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Materials Management Advisory Committee – Infrastructure Subcommittee

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Proposed Scope of Work

Objective: Identify shortcomings in existing waste diversion network and propose viable improvements to address those lapses.

Infrastructure Subcommittee's Areas of Responsibility. P.A. 101-0074 requires the Materials Management Advisory Committee to prepare a report that addresses the nine requirements stipulated in the Act. The Infrastructure Subcommittee's work will help fulfil the following report requirements:

- An analysis of the markets available for materials diverted from Illinois landfills. 415 ILCS 15/4.5(j)(4)
- Recommended actions that could be taken to increase landfill diversion rates and the costs associated with those actions. 415 ILCS 15/4.5(j)(6).
- A database and map of permitted facilities, including but not limited to, landfills, garbage transfer stations, landscape waste transfer stations, construction and demolition debris recycling facilities, recycling facilities, compost sites, and scrap metal recycling facilities. 415 ILCS 15/4.5(j)(9)

The Subcommittee's work will overlap with other subcommittees. With respect to report requirement #4 we anticipate working with the Market Development Subcommittee which is primarily responsible for fulfilling this report requirement. But as the Infrastructure Subcommittee looks at the existing waste diversion network it must also evaluate the existing part of the waste diversion network that actually uses recyclables and compost in the marketplace. It may be useful to create a database of the end market users in IL and nearby states for recyclables and compost and to include this as part of the database required by report requirement #9.

With respect to report requirement #6, included in our objective is proposing viable improvements to the existing waste diversion network. As the Local Government Support Subcommittee (which is primarily responsible for #6) begins developing programmatic ideas for County plans, it should do this in coordination with identifying infrastructure and hauling needs. The infrastructure and hauling components must also be brought into the estimate of costs to implement landfill diversion programs which is also required by #6. Under report requirement #6, our objective will include proposing viable improvements to the presently deficient statewide HHW collection infrastructure. (Refer to *Task Force on the*

Advancement of Materials Recycling State of Illinois Final Report dated January 1, 2015, pp.26-27 and 57-58).

Finally, report requirement #9 will be an essential database for the Infrastructure Subcommittee as it looks to identify lapses in collection and infrastructure to manage recyclables and organic material (landscape waste and food scraps) throughout Illinois. The actual development of the database of facilities is not the direct responsibility of the Infrastructure Subcommittee but is a responsibility of the IEPA that the Subcommittee may assist with.

Proposed Scope of Work. The following is the proposed scope of work for the Infrastructure Subcommittee.

1. Assist with development of the database and map of facilities as required by report requirement #9.
 - a. Review information from IEPA's facility databases for accuracy
 - b. Include list of POTWs and CAFOs with anaerobic digestors
2. Assist the Market Development Subcommittee develop a database of existing markets in IL and nearby States for recyclables and compost.
 - a. Review 2001 and 2010 Recycling Economic Information Studies prepared for DCEO to compile list of existing end markets for materials identified per report requirement #5.
 - b. Consider asking for funding to update the 2010 study and to include in the scope a more complete listing of end use users of recyclables and compost, and in particular the materials identified in report requirement #5 as specific targets to maximize waste diversion.
3. Using the data compiled in work items 1 and 2, develop a list of facilities needed by type and by approximate location. This may include compost sites, anaerobic digestors, material recovery facilities, C&D recycling facilities, chemical plastics recycling facilities, MRFs, special plastics MRFs, HHW facilities, and waste gasification facilities (any facility that can assist with diverting material from the landfill will be considered per report requirement #6).
 - a. Determine if a capacity issue exists with existing MRFs, C&D recycling facilities and compost sites in IL, determine the shortfall in capacity if the recommended waste diversion rates developed in accordance with report requirement #8 are met.
 - b. Evaluate the need for new processing facilities for mixed plastics to recover plastics besides #1 and #2.
 - c. Evaluate the status of proposed facilities in IL, including the Fulcrum project in N. Illinois and the INEOS styrene chemical recycling plant in Channahon, IL, and determine the role such facilities can play in diverting more material from the landfill.
 - d. Include approximate costs to construct and operate such facilities and/or develop an estimated per ton tipping fee for each facility.
 - e. Evaluate the role of the State and other private entities in providing infrastructure grants and/or loans to spur development of new infrastructure.

4. Identify additional shortcomings in the waste diversion network
 - a. Evaluate the status of hauling services provided in different parts of the state, the impediments to offering curbside recycling and organics collection, and possible solutions for overcoming the identified impediments
 - i. Compile a statewide directory of haulers that provide residential and commercial waste collection (not including C&D roll off only companies).
 - ii. Evaluate mandatory ordinances (Peoria and Kane Counties), do they work or not?
 - iii. Franchising of residential collection in more rural counties, evaluate how to overcome resistance to franchising, and alternatives to franchising such as the municipal ordinance approach used by the City of Springfield.
 - b. Can more recovery of targeted materials be effectively achieved at landfills and garbage transfer stations

For additional information please contact: David Saladino