prevent nor shall be interpreted as preventing either party from disclosing and/or using any information or data (i) when the information or data are actually known to the receiving party before being obtained or derived from the transmitting party, (ii) when information or data are generally available to the public without the receiving party's fault at any time before or after it is acquired from the transmitting party; (iii) where the information or data are obtained or acquired in good faith at any time by the receiving party from a third party who has the same in good faith and who is not under any obligation to the transmitting party in respect thereto; (iv) where a written release is obtained by the receiving party from the transmitting party; (v) three (3) years from the date of receipt of such information; or (vi) when required by process of law; provided, however, upon service of such process, the recipient thereof shall use reasonable efforts to notify the other party and afford it an opportunity to resist such process.

CLIENT shall obtain APTIM's prior consent and cooperation with the formulation and release of any public disclosure in connection with this Agreement or work performed hereunder, before issuing a news release, public announcement, advertisement, or other form of publicity.

5. RIGHT TO USE INFORMATION AND DOCUMENTS: CLIENT may use any final reports of findings, feasibility studies, industrial hygiene and safety, engineering work or other work performed or prepared by APTIM under this Agreement for its internal purposes in connection with the project and/or location indicated in the Services for which such work was prepared, but APTIM reserves all other rights with respect to such documents and all other documents produced in performing the Services. CLIENT shall obtain prior written consent from APTIM for any other use, distribution, or publication of such reports or work

results. Unless otherwise expressly agreed to in writing, nothing in this Agreement shall be interpreted to prevent APTIM from application and use of any information learned by it from the services (subject to the provisions of Section 4). All reports will be delivered subject to APTIM's then current limitations and disclaimers.

6. PATENTS AND CONFIDENTIAL INFORMATION: APTIM shall retain all right and title to all patentable and unpatentable inventions including confidential know-how developed by APTIM hereunder. However, APTIM hereby grants to CLIENT a royalty-free, nonexclusive, nonassignable license as to such inventions and know-how to use the same in any of CLIENT's facilities. Information submitted to CLIENT by APTIM hereunder is not intended nor shall such submission constitute inducement and/or contribution to infringe any patent(s) owned by a third party, and APTIM specifically disclaims any liability therefor.

7. DELAYS AND CHANGES IN CONDITIONS: If APTIM is delayed or otherwise in any way hindered or impacted at any time in performing the Services by (i) an act, failure to act or neglect of CLIENT or CLIENT's employees or any third parties; (ii) changes in the scope of the work; (iii) unforeseen, differing or changed circumstances or conditions including differing site conditions, acts of force majeure (such as fires, floods, riots, and strikes); (iv) changes in government acts or regulations; (v) delay authorized by CLIENT and agreed to by APTIM; or (vi) any other cause beyond the reasonable control of APTIM, **then** 1) the time for completion of the Services shall be extended based upon the impact of the delay, and 2) APTIM shall receive an equitable compensation adjustment.

8. INSURANCE: APTIM is presently protected by Worker's Compensation Insurance as required by applicable law and by General Liability and Automobile Liability Insurance (in the amount of \$1,000,000 combined single limit) for bodily injury and property damage. Insurance certificates will be furnished to Client on request. If the CLIENT requires further insurance coverage, APTIM will endeavor to obtain said coverage, and CLIENT shall pay any extra costs therefor.

9. RISK ALLOCATION - CLIENT hereby agrees that: (1) there are risks inherent to the Services, many of which cannot be ascertained or anticipated prior to or during the course of the Services; (2) due to the inherently limited nature and amount of the data resulting from environmental investigation methods, complete analysis of conditions is not always possible, and, therefore, conditions frequently vary from those anticipated earlier; and (3) technology, methods, accepted professional standards as well as law and policy, are undefined and/or constantly changing and evolving. In light of all of the foregoing and considering APTIM's lack of responsibility for creating the conditions requiring the Services, as a material inducement to and consideration for APTIM's

agreement to perform the Services on the terms and at the price herein provided for, CLIENT SPECIFICALLY AGREES THAT APTIM'S LIABILITY SHALL BE STRICTLY LIMITED AS PROVIDED IN SECTIONS 10 THROUGH 12 OF THIS AGREEMENT.

10. WARRANTY: APTIM is an independent contractor and APTIM's Services will be performed, findings obtained, and recommendations prepared in accordance with generally and currently accepted professional practices and standards governing recognized firms in the area engaged in similar work. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EITHER EXPRESSED OR IMPLIED.

