

**City of Lino Lakes  
Environmental Board Meeting**

**May 27, 2015  
6:30 p.m.**

**AGENDA**

1. Call to Order
2. Approval of Agenda
3. Approval of Minutes
- April 29, 2015
4. Open Mike
5. Action Items
  - A. Consider Feasibility Study for Storm-water Reuse/Mattamy Homes
6. Discussion/Information Items
  - A. Discussion of Integrated Water Management Plans for Local Government Units
  - B. Foxborough Maintenance Update
7. Adjourn

**CITY OF LINO LAKES  
ENVIRONMENTAL BOARD MEETING**

**DATE** : April 29, 2015  
**TIME STARTED** : 6:32 P.M.  
**TIME ENDED** : 7:38 P.M.  
**MEMBERS PRESENT** : Steve Heiskary, Barbra Bor, Paula Andrzejewski,  
Alex Schwartz, John Sullivan  
**MEMBERS ABSENT** : Nancie Klebba  
**STAFF PRESENT** : Marty Asleson, KC Kye

Pre-Meeting Site Visit at Wollan's Park - 5:30 p.m.

**1. CALL TO ORDER AND ROLL CALL:**

Chair Heiskary called the Lino Lakes Environmental Board meeting to order at 6:32 p.m. on April 29, 2015.

**2. APPROVAL OF MINUTES:**

March 25, 2015

Ms. Andrzejewski made a MOTION to approve the March 25, 2015 Meeting Minutes. Motion was supported by Mr. Schwartz. Motion carried 5 - 0.

**3. APPROVAL OF AGENDA**

Chair Heiskary would like to add item  
E. Rice Creek Water Shed District proposal for a draw down on Lake Peltier

Ms. Andrzejewski made a MOTION to approve the agenda with the added item. Motion was supported by Mr. Schwartz. Motion carried 5 - 0.

**4. OPEN MIKE**

Chair Heiskary declared Open Mike at 6:35 p.m.

There was no one present for Open Mike. Closed 6:36 p.m.

**5. ACTION ITEMS (No Action Items)**

**6. DISCUSSION ITEMS**

**A. 10,000 Trees for Lino Lakes**

Mr. Aselson gave the summary of trees order by Lino Lakes residents. There were 362 trees and shrubs from Anoka County Conservation District and 6 trees from the Tree Trust.

There were 1,000 trees planted by the Centennial Student Council off of Moliter Road. We can grow them and then dig them up later to give them out to residents that want to replace ash trees.

Ms. Bor suggested that we get the information out earlier for the replacement of trees hopefully in the January newsletter.

Mr. Aselson will make the decision of doing the tree sale in-house or with the Tree Trust next year.

**B. Emerald Ash Borer Management Plan Revisit**

Mr. Heiskary explained that the Emerald Ash Borer Management Plan was discussed and the final report was written up in 2011.

Mr. Aselson stated that what is different from other cities plans is that the Lino Lakes has come up with a efficient way to get rid of material when it comes to cutting down the diseased trees.

The board would like to amend the plan; page 2, number 2 would like to have the addendum read:

That in the event of tree replacement, the city will educate and share information of opportunity for cost effective tree replacement

Mr. Sullivan asked if there is a grant with the state or county that would deal with tree replacement.

Mr. Aselson said he would look and see what grants are out there.

The board also would like to recommend:

Starting in 2016 a 5 year plan with the minimum of \$5 thousand per year allocation for replacement to the tree canopy due to Emerald Ash Borer.

Mr. Asleson would like to also add that the City strongly discourages the use of soil drench insecticides applied by the homeowner due to potential to pollute water and negatively impact wildlife.

Ms. Bor and Chair Heiskary would like to see the addendum Emerald Ash Management Plan and the quarantine information and explanation on the City's web site.

Mr. Heiskary would like this agenda item on the next meeting. Also have the addendum Emerald Ash Borer Management Plan on the next work session.

**C. Earth Day**

The volunteers that attended were a great group of students, there was a good crowd that showed up this year.

Ms. Bor mentioned that several other groups noticed the Environmental Board enthusiasm.

Mr. Heiskary suggested that next year have the slide show projected on the wall or screen behind the group.

Ms. Bor proposed to send the Environmental Board slide show to all the other boards. It will show the Environmental Board goals and what the board is striving for in Lino Lakes. Also to show it at next years goal meeting before City Council.

**D. Recycling Updates and Yearly Recycling Day**

Mr. Heiskary mentioned since the mattress and furniture recycling has been overwhelming and offering it quarterly may help.

We need volunteers at the Saturday, May 2 Annual Recycling Day.

Mr. Heiskary would like to go through the Annual Recycling Budget at the next meeting.

**E. Draw Down on Lake Peltier**

Mr. Heiskary had a memo Matt Kocian of Rice Creek Watershed District proposing to do a draw down on Peltier Lake to improve the water. It has been their habit to have a public meeting to inform the residents affected and Mr. Heiskary would like to have the meeting at Lino Lakes City Hall. Also closer to the meeting date it



would be nice if Rice Creek Watershed came and talked to the Environmental Board.

Mr. Asleson stated that this is a water management plan. About 80% of the pollution to the Rice Creek water ways comes from Peltier Lake. Majority of this is from phosphorous . When they draw down the water this allows the phosphorous to dry up .

Mr. Heisarky mentioned that the draw down is usually done in the fall and will have impact over the winter.

**7. ADJOURNMENT**

Ms. Andrzejewski made a MOTION to adjourn the meeting at 7:38 p.m. Motion was supported by Ms. Bor. Motion carried 5 - 0.

Respectfully submitted,  
Mary Fogarty  
City of Lino Lakes

**ENVIRONMENTAL BOARD  
AGENDA ITEM 5A**

**STAFF ORIGINATOR:** Marty Asleson, Environmental Coordinator

**MEETING DATE:** May 27, 2015

**REQUEST:** Consider authorizing a Feasibility Study for development of a Stormwater Reuse & Irrigation System

**APPLICANT:** City of Lino Lakes

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**BACKGROUND**

From the Metropolitan Council, “Stormwater reuse is the collection of, and the use of stormwater runoff that is reclaimed for specific, direct, and beneficial uses. The term stormwater reuse is used to describe water that is collected on-site and utilized in a new application. Stormwater reuse also called rainwater harvesting, rainwater recycling, or rain water reclamation.”

“Two water problems are emerging in urban areas, including the Twin Cities: excessive stormwater runoff is degrading our surface waters, and water treatment plants are undergoing costly expansions. These may seem to be unrelated problems, yet there is a common solution.

In an average year, 29 inches of precipitation (including 56 inches of snow) will fall on the Twin Cities region of Minnesota. Typically 70% of non-snow urban precipitation and 100% of the snowmelt becomes runoff; essentially all of the precipitation that falls on hard surfaces, such as rooftops, parking lots, sidewalks, and streets. This runoff is collected and allowed to drain to our lakes and streams through underground pipe networks, called storm sewers or storm drains. The 30% of non-snow precipitation that falls onto our yards, gardens, parks and fields is not enough to maintain urban vegetation. During hot weather and extended periods of drought, Twin Cities property owners will use 45 to 120 gallons per person per day of treated drinking water for outdoor uses.”

