

Let's Recycle Better, Together.



Today's Panelists



Amgen

Joanie Burns
Environment, Health, Safety
& Sustainability Manager



Raene Barber

Sustainability Engineer

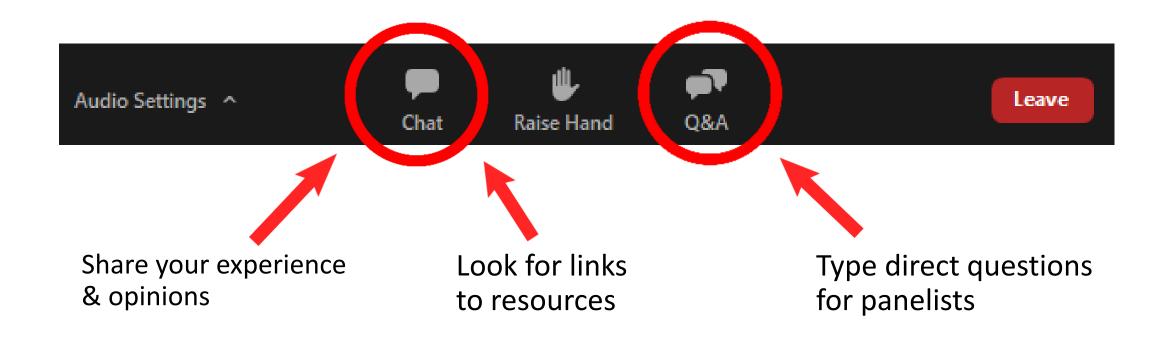
City of Lethbridge, AB





Join the Discussion

From your toolbar:







Removing the Structural Barriers to Recycling













Design Influences Behavior





Design to Guide Recycling Behavior











About Amgen















Where We've Been, Where We're Going





2008 – 2009 "Trash Can Free (TCF)" Initiative

Program Goals

- Reduce waste going to landfill
- Increase staff awareness about recycling opportunities
- Reduce Amgen's spend on waste collection and disposal
- Maintain a positive record as a corporate citizen in the community
- Promote a sustainable environment

THIS WAS A JOINT INITIATIVE
INVOLVING OUR FACILITIES
AND ENVIRONMENTAL
(JANITORIAL) SERVICE
PROVIDERS AND AMGEN'S
EHSS DEPARTMENT





Original Program Scope

- Eliminate trash and recycling pick up in offices and cubicles
- Place trash and recycling receptacles in central locations
- One location for approximately every 25 people
- Place mini trash cans at desks for tissues, candy wrappers, etc. –
 individuals would be responsible for emptying these
- In-office container (box) for paper recycling maintained –
 individuals would be responsible for placing these outside their
 doors to be emptied by janitorial staff twice per week

Phased roll-out

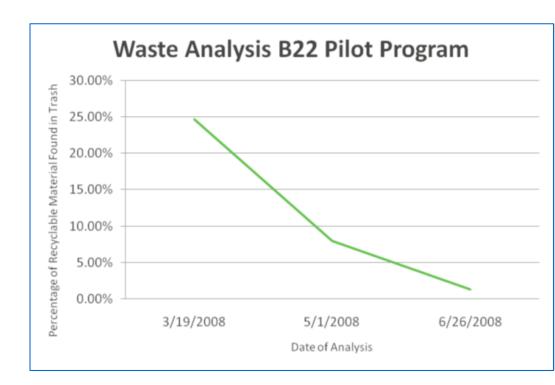
- Pilots at two sites (CO and CA)
- Phase I full implementation at four sites (CO, CA, RI, MA)
- Phase II all other North America sites following "janitorial vendor due diligence"





CA Pilot Program

- TCF zones rolled out in four areas of one building (Building 22)
- Removed desk-side trash and commingle recycling; desk-side boxes for paper recycling maintained
- Approximately 75 employees participated; each employee received:
 - Mini trash can
 - Thank You note
 - Map showing centralized trash/recycling stations
 - Trash Can Free brochure explaining the program in detail
 - "Trash Can Free Zone" signage to be placed at the individual's cube or desk

