

Minnesota Technical Assistance Program

# **Project Overview**

- MN State Statute
  - 60% recycling rate goal
  - 75% by 2030 for metro area agencies
- Status
  - 2012: Only 29% of agencies reported recycling data
  - Only 14% of agencies met recycling goal

# **Project Overview**

- Two main focuses
  - Provide site specific recommendations to four agencies in Lafayette Park area (St. Paul)
  - Develop a toolkit for agencies across MN

Section I AGENCIES AT LAFAYETTE PARK

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# Glossary

- Solid waste --- Trash
- **DHS** --- Department of Human Services
- **DLI** --- Department of Labor and Industry
- **DNR** --- Department of Natural Resources
- MPCA --- MN Pollution Control Agency
- Organics recycling --- Collect organics for commercial composting
- Solid waste management tax --- A tax on trash (but not recycling), charged by the state and some counties

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### Approach to waste analysis

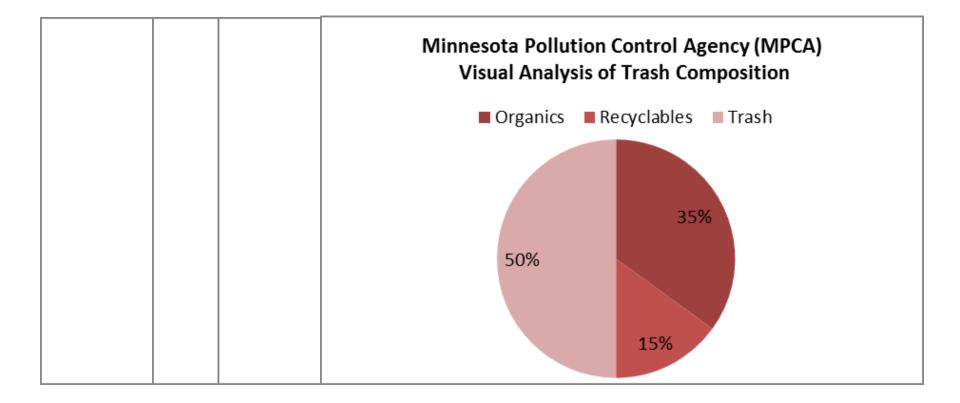
- Track down waste streams
- Conduct visual estimation of trash composition
- Identify opportunities to increase waste reduction, reuse, and recycling

### 2013 Agency Recycling Rates

Agency	Recycling rate	Population
DHS	54%	970
DLI	44%	375
DNR	52%	645
MPCA	52%	668
Mandated	recycling rate	60%
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### Visual estimation of trash composition



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### Solid waste reduction options

- Improve / launch organics recycling program
- Improve recycling program
- Offer reusables at cafeteria
- Reuse office supplies

# Improve / launch organics recycling program

Agency	Annual reduction	Potential increase in recycling rate	Implementation cost	Annual net savings	Status
DHS	47,100 lbs	14%	\$660	\$540	Recommended
DLI	34,900 lbs	17%	\$490	\$400	Planned
DNR	24,500 lbs	12%	\$700	\$1,630	Recommended

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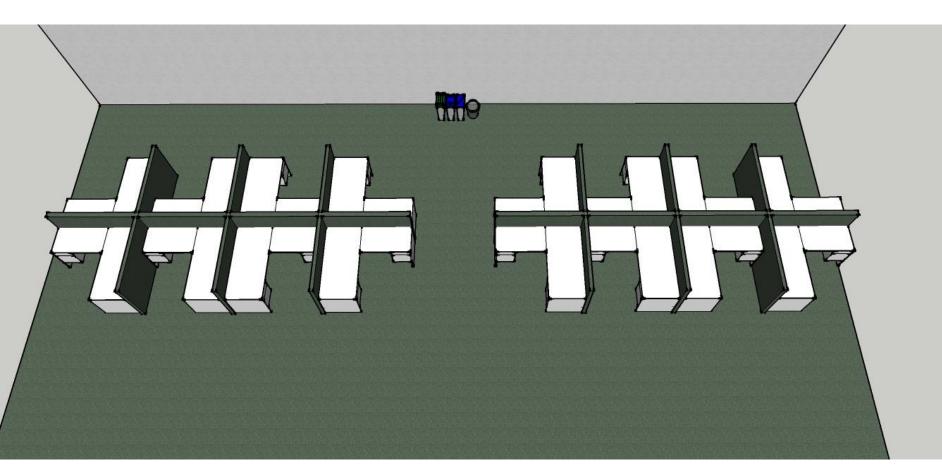
### Solid waste reduction options

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### Improve recycling program

- How?
  - Create centralized waste station and eliminate desk side waste baskets
  - Purchase color-coded bins
  - Update current signage
  - Improve education & communications program