11. INDEMNITIES: APTIM shall defend, indemnify and hold harmless CLIENT from and against loss or damage to tangible property, or injury to persons, to the extent arising from the negligent acts or omissions or willful misconduct of APTIM, its subcontractors, and their respective employees and agents acting in the course and scope of their employment; provided, however, APTIM shall indemnify CLIENT from and against any loss or damage in the handling or management of any hazardous or radioactive material, or any pollution, contamination, or release of hazardous or radioactive materials, only to the extent resulting from APTIM's gross negligence or willful misconduct. CLIENT shall defend, indemnify and save harmless APTIM (including its parent, subsidiary, and affiliated companies and their officers, directors, employees, and agents) from and against, and any indemnity by APTIM shall not apply to, loss, damage, injury or liability arising from the (i) acts or omissions of CLIENT, its contractors, and their respective subcontractors, employees and agents, or of third parties; (ii) any allegations that APTIM is the owner, operator, manager, or person in charge of all or any portion of a site addressed by the services, or arranged for the treatment, transportation, or disposal of, or owned or possessed, or chose the treatment, transportation or disposal site for, any material with respect to which Services are provided, and (iii) any pollution, contamination or release of hazardous or radioactive materials, including all adverse health effects thereof, except for any portion thereof which results from APTIM's gross negligence or willful misconduct.

12. LIMITATIONS OF LIABILITY:

a. GENERAL LIMITATION - CLIENT'S SOLE AND EXCLUSIVE REMEDY FOR ANY ALLEGED BREACH OF WARRANTY BY APTIM SHALL BE TO REQUIRE APTIM TO RE-PERFORM ANY DEFECTIVE SERVICES. APTIM'S LIABILITY AND CLIENT'S REMEDIES FOR ALL CAUSES OF ACTION ARISING HEREUNDER WHETHER BASED IN CONTRACT, WARRANTY, NEGLIGENCE, INDEMNITY, OR ANY OTHER CAUSE OF ACTION, SHALL NOT EXCEED IN THE CUMULATIVE AGGREGATE (INCLUDING ANY INSURANCE PROCEEDS) WITH RESPECT TO ALL

CLAIMS ARISING OUT OF OR RELATED TO THIS AGREEMENT, WHATEVER MINIMUM AMOUNT MAY BE REQUIRED BY LAW OR, IF NONE, THE LESSER OF THE AMOUNT OF COMPENSATION FOR SUCH SERVICES, OR \$100,000 (WHICH AMOUNT INCLUDES ANY FEES AND COSTS INCURRED IN RE-PERFORMING SERVICES). THE REMEDIES IN THIS AGREEMENT ARE CLIENT'S SOLE AND EXCLUSIVE REMEDIES. ALL CLAIMS, INCLUDING THOSE FOR NEGLIGENCE OR ANY OTHER CAUSE WHATSOEVER SHALL BE DEEMED WAIVED UNLESS SUIT THEREON IS FILED WITHIN ONE (1) YEAR AFTER THE EARLIER OF (1) APTIM'S SUBSTANTIAL COMPLETION OF THE SERVICES OR (2) THE DATE OF APTIM'S FINAL INVOICE. FURTHER, APTIM SHALL HAVE NO LIABILITY FOR ANY ACTION INCLUDING DISCLOSURE OF INFORMATION WHERE IT BELIEVES IN GOOD FAITH THAT SUCH ACTION IS REQUIRED BY PROFESSIONAL STANDARDS OF CONDUCT FOR THE PRESERVATION OF PUBLIC HEALTH, SAFETY OR WELFARE, OR BY LAW.

b. CONSEQUENTIAL DAMAGES: FURTHER AND REGARDLESS OF ANY OTHER PROVISION HEREIN, APTIM SHALL NOT BE LIABLE FOR ANY INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES (INCLUDING LOSS OF PROFITS, DECLINE IN PROPERTY VALUE, REGULATORY AGENCY FINES, LOST PRODUCTION OR LOSS OF USE) INCURRED BY CLIENT OR FOR WHICH CLIENT MAY BE LIABLE TO ANY THIRD PARTY OCCASIONED BY THE SERVICES OR BY APPLICATION OR USE OF REPORTS OR OTHER WORK PERFORMED HEREUNDER.

c. ALL CLAIMS AGAINST APTIM, ITS INSURERS, EMPLOYEES, AGENTS, DIRECTORS OR OFFICERS AND ALL OTHER PERSONS FOR WHOM APTIM IS LEGALLY LIABLE, SHALL BE DEEMED WAIVED UNLESS AND TO THE EXTENT CLIENT SHALL BRING SUIT THEREFOR AGAINST APTIM WITHIN ONE (1) YEAR AFTER APTIM'S SUBSTANTIAL COMPLETION OF THE PARTICULAR SERVICES WITH RESPECT TO WHICH THE CLAIM IS MADE

13. GOVERNING LAWS: This Agreement shall be governed and construed in accordance with the laws of the State in which the site to which the Services are performed is located.