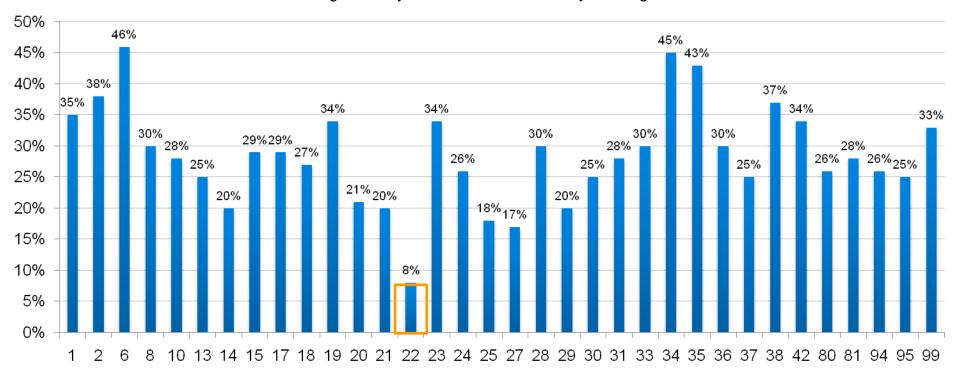




The Results of the ATO Building Waste Analyses Found That Nearly 30% of Trash Was Recyclables

Q2 '09 Waste Analyses by Building

Percentage of Recyclables Found in Trash by Building



B22, which had 8% as compared to average of ~30%, had a Trash Free Zone program in place since March of 2008.



Estimated Labor Cost Savings (2009)

| Site | Description / Size | Annual Savings |
|------|---|----------------|
| CA | Corporate HQ: offices, clinical and commercial manufacturing, research and process development labs 34 buildings, ~ 7,500 to 9,000 people on site/day | \$374,000 |
| СО | Manufacturing 10 buildings, ~ 1,100 people on site/day | \$67,200* |
| RI | Manufacturing 6 buildings, ~ 1,000 people on site/day | \$55,200 |
| MA | Research and Development labs 1 building, ~ 200 – 300 people on site/day | \$28,800 |



^{*} The program had been fully implemented at the time these figures were pulled together and the CO site was realizing savings of \$5,600/month

Trash Free Zone (TFZ)
Implementation at CA Site

Phased Rollout by Building

- Phase I (Blue):
 Nov. 16th Dec. 4th
- Phase II (Green):
 Dec. 7th Dec. 11th
- Phase III (Yellow):
 Dec. 11th Dec. 31st

STAY THE COURSE!





Containers and Communications... Through the Years



2008 – 2009 Initial Roll-Out (the early days)







Program Maturity (circa ~ 2011 - 2012)







2017 Move to Single-Stream Recycling

Introducing Single Stream Recycling



Making recycling easier, two bins at a time

No need to sort paper from other recyclables, it can all go in the same bin

Before



After



See the new signs around campus for guidance







2019 Addition of Post-Consumer Compost





Lessons Learned ("Pro Tips")



Key Take-Aways



Money Talks, Data Tells the Story

Take the time and make the effort to gather all the information you need – it will be worth it!

Make a strong business case by presenting <u>all</u> of the benefits: environmental, financial, health/wellness, pest control, etc.

Gain buy-in by sharing information not only with decision-makers but the affected stakeholders

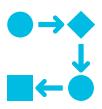


It Takes a Village

Engage your service providers (e.g., custodial), Facilities, Purchasing, EHS/Sustainability – anyone who can help and/or should be involved in the planning

Recruit champions to help with outreach and education

Leadership support/sponsorship will help with any bumps in the road



Change is Hard

Pre-planning is crucial – anticipate everything, even the things you think will <u>never</u> happen

You will never please everyone! Listen to, but don't guide your decisions by, the vocal minority

Communication, communication, communication



The Fun Never Ends







Photos taken: January 2023



Live Poll #1

Which best describes your current collection arrangement for deskside / workstations? (check only one)

