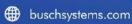


Let's Recycle Better, Together.

Lessons Learned for Parks & Streetscape Recycling

April 20, 2021

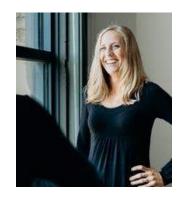






Today's Panelists









Alec Cooley
Senior Advisor
Busch Systems
Charleston, SC

Christa Rust

Senior Program

Director

Recycle Everywhere

Winnipeg, MB

Emily Willobee

Policy & Programs

Planner

Dist. of West Vancouver

Vancouver, BC

Blair Pollock

Planner

Orange County Solid
Waste Management
Chapel Hill, NC

Amy Lego

Executive Director

Operation Downtown

Des Moines, IA





Agenda

Pt 1: Case Study Presentations

- Recycle Everywhere, MB
- Des Moines, IA
- Orange County, NC
- West Vancouver, BC

Pt 2: Group Discussion

- Bin design features
- Operational issues
- Education / awareness
- How / where to place bins
- Budgeting





Use Your Dashboard

Step 1:

Step 2:

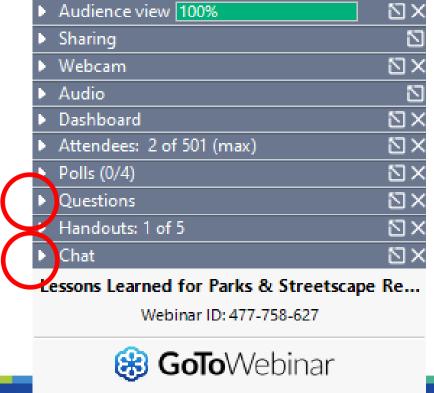
Expand dashboard

Click button to expand



Type direct questions for panelists

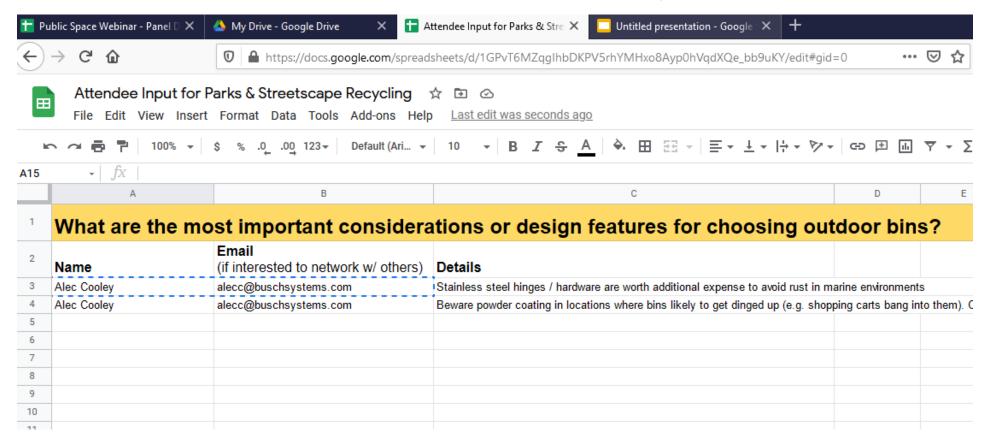
Look for links to resources







Share Your Pro Tips!



Find link to Google sheet in Chat box





Participate in Survey - Outdoor Recycling Trends

Early Results:

- 68% have uniform style guidelines
- 70% have uniform color standard
 - 82%: Recycling = Blue
- 30% have trash & recycling paired at all locations
 - 29% have paired at less than half of locations