14. TERMINATION: Either party may terminate this Agreement with or without cause upon twenty (20) days' written notice to the other party. Upon such termination, CLIENT shall pay APTIM for all Services performed hereunder up to the date of such termination. In addition, if CLIENT terminates, CLIENT shall pay

APTIM all reasonable costs and expenses incurred by APTIM in effecting the termination, including, but not limited to non-cancelable commitments and demobilization costs.

15. ASSIGNMENT: Neither APTIM nor CLIENT shall assign any right or delegate any duty under this Agreement without the prior written consent of the other, which consent shall not be unreasonably withheld. Notwithstanding the foregoing, the Services may be performed by any subsidiary, parent or affiliate of APTIM or other person designated by APTIM, and, APTIM may, upon notice to CLIENT, assign, pledge or otherwise hypothecate the cash proceeds and accounts receivable resulting from the performance of any Services or sale of any goods pursuant to this Agreement.

16. MISCELLANEOUS:

a. ENTIRE AGREEMENT, PRECEDENCE, ACCEPTANCE MODIFICATIONS: The terms and conditions set forth herein constitute the entire understanding of the Parties relating to the provisions of the Services by APTIM to the CLIENT. All previous proposals, offers, and other communications relative to the provisions of these Services by APTIM, oral or written, are hereby superseded, except to the extent that they have been expressly incorporated by reference herein. In the event of conflict, the four pages of this Agreement shall govern. CLIENT may accept these terms and conditions by execution of this Agreement or by authorizing APTIM to begin work. Any modifications or revision of any provisions hereof or any additional provisions contained in any purchase order, acknowledgement or other document issued by the CLIENT is hereby expressly objected to by APTIM and shall not operate to modify the Agreement.

b. DISPUTES, ATTORNEY FEES – Any dispute regarding this Agreement or the Services shall be resolved first by exchange of documents by senior management of the parties, who may be assisted by counsel. Any thereafter unresolved disputes shall be litigated in the state whose law governs under Section 13 hereunder. In any litigation, the Prevailing Party shall be entitled to receive, as part of any award or judgment, eighty percent (80%) of its reasonable attorneys' fees and costs incurred in handling the dispute. For these purposes, the "Prevailing Party" shall be the party who obtains a litigation result more favorable to it than its last formal written offer (made at least twenty calendar days prior to the formal trial) to settle such litigation.

c. WAIVER OF TERMS AND CONDITIONS - The failure of APTIM or CLIENT in any one or more instances to enforce one or more of the terms or conditions of this Agreement or to exercise any right or privilege in the Agreement or the waiver by APTIM or CLIENT of any breach of the terms or conditions of this

Agreement shall not be construed as thereafter waiving any such terms, conditions, rights, or privileges, and the same shall continue and remain in force and effect as if no such failure to enforce had occurred.

d. NOTICES – Any notices required hereunder may be sent by orally confirmed US Mail, courier service (e.g. FedEx), orally confirmed telecopy (fax) or orally confirmed email (further confirmed by US Mail) to the addresses set forth below.

e. SEVERABILITY AND SURVIVAL - Each provision of this Agreement is severable from the others. Should any provision of this Agreement be found invalid or unenforceable, such provision shall be ineffective only to the extent required by law, without

invalidating the remainder of such provision or the remainder of this Agreement.

Further, to the extent permitted by law, any provision found invalid or unenforceable shall be deemed automatically redrawn to the extent necessary to render it valid and enforceable consistent with the parties' intent. For example, if the gross negligence standard in Section 11 is unenforceable under an applicable "anti-indemnity" statute, but a sole negligence standard is enforceable, the sole negligence standard shall be automatically substituted therefor. The terms and conditions set forth herein shall survive the termination of this Agreement.

CLIENT and APTIM agree to the foregoing (**INCLUDING THE LIMITATIONS ON LIABILITY IN SECTIONS 9-12**) and have caused this Agreement to be executed by their duly authorized representatives as of the date set forth below.

Executed on _____, 20__

CLIENT

Client Name: _____

By (Sign): _____

Print Name: _____

Title: _____

Address: _____

Phone: _____

Fax: _____

E-mail: _____

APTIM ENVIRONMENTAL & INFRASTRUCTURE, LLC

By (Sign): _____

Print Name: _____

Title: _____

Address: _____

Phone: _____

Fax: _____

E-mail: _____

County of Kane
PURCHASING DEPARTMENT
KANE COUNTY GOVERNMENT CENTER

719 S. Batavia Avenue, Bldg. A
Geneva, Illinois 60134

Telephone: (630) 232-5929
Fax: (630) 208-5107



October 2, 2019

PROCUREMENT SYNOPSIS

Requesting Department: Environmental & Water Resources
Procurement Name: RFQ 34-019 Solid Waste Management & Resource
Recovery Plan Consultant
Recommended Vendor: Aptim Environmental & Infrastructure, LLC

NOTIFICATION AND RESPONSE

Public Notices: Kane County Web Site and The Daily Herald

Advertising Date:	September 3, 2019	Notices sent/Plan Holders: 9/14
Proposal Due Date:	September 24, 2019	Proposals Received: 5

PURPOSE

The County of Kane accepted qualifications from experienced professionals to assist with the development of the 2020 update to the Kane County Solid Waste Management and Resource Recovery Plan.