- Custodial services trash / waste only
- Custodial services recycling only
- Custodial services both recycling and trash / waste
- Custodial only services centralized / common area bins
- Other (share details in the chat)





The Transition to Centralized Waste Collection

Raene Barber, Sustainability Engineer
City of Lethbridge



Introduction and Agenda

- Targets and Stats
- The Waste Bylaw
- Transition to Centralized Collection
- Lessons Learned

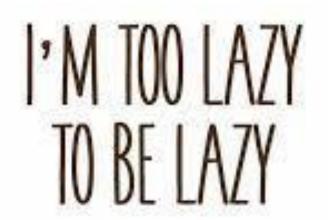


Reference: Naapi Katoyiss Seeds and Restoration KEPA (naapisgardenkepa.com)



So Many Benefits!

- Save on caretaking time and costs,
- Encourage waste diversion,
- Reduce garbage can clutter in your space,
- Provides consistency,
- And, it's a good reason to get up and walk around!

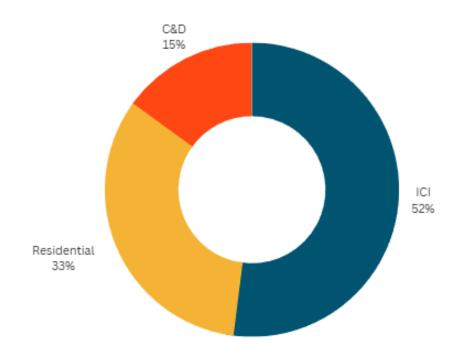






The Targets and Stats

Waste Generation



Waste Reduction





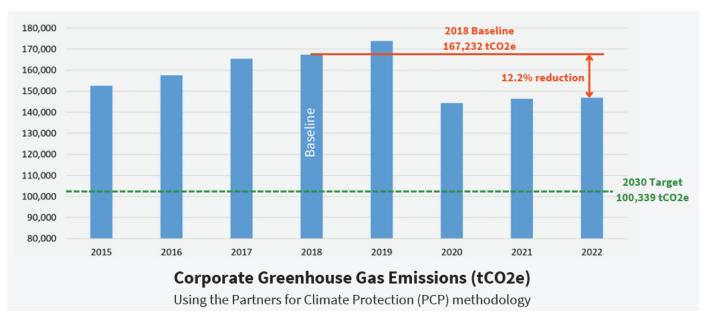


The Targets and Stats

Corporate GHG Emissions



40% from 2018 baseline 2030





The Waste Bylaw

Strategy implementation timeline

- 2008 Waste Diversion/Prevention Master Plan
- 2013 ICI Waste Diversion Strategy Initiated
- 2015 Waste Diversion Strategy approved
- 2018 Waste Diversion targets revised
- Partial implementation of Mandatory Recycling for ICI/Surcharges. Full Implementation put on hold due to COVID-19.
- Full implementation of Mandatory Recycling and Mandatory Organics for ICI/Surcharges
- 2030 45% Waste Diversion Target for ICI and C&D sectors

Mandatory recycling and organics for the Industrial, Commercial, and Institutional (ICI) and Construction and Demolition (C&D) sectors.

Requires access to recycling and organics containers, with equal convenience to garbage containers.



Enforcement



March 2020:

 \$50/tonne surcharge if load contains >25% designated materials

February 2023:

 Educational surcharge note issued for loads containing >25% designated materials including organic

September 2023:

 \$50/tonne surcharge if load contains >25% designated materials including organics



cardboard & paper

newspaper, catalogues, magazines, mixed paper, boxboard, corrugated cardboard



recyclable wood

dimensional lumber, pallets, tree pruning, and other items that are made of raw and un-processed wood



asphalt shingles

asphalt shingles from new construction or re-roofing



scrap metal

general scrap metal including appliances and structural or decorative metal and metal items suitable for recycling



drywall

clean gypsum wall board from new construction suitable for recycling



concrete

concrete foundations, sidewalks, brick, rubble, gravel & sand suitable for recycling



brick & masonry block

structural or decorative, with or without mortar, crushed or whole



asphalt pavement

road asphalt





organics

food waste, yard waste, food-soiled paper products and other wood/paper products (e.g. popsicle sticks, shredded paper)