Look for email after the webinar with link to the survey





Recycling in Parks & Streetscapes









CBCRA Recycle Everywhere

Christa Rust, M.N.R.M. Senior Program Director

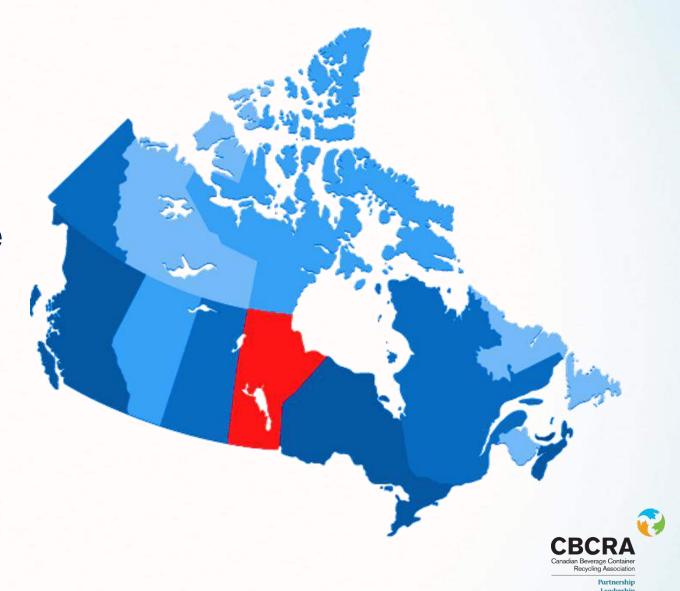


Stewardship



About Us

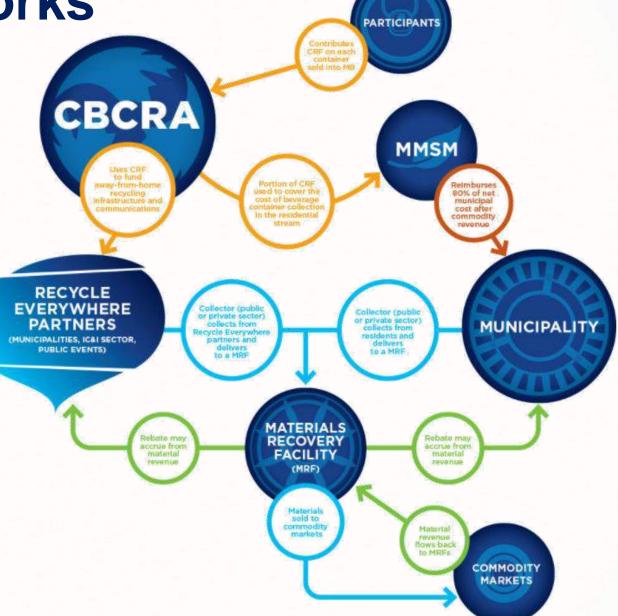
- Canadian Beverage
 Container Recycling
 Association (CBCRA)
- Operates the Recycle Everywhere program
- Away-from-home beverage container recycling





How It Works

- Flow of CBCRA funds
- Flow of MMSM funds
- Collected Materials
- Flow of Material Revenue







Public Space Recycling



- Up to 30% of beverages consumed away from home
- Convenience is key
- Recycle Everywhere bins for public spaces and events free of charge
- Education is more important than ever





Bins In Action















Public space recycling bins throughout Manitoba Municipalities!







Bin Results

PUBLIC SPACE RECYCLING BINS



CBCRA also provides three other types of bins that help make it convenient for Manitobans to collect their empty beverage containers. These include:

At Home Bin:

244,387



Mini Bin:

130,754



Bin Bags:

97,503







Recovery Stats

 Recovery rate from 42% in 2010 to 68% in 2019

 PET beverage bottle recovery rate was 77% in 2019



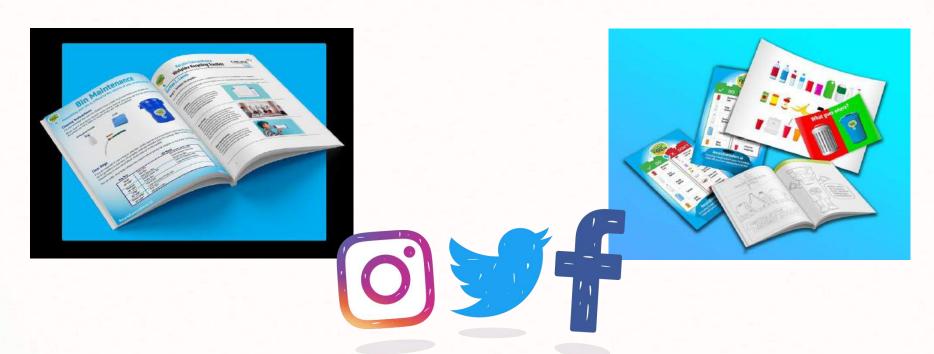
FROM THE ROAD EACH YEAR.