VENDORS	TOTAL SCORES
Aptim Environmental & Infrastructure, LLC 1607 E. Main St., Ste E, St. Charles, IL 60174	98%
Deigan & Associates, LLC 28835 N. Herky Dr., Suite 120, Lake Bluff, IL 60044	38%
Delta Institute 35 E. Wacker Dr., Chicago, IL 60601	53%
Resource Recycling Systems 516 Longshore Dr., Ann Arbor, MI 48105	33%
New Gen Strategies & Solutions, LLC 2875 S. Orange Ave., #300, Orlando, FL 32806	35%

The Requests for Qualifications were reviewed and scored based on the weights and criteria as stated in the RFQ. Environmental & Water Resource staff recommend awarding of this contract to Aptim Environmental & Infrastructure, LLC of St. Charles, IL, pending Committee and County Board Approval.

Submitted By:
Maria C. Calamia
Maria C. Calamia, CPPB
Assistant Purchasing Director



Regional Climate Planning

Process began on October 8

*Creating a regional climate action plan to reduce impacts
of climate change and building thriving, resilient communities.*



Chicago Metropolitan
Agency for Planning





CHICAGO
REGION
TREES
INITIATIVE

Our Trees.
Our Communities.
Our Future.

OAKtober



OAKtober



CHICAGO
REGION
TREES
INITIATIVE

Our Trees.
Our Communities.
Our Future.

- Since 2015
- **OAKtober- Oak Awareness Month in Illinois**
- White Oak- Illinois State Tree
- Represent strength & stature
- Improve our well-being and support a sense of community.
- Clean our air & water
- Reduce ambient air temperature
- And energy usage





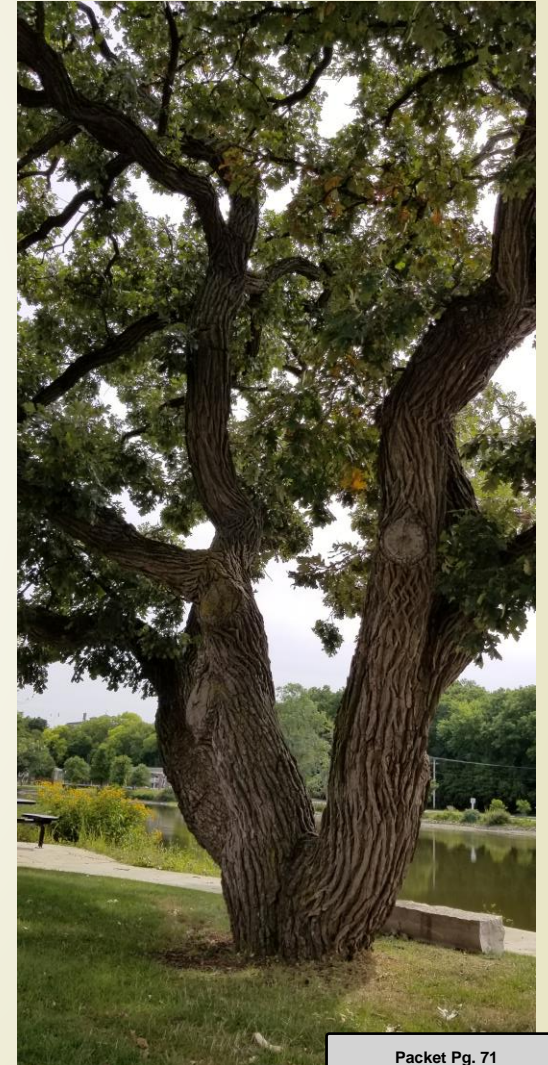
CHICAGO
REGION
TREES
INITIATIVE

Our Trees.
Our Communities.
Our Future.

Celebrate!!!

- **October 12** 8:30-11:00am; Morton Arboretum: *Basic Tree ID*
- **October 17** 4-6pm, Campton Forest Preserve: *Trek with a Naturalist*
- **October 20** 9:30-11am, Red Oak Nature Center: *In Search of Giants: The Kane County Big Tree Program*
- **October 26** 1:00-2:30pm, Morton Arboretum: *Whiskey Walks*

Visit <http://chicagortl.org/OakResources> for more resources



Partner Excellence Award

Rivers, Trails & Conservation Assistance Program
Midwest Region