City Compliance





















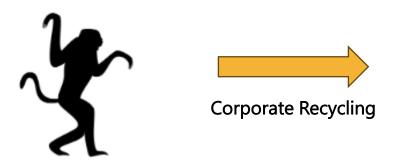












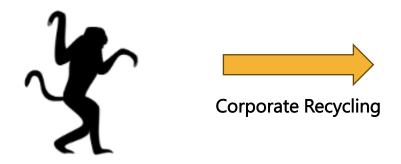




- The pilot facilities must have effective Recycling Captains and the population using the bins should be diverse (office and operations staff).
- 3-bin station and outdoor recycling cart provided to each pilot facility.









- Visual audits conducted.
- Feedback gathered from employees.
- Standardize signage and waste management for City facilities.





Cardboard







- Mixed recycling implemented at 30 additional facilities.
- Recycling pickup changed to weekly.
- Recycling captains still responsible for transferring contents to recycling cart.























know the

& ORGANICS













- In 2017, 40% of waste from City Hall could be diverted from the landfill.
- 37% of the total weight was organic material.
- General waste: \$115 / tonne
- Recyclables: \$10 \$75 / tonne
- Source separated organics: \$60 / tonne
- \$50 / tonne surcharge potential







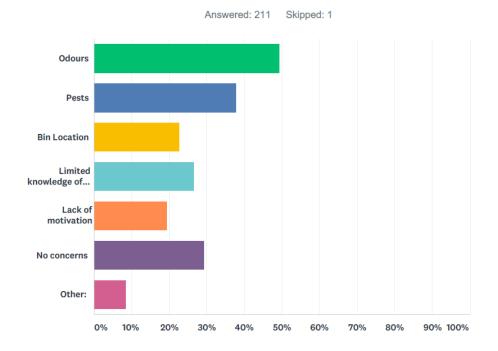




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- **Pilot Program Initialization (2019)**
- 5 City facilities selected.
- Separate contracts executed for caretaking and hauling services.
- Organics at centralized locations, in bathrooms for paper towel only, and in individual offices.



Q6 What are your concerns related to corporate organics collection? Please check all that apply):





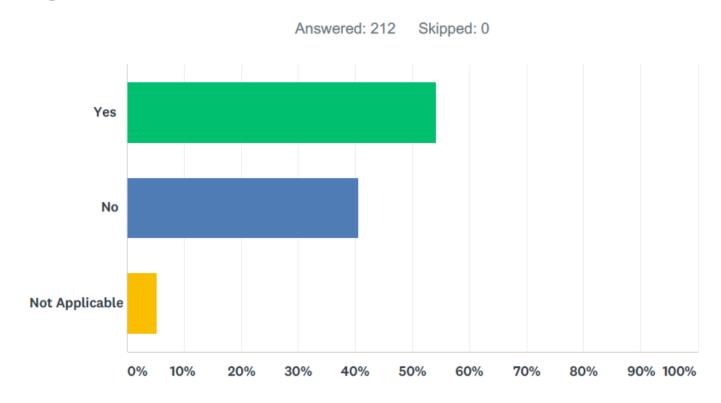




- Pilot Program The Grey Area
- COVID-19 pandemic put the program on pause.
- Employee surveys conducted during this time.



Q8 Would you be willing to part with your individual office garbage can with the introduction of the corporate organics pilot to your office space? Garbage cans will remain available for use in all communal areas.





Why wouldn't you be willing to forfeit your individual office garbage can?

Would still have some materials that are not compostable or recyclable.

Walking to a communal garbage can is not an efficient use of time.

Convenience.







Centralized Waste Collection

Sustainability is pleased to introduce new hanging baskets for your office garbage, organics, and recyclables!