The benefits of stormwater reuse collection include:

- Conserve potable water supplies for essential uses.
- Reduce demand on existing potable water treatment and distribution systems.
- Reserve current capacity for higher value potable use; and lengthen service life of existing infrastructure.
- Reduce peak demands on the potable water system that typically occurs during the summer irrigation and landscape watering season.

- Reduce the volume of stormwater and quantity of pollutants discharged to lakes and streams, ultimately improving the quality of these natural resources.
- Cost effectiveness under certain circumstances.
- Groundwater conservation and recharge.

Stormwater collected for reuse can be screened and filtered for common concerns such as pathogens, solids, salts, oil and grease, and metals

Again, the water volume retention requirements are written to mitigate downstream erosion caused by non-natural increases in water volumes. Keeping normal water retention volumes on site is also important for maintaining natural ecosystem sustainability balances. In non-pervious soil areas of new developments, soil retention is important for phosphorous removal, before being released to our natural aquatic systems. Finally, using stormwater runoff for something like irrigation reduces the stress to our fresh water pumping system, ground water resource.

The City has in the past taken a Stormwater Treatment Train approach to surface water management. That is rain fall is managed from the time it hits the ground or a rooftop to maximize the potential for water to be used onsite. Stormwater Treatment Trains integrate a number of water “capture” techniques and built structures in order to accomplish this maximized use of stormwater. Using stormwater for irrigation is a treatment train element. Since there are limitations to infiltration approaches in areas that have clay soils, irrigation systems to reuse is an alternative BMP. Stormwater irrigation use in cases like this can add a significant amount of stormwater to the treatment train. Reuse is now being recognized by regulatory agencies as a means to meet the volume standards.

The City is currently working with the Rice Creek Watershed District on a Stormwater Management Plan for 1400 acres currently served by Ditch 55 and 72. The NE Lino Lakes Drainage study identifies water reuse as a potential best management practice within the drainage area to offset limited infiltration ability. Water reuse has the ability to address both stormwater management requirements and address water conservation goals.

Mattamy Homes is a 370 acre proposed residential development within the study area. While no city approvals have been granted, the project, regardless of its final form, will require large areas of stormwater ponding and contain a significant amount of open space and public park land.

Irrigation and seasonal non-domestic use accounts for an estimated 1/3 of the city’s annual residential water use. Accordingly staff is interested in evaluating the opportunity to establish a stormwater irrigation system to serve the entire property. Again, the ability to establish a system like this would help to meet stormwater volume and water quality requirements while reducing groundwater pumping demands.

A proposed WSB study (See Attachment) would evaluate water demand, stormwater availability, irrigation quantities, reduction in potable water use, and provide preliminary

design schematics for a system. It would also investigate funding alternatives and ordinance/policy revisions. The overall study would provide a framework to evaluate and implement this approach to new development city wide. WSB is proposing to complete the study for an estimated fee of \$13,400.

This study would be funded from the City's Trunk Utility Area and Unit fund.

### **RECOMMENDATION**

Staff is asking the Lino Lakes Environmental Board to review and make recommendation for the implementation of the attached study proposal.

### **ATTACHMENTS**

1. WSB Proposal Reuse Irrigation System



engineering • planning • environmental • construction

701 Xenia Avenue South  
Suite 300  
Minneapolis, MN 55416  
Tel: 763-541-4800  
Fax: 763-541-1700

April 29, 2015

Mr. Michael Grochala  
Community Development Director  
600 Town Center Parkway  
Lino Lakes, MN 55104

Re: Proposal and Fee Estimate for Professional Engineering Services  
Mattamy Homes Development Stormwater Reuse and Irrigation System Feasibility Study  
City of Lino Lakes, MN

Dear Mr. Grochala:

WSB & Associates, Inc. (WSB) is pleased to present this proposal to the City of Lino Lakes (City) to provide professional engineering services for developing a feasibility study (Study) for stormwater irrigation at the Mattamy Homes development. The Mattamy Homes development is located north of County Road 14 between 20<sup>th</sup> Avenue North and Interstate-35E. The City hopes that irrigation in the development can be entirely achieved using stormwater withdrawal from the development's retention ponds. The development's system is unique in that individual homes will connect directly to the irrigation system and each residential home will retain control over the irrigation system.

To ensure this goal is achievable, the proposed Study conducted by WSB will include the following tasks specific to the Mattamy Homes Development:

1. Water balance model including estimated irrigation quantities, anticipated potable water usage reduction, anticipated pond water volumes/levels, and estimate stormwater runoff based on historical rainfall;
2. Preliminary design schematics for the irrigation system including filtration, pumps, and piping;
3. Cost estimate and funding alternatives for system; and
4. Preliminary ordinance review to identify possible policy revisions for irrigation system controls/ownership.

WSB's project scope and proposed work plan as presented is based on our understanding of the project, discussions with City Staff, and experience on similar projects. The following are the major tasks that will be performed in preparing the City's stormwater reuse and irrigation system feasibility study.

### **Task 1: Project Management and Coordination**

Project management is a key task included in each project undertaken by WSB. This task consists of management and administration, project coordination, and overall communication with the City. Proper completion of this task will help keep all affected parties routinely updated and informed regarding project issues, as well as keep the project on schedule and within budget. The proposed work plan will include one meeting with the City prior to finalizing the Study to discuss results.

### **Task 2: Water Balance Development**

*Task 2.1:* WSB will develop a model to predict the annual stormwater available for irrigation. The model will take into consideration historical precipitation, drainage area, pond size, evaporation, and irrigation demand. The model will estimate volume reduction credits, if desired, generated by the project. WSB will work directly with the developer to obtain the necessary grading and preliminary plat information necessary for this task.

*Task 2.2:* A technical memorandum will be submitted with the model results. The memorandum will summarize methods used during model creation, assumptions made, and implications for irrigation design.

### **Task 3: Preliminary System Design**

*Task 3.1:* The number of required pumping zones will be estimated based on flow and pressure requirements. Upon this determination, the zones will be delineated and mapped.

*Task 3.2:* The irrigation networks for each pumping zone will be proposed and drawn on a schematic. The networks will minimize cost and ensure landowners can attach individual irrigation systems to the network.

### **Task 4: Cost Estimates and Funding Alternatives**

*Task 4.1:* The total project costs for project implementation will be estimated and submitted in a spreadsheet. The estimate will consist of a per unit flat fee for water users and will consider the results of the water balance and potable water requirements in rate determination.

*Task 4.2:* A cost recovery spreadsheet will be developed to assist City planning, including installation and maintenance. Grant opportunities will be considered as alternatives.

### **Task 5: Preliminary Ordinance Review and Proposed Policy Revisions**

*Task 5.1:* The City's existing ordinances will be reviewed to evaluate if policy revisions will be necessary to implement a water reuse and irrigation utility.

*Task 5.2:* If deemed necessary, policy revisions will be recommended in the final feasibility report. This task does not include fees associated with the ordinance revisions; however, that service can be provided in requested under a separate scope of work.

Mr. Michael Grochala  
April 29, 2015  
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**Task 6: Final Feasibility Report Preparation**

**Task 6.1:** WSB will prepare a draft feasibility report for and submit for City review. WSB will incorporate any comments provided by the City into the final report preparation.

**Task 6.2:** WSB will prepare the final feasibility report incorporating any comments provided by the City on the draft report. WSB can present the findings at a City Council meeting if desired.