Tools & Resources

www.recycleeverywhere.ca



www.youtube.com/user/RecycleEverywhere





Contact



Christa Rust M.N.R.M Senior Program Director CBCRA Recycle Everywhere

Email:

crust@cbcra-acrcb.org





Recycle DSM Amy Lego

Executive Director, Operation Downtown

April 20, 2021

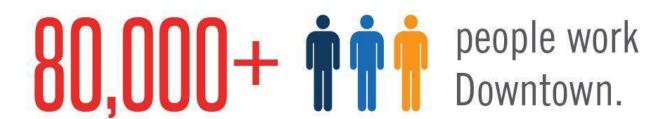






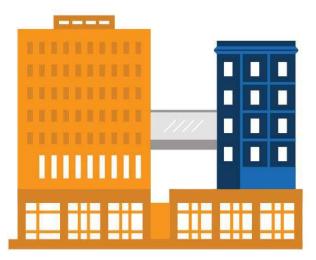


ABOUT DOWNTOWN DES MOINES





12,000+ people live Downtown.



More than four miles of connected skywalks.



\$3 billion of capital invested in past 10 years.



miles of recreational trails for walking, running and biking.





PUBLIC SPACE RECYCLING PILOT PROGRAM



87%

of the material collected was recyclable*

98%

was "perceived" recyclable*

* Audited by the Iowa Waste Exchange, Dept. of Natural Resources during the pilot program



DISTRICTS & PUBLIC SPACE RECYCLING





- Boutique Retail District
- Sculpture Park
- Event Center
- Nightlife District
- Central Business Core









Recycle DSM

Establishing a cleaner and greener Downtown Des Moines (DSM).









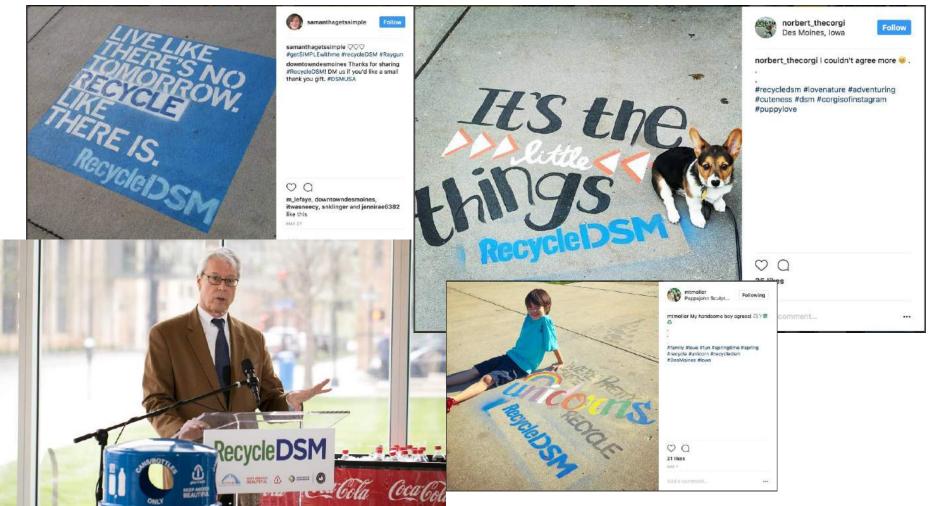








EDUCATION & MARKETING







PARTNERSHIPS & OPERATIONS













QUESTIONS?













Live Poll #1

What is the #1 challenge your recycling program faces?

- Vandalism / wear & tear
- Low recycling participation
- Contamination
- Costs / poor economics
- Other





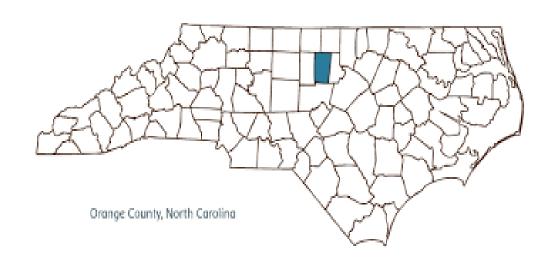
Away from Home Recycling

Blair L. Pollock, Solid Waste Planner Orange County NC 4/20/21 Busch Seminar

bpollock@orangecountync.gov

Orange County, NC (founded1752)