The new bins have limited capacity to encourage waste diversion to recycling streams and reduce waste production, as per the Business Waste Diversion Strategy.

Lids on the garbage and organics waste baskets reduce odors and hide unsightly bin contents.

Starting January 1, 2023, it is your responsibility to empty your green and black bins into the centralized waste stations and the blue bin recyclables into the blue carts.

Thank you for your cooperation and for contributing to the City's target of reducing commercial and industrial waste in Lethbridge by 45% by 2030.













Full Implementation (2023)

- Officially reinstated in 2022.
- An additional 40 facilities were added to the program.
- 45 City facilities currently have recycling and organics programs with centralized collection.













Full Implementation (2023)

Facility site tours

Program set up

Caretaking

Education





January 2023: caretaking staff no longer emptying individual office bins





















Our Next Steps

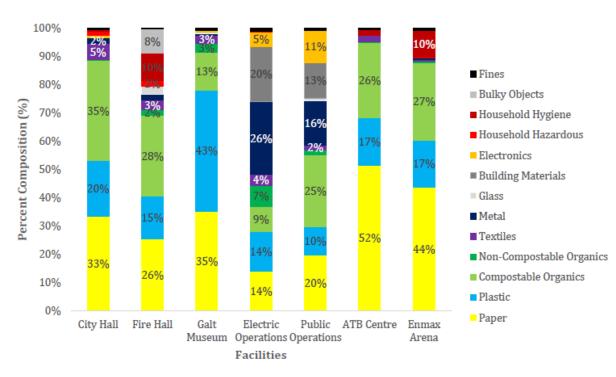


Figure 3-19: Composition of the Garbage Stream from Various City Facilities (Winter 2020)

| City of Lethbridge Diverted Materials | | |
|---------------------------------------|----------------------|----------------------|
| Year | Recyclables (tonnes) | Organics (tonnes) |
| 2019 | 30.26 | 1.73 |
| 2020 | 25.62 | 2.90 |
| 2021 | 31.82 | 0 |
| 2022 | 20.64 | 1.81 |
| 2023 (YTD) | 19.79 | 13.08 |



Tips and Tricks

- Economic benefit of diverting waste (tipping fee for garbage > tipping fee for recycling or organics) and \$50/tonne surcharges for noncompliance
- Removing individual office waste collection can save caretaking costs and providing people with a smaller garbage bin can encourage diversion
- Clear signage and consistent bin types helps with program understanding



Thank You! Any Questions?



Live Poll #2

If Centralized system is in place:

What measurable impact(s) have you experienced? (check any that apply)

- Increase in material recovery
- Less contamination
- Custodial labor savings
- Direct cost savings (hauling costs, eliminating bag liners, etc)
- No significant change to any of the above
- Actually made things worse (share details in the chat)
- Other (share details in the chat)





Live Poll #3

How has recycling / diversion been impacted by post-pandemic changes? (check any that apply)

- Less overall waste generation because fewer people in office
- More waste being generated per person
- Lower diversion (recycling/ compost as % of total waste)
- Higher contamination rate
- No significant changes
- Other (share details in the chat)





Next Up...







Today's Program Online

- Recording
- Presentation slides
- Links to Resources



Advancing Recycling Blog Series

- Implementing centralized collections
- Signs above bins improve recycling
- Creating uniform bin standards
- Images vs words on signage

Visit: buschsystems.com/blog







Archived Webinar Recordings

- -Food organics collections
- -Public space recycling
- -Strategic planning
- -Reuse & waste prevention

+ more

Visit: buschsystems.com/blog







December 5 & 6, 2023

Topics:

- Local govt. communication strategies
- Glass recycling
- Extended Producer Responsibility

Learn more at: nrcrecycles.org/2023congress

- Silver lining of China Nat. Sword
- Single use plastics
- Food service-ware Reuse systems
- Environmental & social justice







Thank You to Our Panelists!



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Raene Barber

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City of Lethbridge, AB



Please Share Feedback to Presenters

Post-Webinar Survey:

- Prompt at end of program, or
- Look for Email tomorrow