**Estimated Fee**

WSB will complete the proposed work plan as proposed herein on an hourly basis with an estimated fee of \$13,400. The hourly breakdown by task for each employee class proposed for the project is included on the attached spreadsheet. The proposed fee is based on our 2015 rate schedule.


**Schedule**

WSB will complete the feasibility study within 2 months of receipt of a written authorization.

This represents our total understanding of the project and proposed scope of services. If you are in agreement with the scope of services, please sign the bottom of this letter and return a copy to WSB. Our receipt of an executed copy will be WSB's authorization to proceed. Should the City request additional services outside of the above scope of services, we will work with you to establish a revised scope and fee. Please contact me at your convenience at 651-286-8457 if you have any questions or concerns related to this proposal as presented. We appreciate the opportunity to assist you and your staff with the completion of this project.

Sincerely,

*WSB & Associates, Inc.*

  
Jamie Wallerstedt, PE  
Project Manager

Attachments

cc: Diane Hankee, WSB & Associates, Inc.

kkp

Accepted by City of Lino Lakes

By \_\_\_\_\_

Title \_\_\_\_\_

Date \_\_\_\_\_

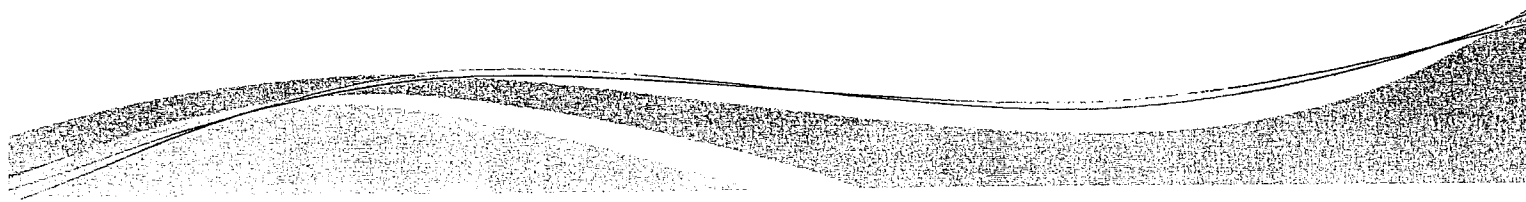


# Mattamy Water Reuse Feasibility



Environmental Board Meeting

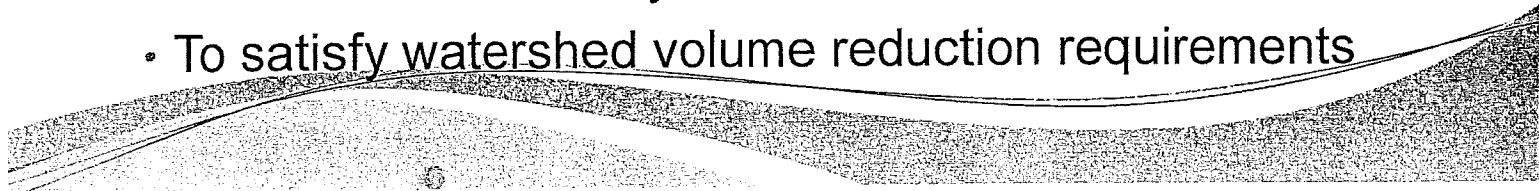
May 27, 2015







# Water Reuse

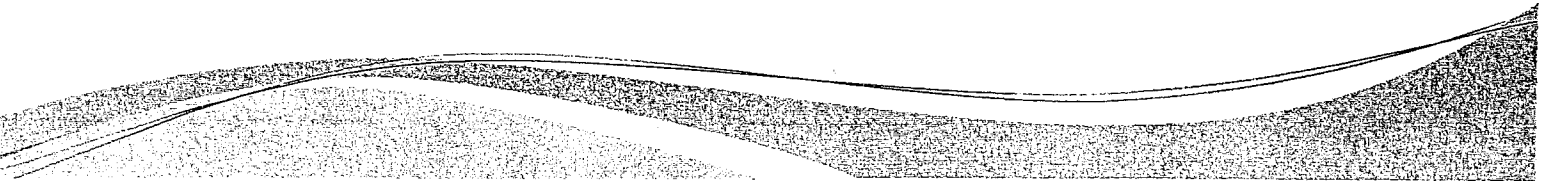
- Feasibility Study to Evaluate Water Reuse Options at Proposed Mattamy Development
  - Water Reuse May Include:
    - Irrigation of public open areas
    - Infiltration systems within public open areas
    - Irrigation of private residential properties
  - Purpose of Water Reuse:
    - To utilize water resources sustainably
    - To use water as many time as feasible
    - To satisfy watershed volume reduction requirements
- 





# Mattamy Water Reuse

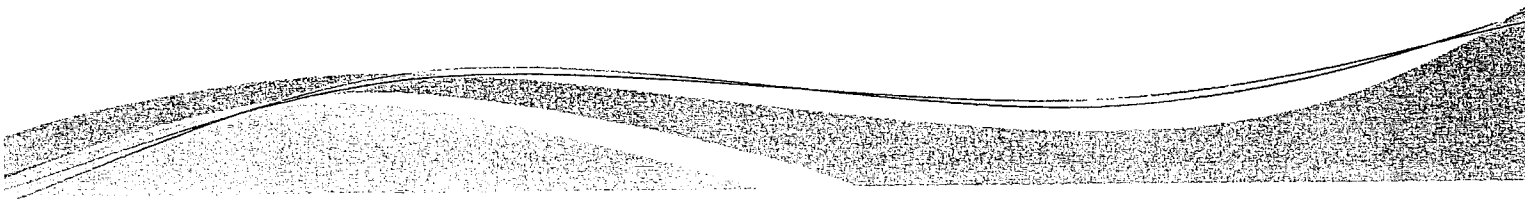
- Study to Include:
  - Water Balance Model
  - Preliminary Design Schematics
  - Cost Estimate and Funding Alternatives
    - Multiple grant options
      - PFA
      - BWSR
  - Preliminary Ordinance Review





# Mattamy Water Reuse

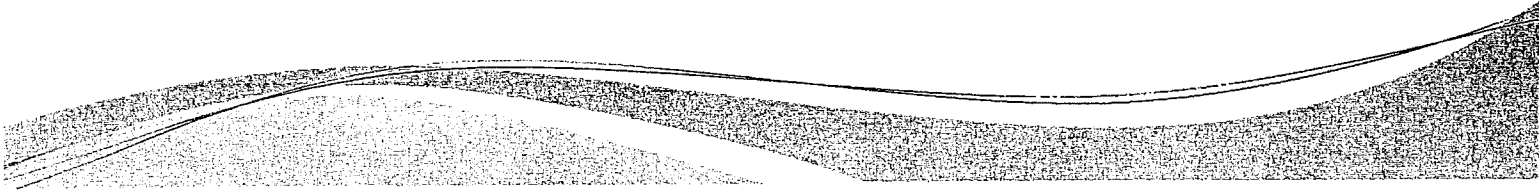
## • Next Steps:

- Final Design of Recommended Water Reuse Alternative
  - Annual Monitoring of Water Reuse Systems
  - RCWD Credit Verification
  - Operations Optimization
  - Additional Water Reuse System Implementation
  - System Operation Agreements/Possible Ordinance Revisions
- 



# Mattamy Water Reuse

## • Schedule:

- Feasibility Development – June-July 2015
  - Final Report – August 2015
- 



Questions?