148,000 total pop.400 sq. miles3 incorporated towns

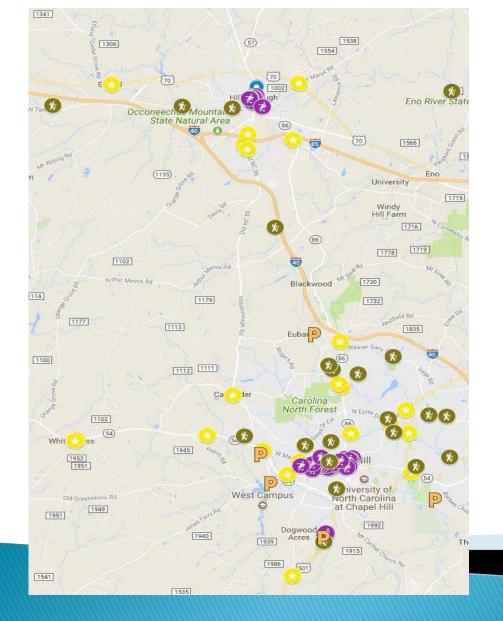


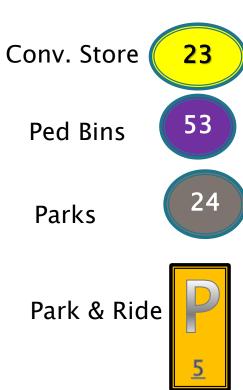
- Carrboro 21,000 (former mill town, now "very hip")
- Chapel Hill 64,000 (home of UNC Tar Heels)
- Hillsborough 7,000 (County seat, dates to 1754)
- Overall Population is 62% 'urban'

Orange County AFH Overview

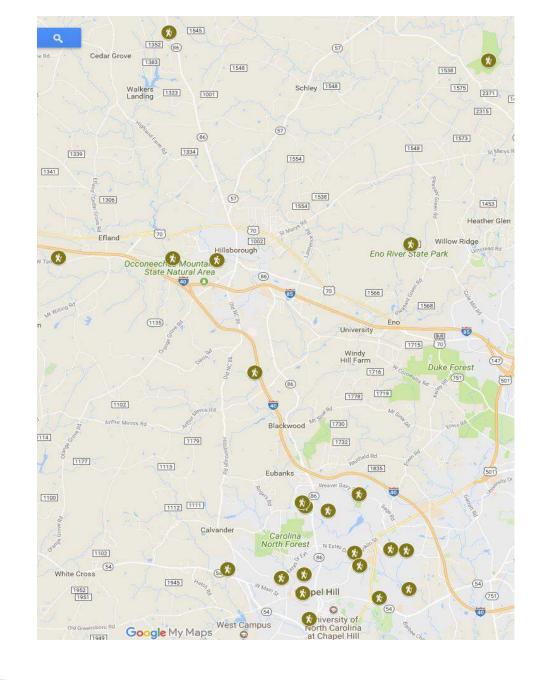
Type	Number	Comments
Park & Ride Lots	5	Includes one UNC "Big Belly' with remote communication. Reduced from daily to once a week collection trip
Convenience Stores (etc.)	23	Using mostly 35 gal carts surplus from govt. bldg. program. Custom bins at NCDOT. One car wash. (Others said 'no')
Parks	24	Throughout County not including UNC, Duke or TLC natural areas. Carrboro collects its own & consolidates at Public Works for \$ savings from County SWP Fee
Pedestrian Bins	53	In downtown areas of all 3 Towns. County full cost fee= \$10/month/bin. Towns got DEACS grants for all bins. Varying styles in each Town.
Total	105	Opportunities abound for recycling

Map of AFH World-Orange County





Town or County **Parks** with Recycling (24) - notincluding UNC, Duke or other private, NGO-held reserves



Parks

- ▶ A wide variety of parks served Town, County, Regional, State
 - 24 total
- Cooperative relations with Towns to site & service containers