### **Centralized waste station**



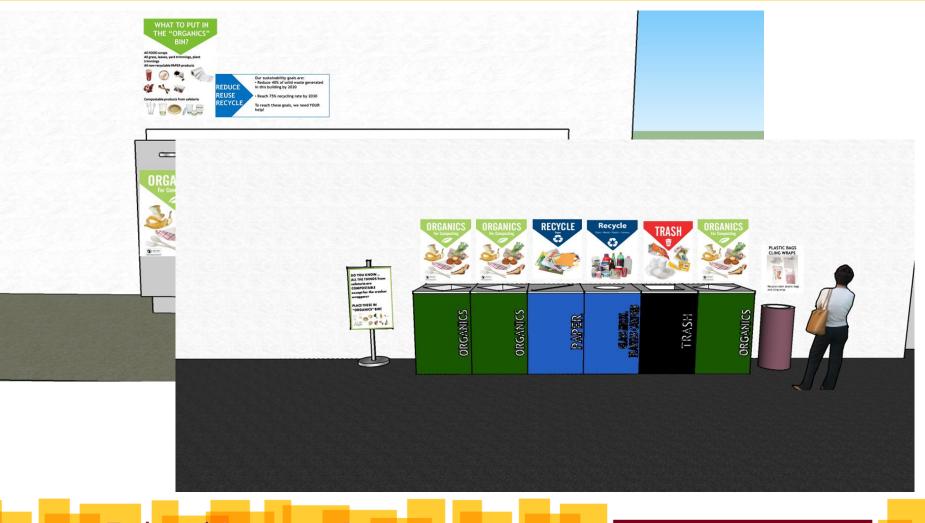
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### **Centralized waste station**



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### **Centralized waste station**



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### Improve recycling program

- How?
  - Create centralized waste station and eliminate desk side waste baskets
  - Purchase color-coded bins
  - Update current signage
  - Improve education & communications program

## Update current signage

Opportunities with current signage: information could be updated & more illustrative



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## Update current signage

 Suggested signage is from Recycling Association of Minnesota (RAM)



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### Update current signage

### WHAT TO PUT IN THE "ORGANICS"

Hey, I am not TRASHY... RECYCLE ME IN THE "ORGANICS" BIN!



#### **Compostable products from cafeteria**



rsity of Minnesota

### Improve recycling program

- How?
  - Create centralized waste station and eliminate desk side waste baskets
  - Purchase color-coded bins
  - Update current signage
  - Improve education & communications program

# **Education & communications**

- Tips for a successful employee engagement program
  - Communicate waste reduction goals to employees
  - Report progress and recognize achievements
  - Be interactive, creative and fun



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### Improve recycling program

Agency	Annual reduction	Potential increase in recycling rate	Implementation cost	Annual net savings	Status
DHS	23,500 lbs	7%	\$1,230	\$5,020	Recommended
DLI	17,400 lbs	8%	\$1,030	\$2,000	Recommended
DNR	14,700 lbs	7%	\$1,570	\$3,200	Recommended
MPCA	20,500 lbs	12%	\$2,080	\$4,060	Recommended

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### Solid waste reduction options

- Improve / launch organics recycling program
- Improve recycling program
- Offer reusables at cafeteria
- Reuse office supplies

### Offer reusables in cafeterias

Reusable takeout containers





http://erefdn.org/index.php/grants/fundedresearchinfo/beyond\_disp osables\_eco-clamshell\_reusable\_to-go\_program/

Agency	Annual reduction	Implementation cost	Annual net savings	Status
MPCA – DNR Cafeteria	7,700 lbs	\$9,300	\$17,400	Recommended

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### Solid waste reduction options

- Improve / launch organics recycling program
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### **Reuse office supplies**

- Set up a centralized ordering & purchasing system
- Encourage employees to reuse & take back extras
- Circulate extra office supplies with regional offices or with other agencies in Lafayette Park



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### **Reuse office supplies**

Agency	Annual reduction	Implementation cost	Annual net savings	Status
DHS	500 lbs	\$200	\$23,700	Recommended
DNR	350 lbs	\$200	\$15,750	Recommended

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### **Other recommendations**

Agency	Recommendation	Annual reduction	Implementation cost	Annual net savings	Status
DHS	Recycle plastic wrap & bags	100 lbs	\$0	N/A	Recommended
DLI	Downsize trash dumpster	N/A	\$0	\$4,200	Planned
DLI	Install 0.5 gpm faucet aerators in restrooms	48,750 gallons	\$70	\$150	Planned
DNR	Track & report all recycled materials	N/A	\$0	N/A	Recommended

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# Summary

Agency	Current recycling rate	Potential recycling rate	Annual reduction	Implementation cost	Annual net savings
DHS	54%	75%	71,200 lbs	\$2,100	\$29,300
DLI	44%	69%	52,300 lbs	\$1,600	\$6,800
DNR	52%	72%	47,300 lbs	\$2,400	\$20,600
РСА	52%	64%	28,300 lbs	\$11,200	\$21,500
	Total		199,100 Ibs	\$17,300	\$78,200

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## SOLID WASTE REDUCTION AT STATE AGENCIES **TOOLKIT**

Section II

# Table of contents

- Introduction
- Solid Waste Management Planning
- Data Tracking, Reporting; Information Gathering
- Solid Waste Reduction at Agency Buildings
- Education & Communications
- Additional Resources

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### **Personal benefits**

- Gain hands-on experience
- Work independently
- Develop interest in sustainability management

### Thank you!

### **Questions?**

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