**ENVIRONMENTAL BOARD  
AGENDA ITEM 6A**

**STAFF ORIGINATOR:** Marty Asleson, Environmental Coordinator

**MEETING DATE:** May 27, 2015

**REQUEST:** Discussion of Integrated Water Management Plans for Local Government Units

**APPLICANT:** City of Lino Lakes

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**BACKGROUND**

Over the past three years management of both surface water and groundwater resources have received increased awareness both locally and regionally. Lino Lakes is included in the North and East Metro Groundwater Management District established by the Department of Natural Resources.

The District was created to study and implement management strategies that would preserve the sustainability of ground waters supporting ecosystems, water quality, and future supply needs. Although the sudden drawdown of White Bear Lake appears to have triggered the creation of the planning area. We have our own concerns about Metropolitan Council studies that model our own chain of lakes drying up in the next 50 years

The Minnesota DNR's stance is that climate change is most likely the cause of depleted water resources, however; there are other theories including groundwater depletion and use that must be looked at. Looking at opportunities to better use and better understand surface and groundwater interactions and everything else that can change water resource balances is in the best interest of Lino Lakes.

Internally, staff has been discussing with WSB, city engineer, opportunities for improving the efficient use of both surface water and groundwater resources. At this time staff is requesting that the Environmental Board make recommendation for a study that would address the relationship between growth, and water use. The Study would produce an Integrated Water Management Plan

WSB and Associates had prepared and submitted to the Legislative-Citizens Commission on Minnesota Resources (LCCMR) on behalf of the City, a proposal to apply for funding) to develop an Integrated Water Management Plan (IWM). The City Council approved this submittal. The cities of Hugo and Rosemount are also included in this request. The IWM would serve as a comprehensive document for water supply

alternatives, water reuse planning, funding and implementation in the City. The results of the research would be used to inform design and policy decisions for future development. There is no cost to the city for the initial application. WSB is provided an estimated fee of \$7,400 if the application receives preliminary approval for development of a detailed work plan. The grant application will request approximately \$150,000 for each community. The submittal deadline is May 11, 2015 for 2016 funding.

#### **RECOMMENDATION**

None required if the grant is awarded.

#### **ATTACHMENTS**

1. WSB Proposal





engineering • planning • environmental • construction

701 Xenia Avenue South  
Suite 300  
Minneapolis, MN 55416  
Tel: 763-541-4800  
Fax: 763-541-1700

April 29, 2015

Mr. Michael Grochala  
600 Town Center Parkway  
Lino Lakes, MN 55104

Re: Integrated Water Management Plan  
Legislative-Citizens Commission on Minnesota Resources Grant Proposal for the  
City of Lino Lakes, MN

Dear Mr. Grochala:

We are submitting for your review the following proposed scope of services to apply for funding through the Legislative-Citizen Commission on Minnesota Resources (LCCMR) to develop an Integrated Water Management (IWM) Plan for the City of Lino Lakes alongside the Cities of Hugo and Rosemount. IWM creates policy and implementation links between drinking water, surface water, groundwater, stormwater, and wastewater to develop water programs that meet local and regional sustainability goals. IWM Plans address the increase in aquifer demands while encouraging economic growth using a sustainable water supply. Having an IWM Plan allows for consistent public communication, provides regulatory guidance, and will continue to make the City of Lino Lakes a leader in water management.

### **LCCMR Summary**

The LCCMR is composed of seventeen individuals appointed by the Senate, the House of Representatives, and the Governor. The main function of the LCCMR is to make recommendations to the legislature for the allocation of the Environment and Natural Resources Trust Fund (ENRTF) on an annual basis. The ENRTF provides funding for activities that protect and conserve Minnesota's natural resources. The ENRTF was established in 1991, and has since then provided \$425 million in funding for environmental projects. LCCMR grants provide financial support for large environmental initiatives and do not require cost-sharing. The grants are awarded based on LCCMR funding priorities, extent of impacts, and innovation. Water resources are the second of seven priorities for 2016 funding. Money from the ENRTF for the 2016 funding can be used beginning July 1, 2016.

### **LCCMR Grant Framework**

The intent of the LCCMR is to provide innovation opportunities for any project that is likely to have multiple benefits on natural resources or the environment in the State of Minnesota. As such, if all Cities are in agreement, we are proposing to submit one LCCMR proposal for the three cities: Lino Lakes, Rosemount, and Hugo. The application will request specific funding

amounts for the IWM Plans for each City, as well as an additional funding amount to be used towards commonalities and general IWM Plan research that will be used in each City-specific IWM Plan. The application will specify a specific dollar amount to be allocated towards each City's plan. WSB believes that applying for one grant increases the size and scope of the project and expands its research application; therefore, improving the chances of funding through the LCCMR. By combining efforts, it will demonstrate to the LCCMR that this topic is relevant for local units of government and important topic for the current political climate at the State Capital. It will also describe the urgency for cities to be proactive and involved with water policy and implementation practices in the State.

### **LCCMR Grant Process and Schedule**

The submission deadline for 2016 funding is due May 11, 2015. During the summer of 2015, all proposals are reviewed, evaluated, and ranked by the LCCMR. In September, the LCCMR selects an unspecified number of top ranked proposals to give presentations. The commission selects a subset of proposals to recommend to the legislature for funding. The selection is based on funding priorities and total funding availability. Between November and January 2015, the projects that have been recommended for funding submit work plans to the LCCMR and undergo peer review. From January to May 2016, the LCCMR presents its recommendations to the legislature as an appropriation bill, the bill is acted upon by the State House and Senate, and the Governor signs the bill into law. Money from the ENRTF can be used beginning July 1, 2016.

### **Anticipated IWM Plan**

The City of Lino Lakes' IWM Plan will serve as a comprehensive document for water supply alternatives, water reuse planning, funding, and implementation in the City. The Plan will develop an overall water balance for the City and will examine local, regional, and national rules and their effects on Lino Lakes' water supply and reuse systems. The City of Lino Lakes' IWM Plan will include an evaluation and analysis of the water initiatives that Lino Lakes is currently planning. The following anticipated analyses of Lino Lakes' water supply and reuse will be conducted:

- Mattamy Homes community:
  - Evaluation of water reuse systems currently in place during funding timeframe (potable water use reduction, costs, effect on surface water levels)
  - Study of planned water reuse expansion (feasibility, effects)
- Implementation plans for new water reuse systems throughout the City
- Evaluation of groundwater recharge
- Development of a 4<sup>th</sup> utility for irrigation
- Quantify water supply system infrastructure benefits by implementing water reuse
- Rate analysis for both water supply system and irrigation system

Lino Lakes will be able to use the results of the research conducted to inform design and policy decisions for future development. The City's IWM Plan, along with Hugo and Rosemount's Plans, will become an example for other communities within the State of Minnesota. The LCCMR will identify this as an overall benefit to the State's resources and therefore, we believe

Michael Grochala  
April 29, 2015  
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the probability of funding will increase. Lino Lakes will benefit from the City of Rosemount's and the City of Hugo's IWM plan development as each City has differing factors to be considered with water supply and water reuse implementation. The City of Rosemount, for instance, will also be looking at both industrial and wastewater treated effluent water reuse. This will supplement the work that Lino Lakes has previously completed to ensure that all types of water reuse are considered with in the City.