Pedestrian Bins

- ▶ Each of 3 towns made its own bins choices.
- ▶ Each received NC DEQ 80% grants for all bins.
- All contract with Orange County for service at \$10/bin/month
 full cost recovery (c. 2015).
- Total bins in service:

Town	Bins
Carrboro	10
Chapel Hill	30
Hillsborough	13
Total	53

Bin Costs (no installation labor)

- Carrboro est. \$1,400/ea. Victor Stanley (steel) DEQ grant (est.) ~ \$11,200
- Chapel Hill \$917/ea. Nex-Terra (HDPE)
 DEQ 2 grants) ~Total \$23,400
- Hillsborough Victor Stanley \$1,318/ea.
 DEQ grant ~\$13,750 (recycling cans only, not the paired trash cans)

Carrboro Bins (~ \$1,400/ea.)





Chapel Hill Bins (\$917/each. 1,200 milk jugs/bin)



Chapel Hill bins in action





Wait, where did you come from?



Hillsborough Downtown Combo \$2,200/each (not installed cost)



What's in the Pedestrian Bins?

- Sampled: 48 bins in 3 towns March 2018.
- By Weight: 79% recyclable (includes paper).
- ▶ By Unit (no paper): 52% recyclable cans & bottles
- Of 1,541 'units' counted: 804 bottles or cans.
- Of the 737 'non-bottles or cans': 499 cups 68%

What's in the bins by Town.

(Excruciating detail - Does the different bin type matter?)

	Carrrboro	Sample Size	Chapel Hill	Sample Size	Hillsborough	Sample Size	TOTAL		
collection date and # bins	3/8/2018	10 bins	3/8/2018	26 bins	3/2/2018	12 bins	48	bins	
% recyclables by weight w/ paper	70%	41.1 lbs	88%	71.9 lbs	76%	33 lbs	79%	146	lbs
% NON recyclables by weight	30%	17.5 lbs	12%	9.5 lbs	24%	11.4 lbs	21%	38.4	lbs
% recyclables by unit NO PAPER	50%	203 bottles & cans	61%	396 bottles & cans	39%	205 bottles & cans	52%	804	units
% NON recyclables by unit	50%	202 = (109 cups+ 93 other)	39%	250 = (152 cups+ 98 other)	61%	285 = (140 cups + 145 other)		737	units

Streetside Recycling Program District of West Vancouver, BC, Canada



Emily Willobee, Policy & Programs Planner, Engineering Services

prepared for Parks & Streetscape Recycling Webinar hosted by Busch Systems, April 20, 2021



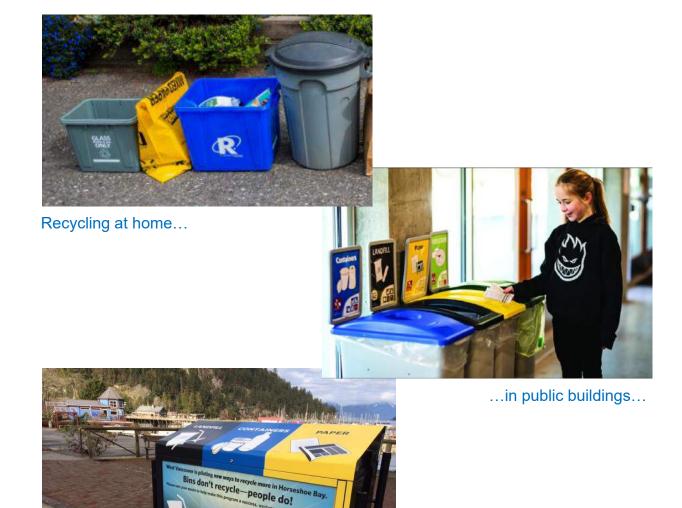
Presentation Outline

- 1. Program summary
- 2. Service areas: pilot & full expansion
- 3. Finance: capital and operating
- 4. Collection processes
- 5. Bins don't recycle, people do
- 6. Monitoring diversion