### **WSB Services and Fee**


The proposed services (schedule and detailed fee attached) include all work required for grant writing, application, submittal, and work plan development (if selected). WSB's services include LCCMR presentation, discussions with supporting Representatives, and meetings required to move the application through the Commission and the Legislature. If all three Cities are included in the LCCMR grant application, the total estimated fee is \$7,400 for each community. The efforts of this application process will be shared between the communities as the beneficiaries of the proposed grant. It is anticipated that the grant application will include approximately \$150,000 for each community depending on the scope of work desired in each community's IWM Plan.

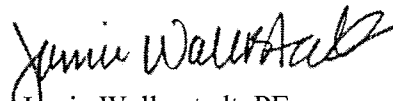
WSB believes this is an exciting opportunity for these communities and it will be an important effort for these communities to be leaders of innovative water supply, reuse, and policy in the State. By the Cities joining into this cooperative project for efforts they are planning to pursue individually, they will be able to benefit and realize a cost savings during the grant application process and during the plan development from overlapping efforts.

We appreciate the opportunity to be of service to you. Please feel free to contact me if you have questions or concerns regarding this scope of work.

Sincerely,

WSB & Associates, Inc.

  
Todd Hubmer, PE  
Principal

  
Jamie Wallerstedt, PE  
Project Manager

Cc: Diane Hankee, City Engineer

kkp



# LCCMR Grant Application Update

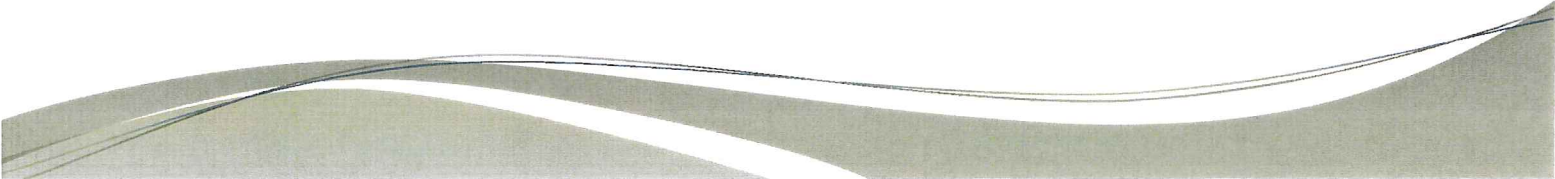


Environmental Board Meeting  
May 27, 2015






## Legislative-Citizen Commission on Minnesota Resources (LCCMR)

- Grant from the Environment and Natural Resources Trust Fund
  - Money for Research, Acquisition, and Implementation Activities Surrounding Natural Resource Innovation and Conservation
  - Provided \$425 Million in Funding Since 1991
  - 2015 Funding:
    - 152 Applicants totaling \$126.3 million
    - 65 Recommended applicants totaling \$46.3 million
- 



# Legislative-Citizen Commission on Minnesota Resources (LCCMR)

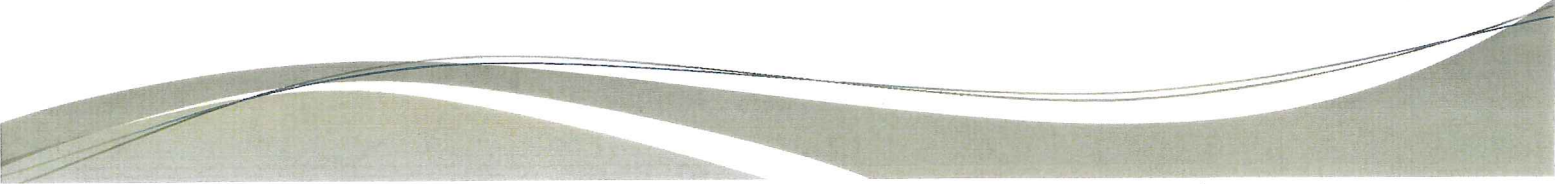
- Application Schedule:

- Final Applications Due – May 11, 2015
  - LCCMR Application Evaluation – Sept-Oct 2015
  - Finalize Allocation Decisions – October 21, 2015
  - Develop Project Work Plans – November-December 2015
  - LCCMR Recommendations to Legislature – January-May 2016
  - Funds Available – July 1, 2016
  - ***No local match required***
- 

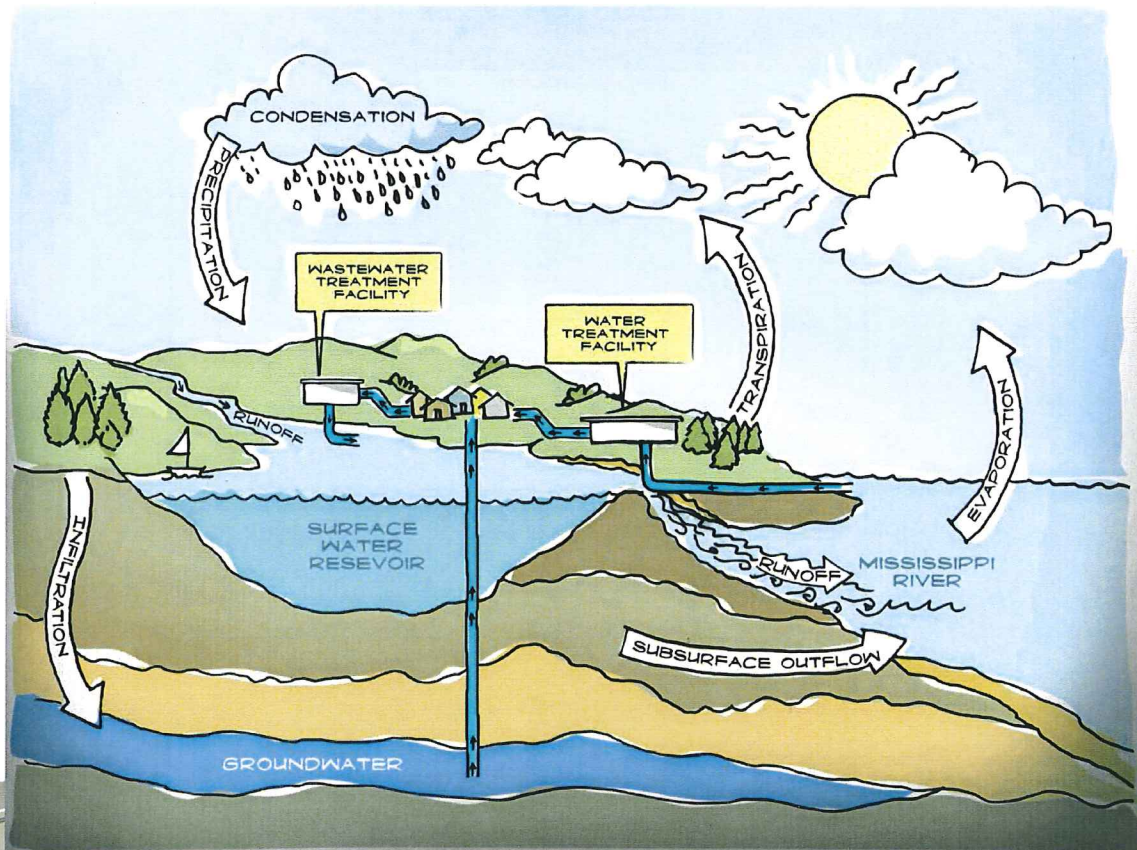




# Integrated Water Management Plans

- Planning document that encompasses both implementation and policy links between:
    - Drinking water
    - Surface water
    - Groundwater
    - Stormwater
    - Wastewater
  - Links include storm water reuse and treatment, groundwater recharge, and treated effluent reuse
  - MCES is looking into IWM for comprehensive planning
- 

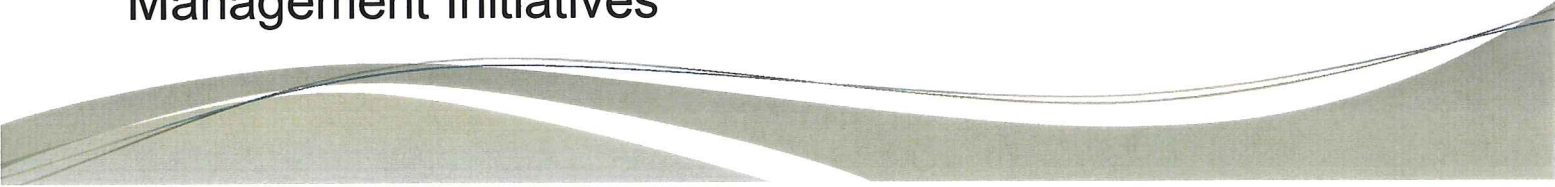
# Integrated Water Management Plans







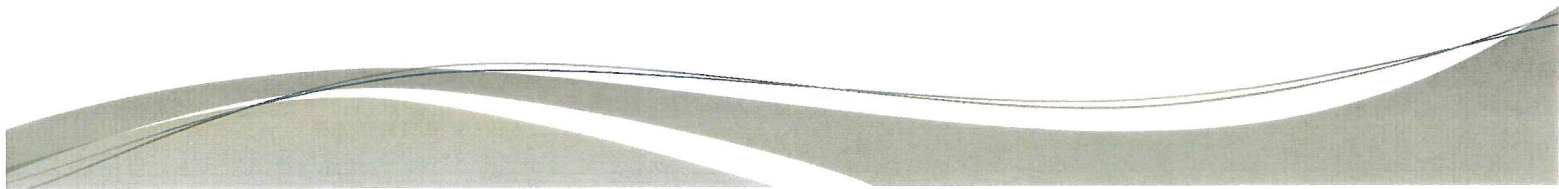
## Benefits to Lino Lakes - Direct

- *Monitoring Water Reuse System Performance*
  - *Funds for Reuse Improvements*
  - *Contaminant Sampling and Reduction Strategies*
  - *Development of an Irrigation Utility*
  - *Quantification of Infrastructure Benefits of Water Reuse*
  - *Analysis of Aquifer Recharge*
  - *Policy Revision Recommendations*
  - *Incorporate Plan into City's 2018 Comprehensive Water Resource Plan by Reference*
  - *Approximately \$200,000 for Water Resource Management Initiatives*
- 



## Benefits to Lino Lakes - Indirect

- Continued Leadership in Sustainable Water Resource Management
- Improvements in Local and Regional Water Quality and Aquifer Recharge
- Informed Policy Development at the Local Level





Questions?



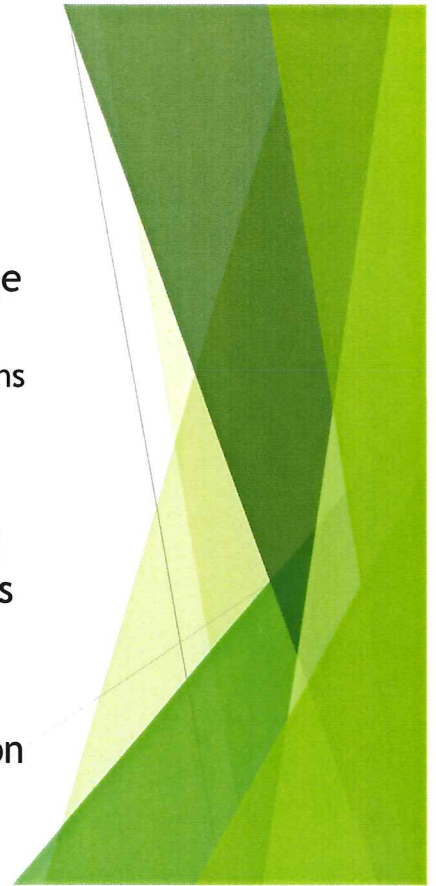
# Lino Lakes Recycling



Environmental  
Board Meeting  
05/27/15

## Continuing Recycling Efforts at Lino Lakes in 2014/15

- ▶ Anoka County Awards for reaching 2013 recycling tonnage goals, and increasing tonnage
  - ▶ Currently on pace to reach 2015 goal (1836 tons) with 627.51 tons
- ▶ Added organic recycling at LLPS
- ▶ Added Furniture and Mattress Processing
- ▶ Recycling education at LL Sr. Assisted Living & Lakewood Apts. Gave apartment recycling totes to opt-in residents
- ▶ Met with Superintendent and principals for overhaul of recycling program
- ▶ Successful organic recycling at Corn Roast and Blue Heron Days festival





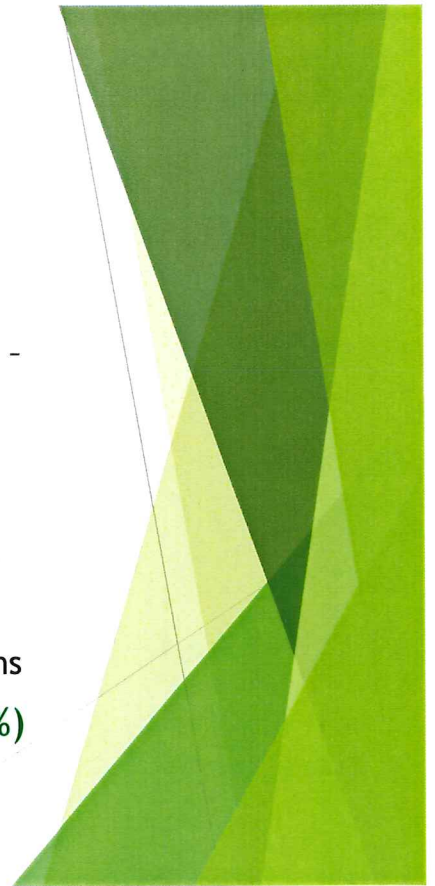
## 2015 Recycling Updates

### Budget

- ▶ On target with \$33,753 (41.3%) of \$81,674 for the whole year.
- ▶ Major expense: 2<sup>nd</sup> sea container for reusing furniture and recycling mattresses
  - ▶ Bridging for reuse of furniture
  - ▶ 2<sup>nd</sup> Chance Recycling for mattresses