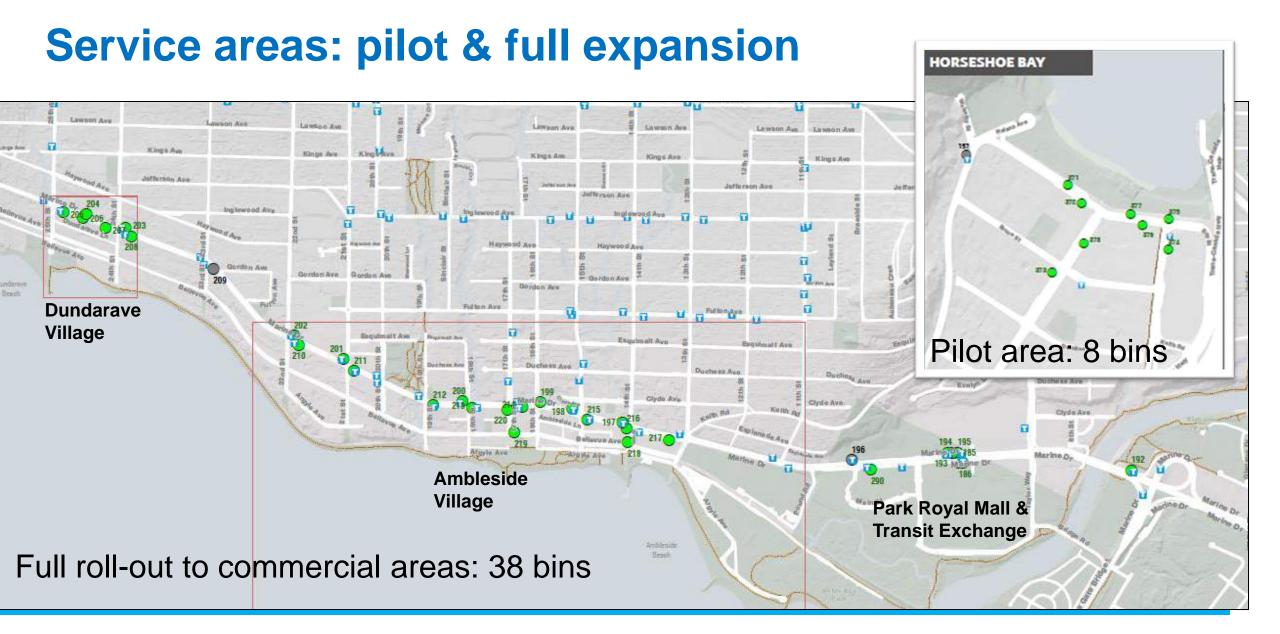
Program summary

- Designed based on successful residential collection program
 - High participation
 - Low contamination
 - Multi-stream: Paper, Containers, Glass, Garbage, Food Scraps & Yard Trimmings
- Three stream stations: Garbage, Paper, Mixed Containers
- Bin choice: Envyrozone Hazelton 3
- Commercial streetsides only (not parks)
- Prioritize resident & business engagement to maximize program impact











Finance: capital and operations

Solid Waste Utility

- Entirely separate from municipal General Revenue funds
- Assumed financial responsibility for public realm waste collection in 2016
- Resulted in stronger collaboration between municipal departments

Capital costs

- Bins: Approx \$100,000 over two years
- Bin wraps: Approx \$30,000

Operating costs (servicing, data, education)

- Pilot: \$70,000
- On-going annual: \$220,000
- Education materials: <\$5000



Collection processes

Pilot: In-house

- Parks Dept staff
- Clear liner bags
- Converted leased pick-up truck
- 4yrd dumpsters at Operations Centre
- 5 consultant waste audits



Bin replacements were staged over several weeks, completed using a crane truck





On-going: Contracted out

- Growing City
- Clear liner bags, rigid plastic interior bins
- Isuzu box truck with mega bags
- Delivery direct to processor(s)
- Well-trained staff and "gamification" equates to excellent data collection
- Servicing frequency fluctuates seasonally



Bins don't recycle, people do!

To make it as easy as possible for residents to recycle correctly, the colour-coded bins will match West Vancouver's residential recycling.

Help us make this

Letter to businesses

Council & staff FAQ

- Transit shelter ads
- Utility bill insert
- Web page and social media
- Student video contest
- "Waste Evaders" game
- On-going...



REASONS TO SIGN UP FOR MYDISTRICT

2019 UTILITY RATES

Waste Evaders

West Vancouver's Public Space Recycling Challenge

Open to students from Kindergarten to Grade 12 in West Vancouver. Contest details and how to enter:

westvancouver.ca/student-video-contest-2019.