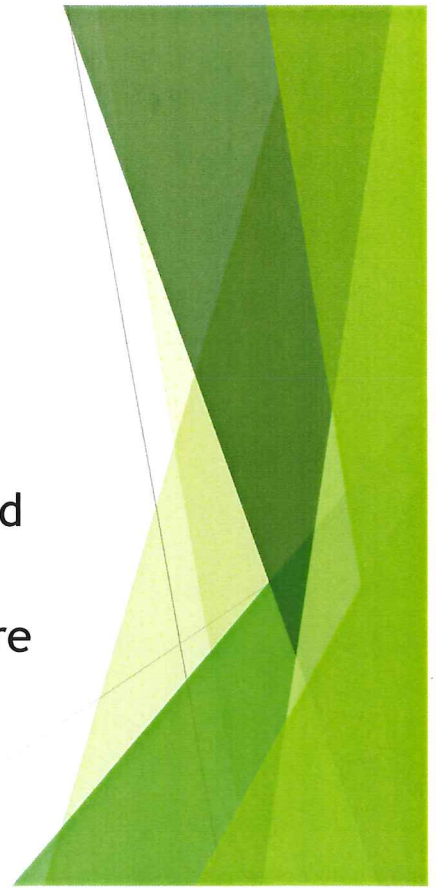
### Tonnages

- ▶ Recycling Saturday total - **72.2 tons**
  - ▶ 2014 (until Annual RD) - 32.4 tons
- ▶ Curbside Totals ~ 555.35 tons
  - ▶ Goal (until April) - 612 tons
- ▶ Total - **627.51 tons (103%)**

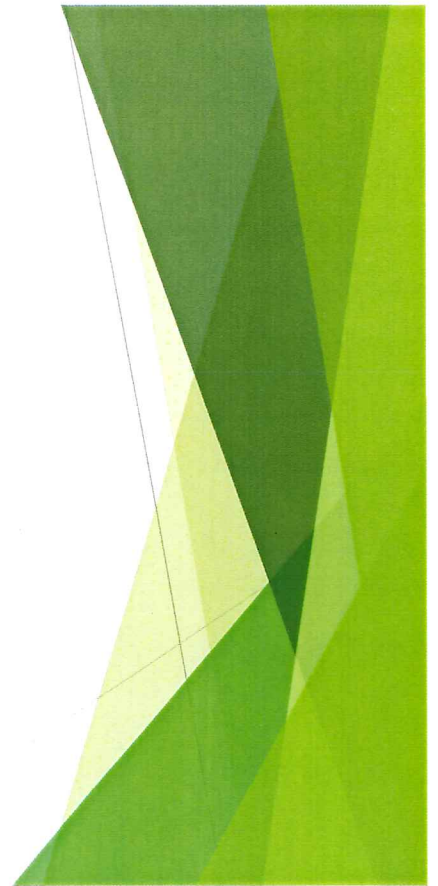


## From New to Normal: Organics Recycling at Lino Lakes

- ▶ With Captain Kelly's and LLPS' partnership, we added Organics Recycling
  - ▶ 1<sup>st</sup> with a 8-gallon bin, now 13 gallon step bin
- ▶ Took a while for the officers and staff to get used to
- ▶ City Hall added (3/1/15), New Creations Day Care (3/15/15), Public Works (3/31/15)

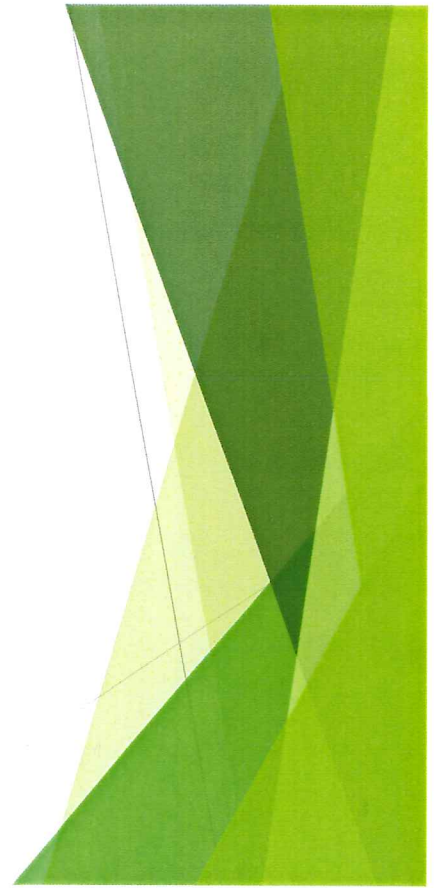


## Allied Waste/Republic Organics Recycling Dumpster



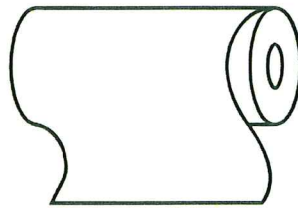


We Captured ~800 Lbs. of  
Organics for Composting

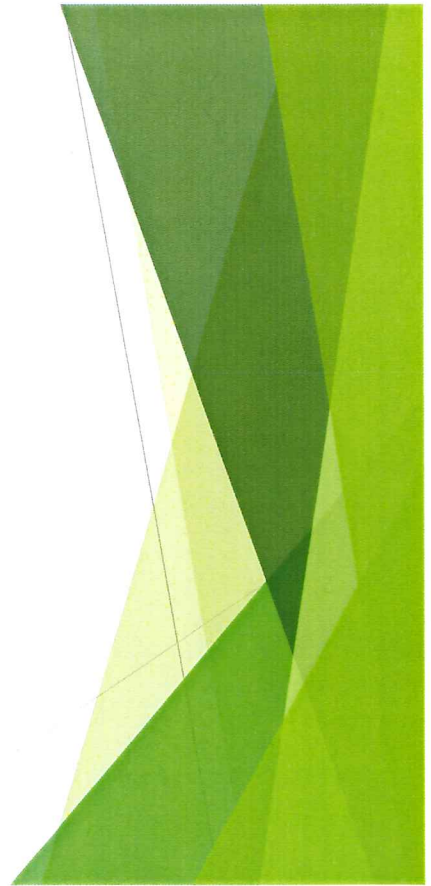


## Compost Everything!!! Education is Key

- ▶ Paper towel recycling is now available at City Hall and LLPS
- ▶ Compost Bin Sale to help residents with backyard composting
- ▶ Conversation on bringing drop-off organic recycling to yard waste sites (Bunker Hill & Rice Creek) has continued at Anoka County



**PAPER TOWELS  
ONLY**



## Lino Lakes Senior Assisted Living: First Successes



## Recycling Saturdays: More than Double the Tonnage from 2014





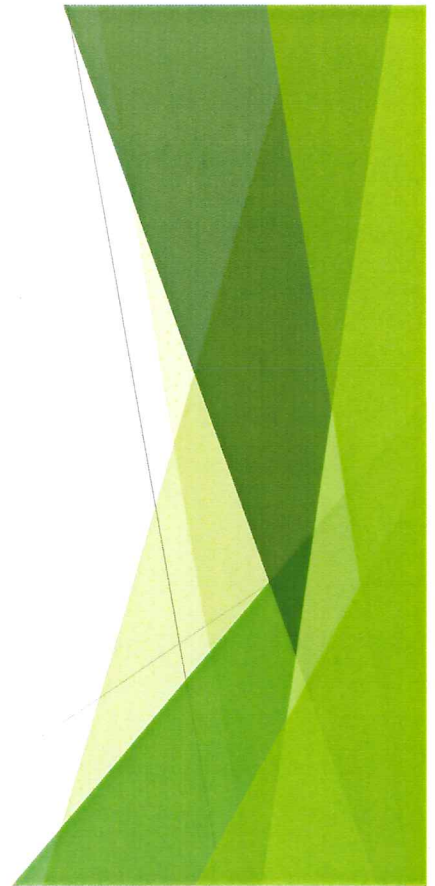
## Furniture & Mattress Recycling: Obstacles