Deadline for submissions is April 15, 2019.

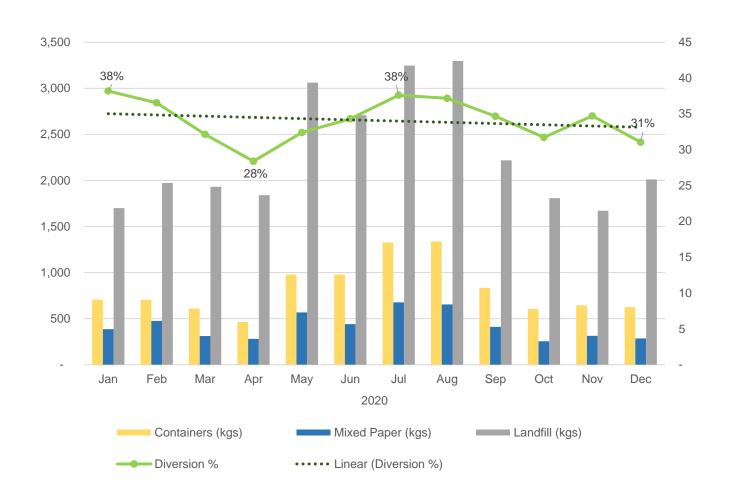
Monitoring waste diversion

Pilot targets

- 50% garbage diversion
- less than 25% contamination (especially containers stream)

Full roll-out results to date

- Recovery: 75 tonnes since Q2 2019
- Diversion/capture: 35% average*
 *Across all contractor-collected sites:
 38 multi-stream units, 22 garbage-only units
- Contamination rate: variable
- Seasonal volumes: highly variable







Thank you.

Emily Willobee, Policy & Programs Planner ewillobee@westvancouver.ca

Colette Scott-Sibley, Solid Waste Contract Administrator cscottsibley@westvancouver.ca

westvancouver.ca/collection



Live Poll #2

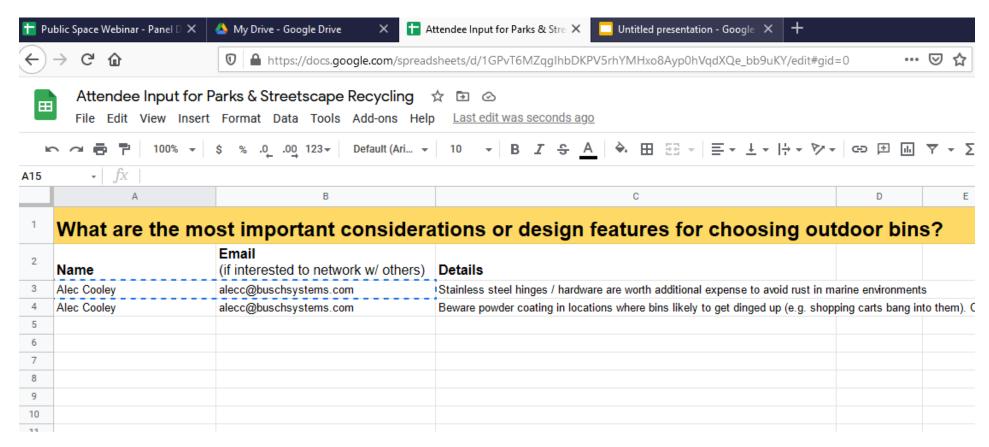
What are your priorities for discussion topics? (pick 2)

- Bin design features
- Operational issues
- Education / awareness
- How / where to place bins
- Budgeting





Share Your Pro Tips!