## Special Event Volunteers: BHD, Earth Day, Arbor Days



# Clearwater Creek Neighborhood Cleanup





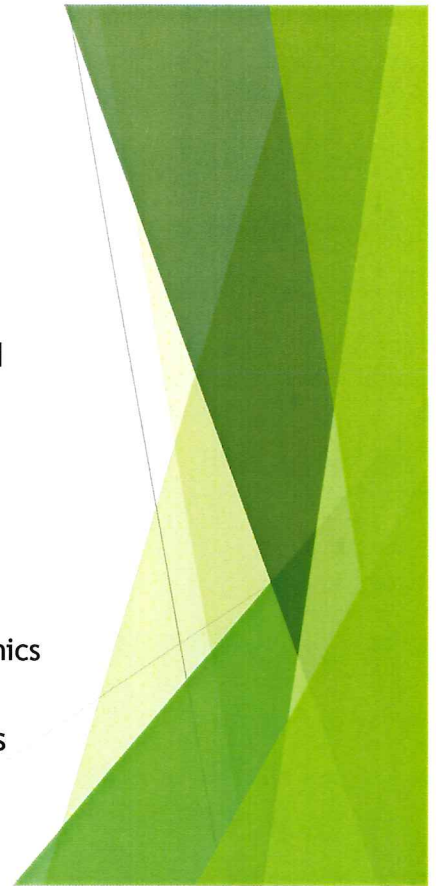
## Commercial for Recycling Starring...?





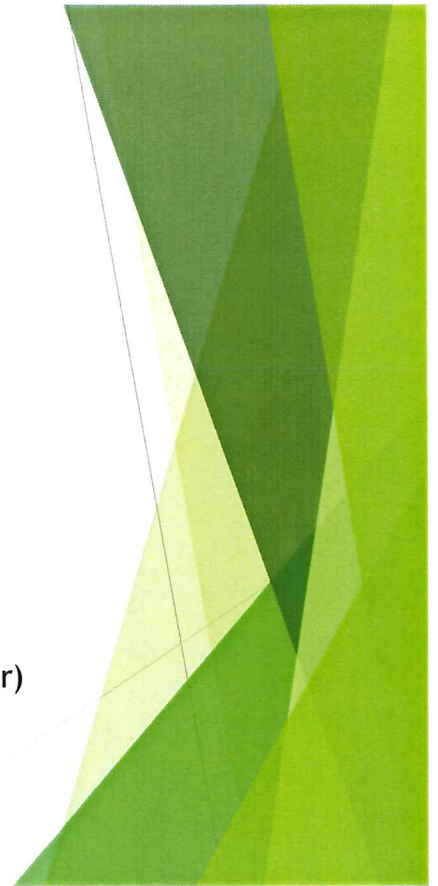
## What Can We Do Better?

- ▶ Apartments/MFUs need more education
  - ▶ Anoka County is a good resource
  - ▶ Recycling totes available
- ▶ Continue to work with CHS and ISD 12 administrators, teachers, and students
  - ▶ LLES will finally receive organics sorting table!
  - ▶ District is interested in having Anoka County do a walkthrough
- ▶ Start Recruiting volunteers earlier
  - ▶ Earth Day, Arbor Day, summer events
  - ▶ Communicate with Parks & Pub Works staff, and volunteers about organics recycling both prior and during the event
- ▶ Maintaining clearly labeled and monitored bins in food serving areas (back of house in public buildings)

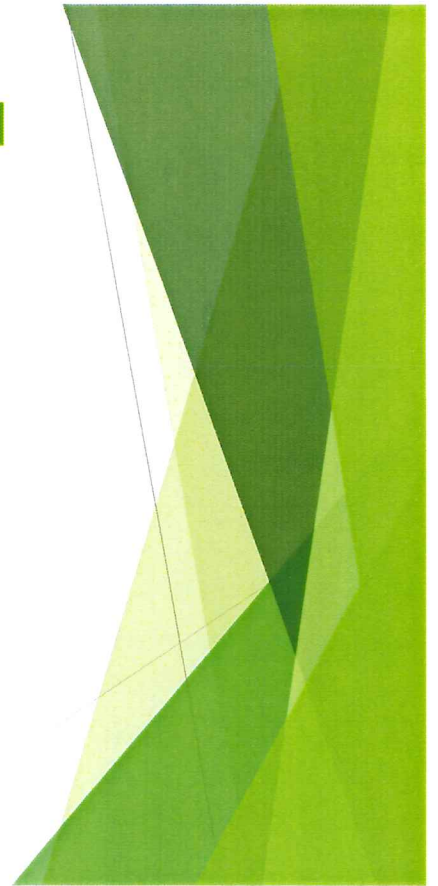


## With Our Success, We Are Looking To Do Better

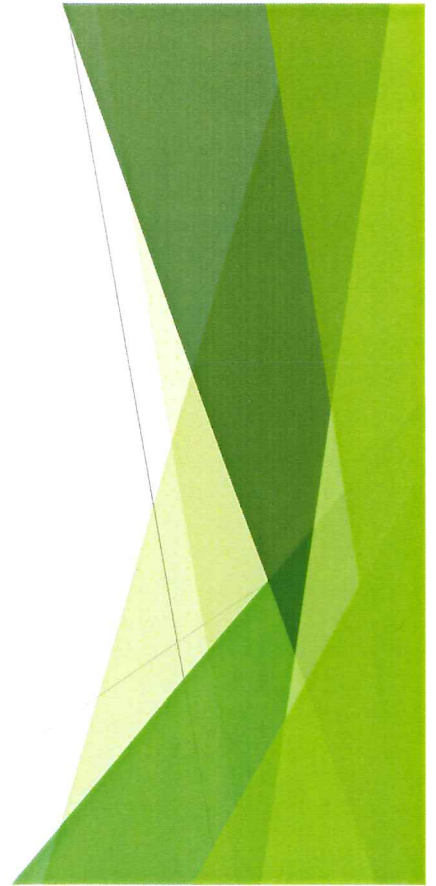
- ▶ Partnering with businesses, schools, and churches
- ▶ Recruit, recruit, recruit volunteers
  - ▶ Girl & Boy Scouts, Wargo Nature Center
  - ▶ CHS: Student Council, National Honor Society, FCCLA
- ▶ Giveaways for volunteers and Recycling Saturday drop offs
- ▶ Partnering with Parks & Rec for org. recycling at events
  - ▶ Movie in the Park, Corn Roast, Blue Heron Days Festival
- ▶ Partnering with Public Works for container setup and pick up
  - ▶ Corn Roast, BHD, Park recycling, special event recycling (Clearwater)
- ▶ Partnering with Anoka County for future initiatives like organic recycling drop off at Rice Creek compost site



Thank You to the Environmental Board  
For What You Do!



Thank You to Lino Lakes Residents!





## Thank You Recycling Partners

- ▶ Marty Asleson & Community Development Staff
- ▶ Lino Lakes Environmental Board
- ▶ Lino Lakes Parks & Recreation
- ▶ Lino Lakes Public Works
- ▶ Lino Lakes City Staff
- ▶ Anoka County Integrated Waste Management Staff
- ▶ Girl Scout Troops 55002, 56280 and Daisy Troop 56989
- ▶ Centennial High School: Student Council, National Honor Society, FCCLA