Find link to Google sheet in Chat box





Best Practices to Address Contamination















Labels & Signage









Labels & Signage









Labels & Signage



















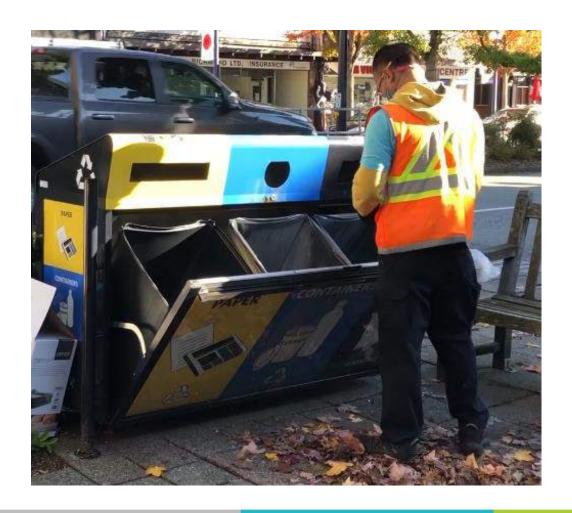










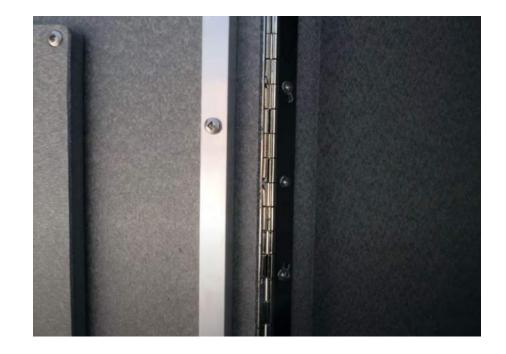


















Live Poll #3

What is the #1 motivation for recycling in parks/ streetscapes?

- Increase recycling / diversion
- Save on trash disposal costs
- Project community's values
- "Marketing" for recycling
- Demand from the community





Placement









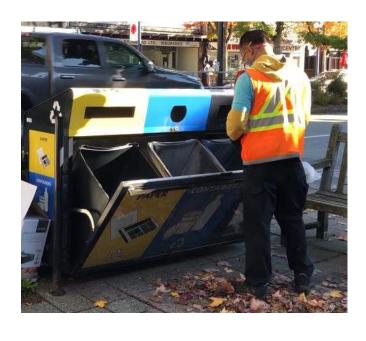


Placement









Operational Issues









Operational Issues: Cleaning









Operational Issues: Maintenance



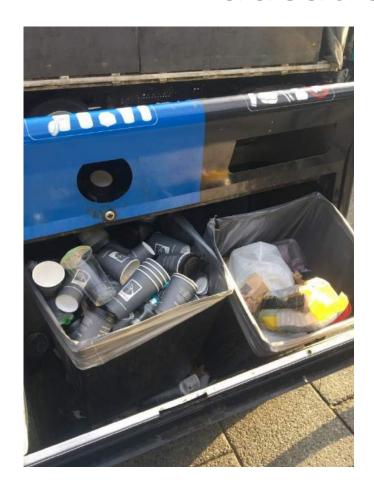








Education: Address Contamination











Education / Awareness











Education / Awareness











Thank You to Our Panelists

Christa Rust

Senior Program Director

Recycle Everywhere

Winnipeg, MB

crust@cbcra-acrcb.org

Emily Willobee

Policy & Programs Planner

Dist. of West Vancouver

Vancouver, BC

ewillobee@westvancouver.ca

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Orange County Solid Waste Management

Chapel Hill, NC

bpollock@orangecountync.gov

Amy Lego

Executive Director

Operational Downtown

Des Moines, IA

alego@downtownDSMUSA.com





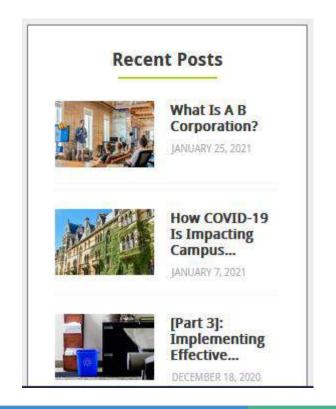
Busch Systems Resources

Consulting Services

- Designing collection systems
- Planning bin infrastructure
- Waste composition studies
- Employee engagement
- TRUE advising



Advancing Recycling Blog Series





Participate in Survey - Outdoor Recycling Trends

Look for an email with link

- 15 questions/ Less than 10 minutes
- Results shared w/ Participants once survey closes







Stay Tuned for Product Demonstration





Live Poll #4

Would you like to receive emails about Busch System's bin products?

- Yes, you can email me
- No, I do not want to be emailed





Back up Photos



















