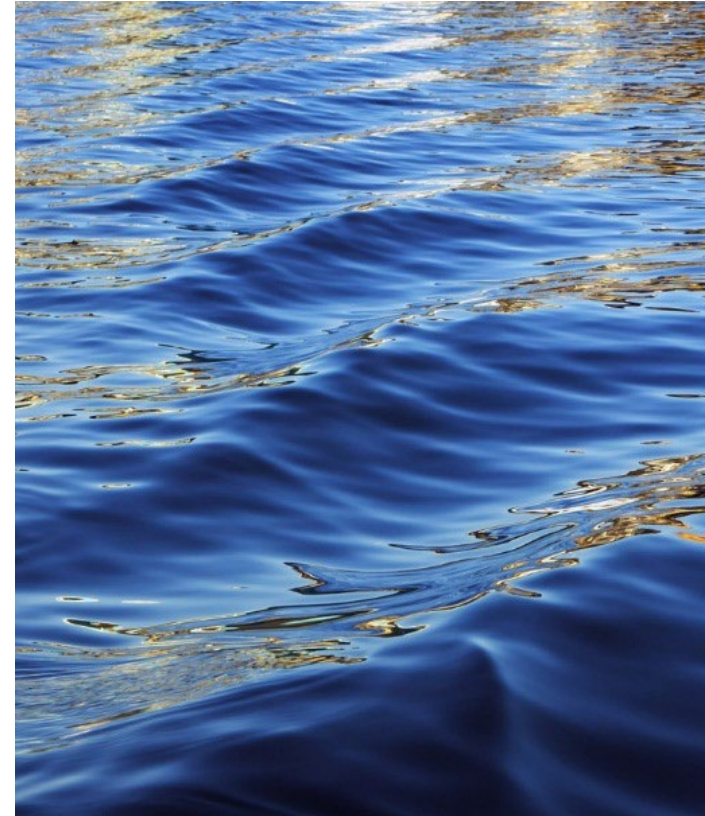


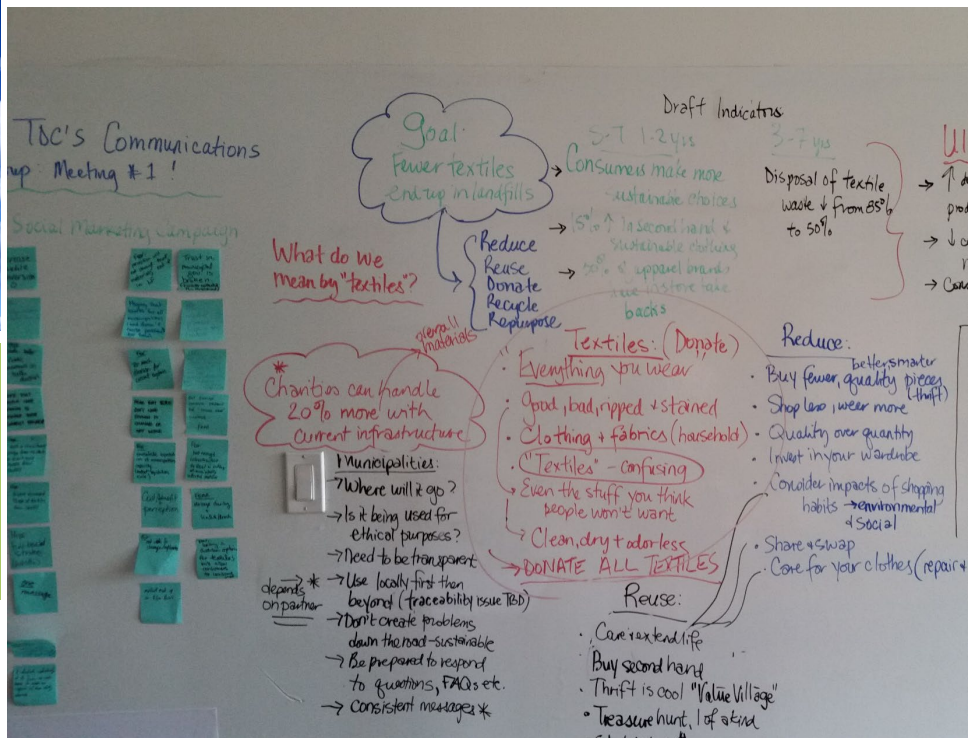
Textiles Waste Characterization and Quantification Study



2019/20 Residential Waste Audits

- **Summer 2019 – Summer 2020**
 - 10 Municipalities (SF, MF, Depot)
 - Seasonal Audits (Spring 2020 COVID Impact)
- **CIF/SO Terms of Reference Audit Methodology**
 - Primary focus on Blue Box (Printed paper & packaging materials)
 - Some classification of “Other” materials
 - e.g. Food waste, pet waste, sanitary, etc.
 - Occasionally a “Textiles” category





The Ontario Textile Diversion Collaborative (OTDC)

- Conducted a facilitated workshop to develop categories for textile waste audits
- Suggested: Clothing, household textile, footwear, accessories, soft toys, other

This guide was developed to provide Waste Auditors and Municipalities across Canada with a resource to help in the planning, design, and analysis of waste audits...

Research has determined that the lack of definition in the textiles category and collection methods has made it challenging to compare textile waste audit results in the past. The comparison of past audits revealed that the main difference between approaches occurred in the definition of textiles. For example, some audits included footwear, or only useable textiles (interpretation of what constitutes reusable, recyclable, or end of life, can greatly vary based on factors such as contamination and current textile recycling infrastructure available). Items such as backpacks and handbags were included in some audits, but not others.

Post-Consumer Textile (PCT) Textile Audit Guide

Textile Waste Audit Guide (Condensed Version)					
Clothing	Household Textiles	Footwear	Accessories	Soft Toys	Other Textiles
Includes all clothing, lingerie, socks, costumes, snowsuits, swimwear, etc	Includes all linens, towels, curtains, tablecloths, pet clothes, etc	includes all footwear, sport shoes, insoles, etc	Includes all bags, purses, backpacks, gloves, mittens, hats, scarves, wallets, etc	Stuffed toys and animals	Masks, pet collar and leashes

Not Included as PCT		
Canvas tarps	Hospital Bedding & Linens	Umbrellas
Car floor mats	Hotel Bedding & Linens	Uniforms bulk (10 pieces or more)
Carpets (as floor covering)	Manufacturer cut-offs or clippings	Upholstered furniture
Ice Cleats / Crampons (without shoes)	Plastic rice sacks and feed bags	Upholstery fabric
Clothing in bulk disposed by retailer or manufacturer	Ski and snowboard boots	Wigs
Fabric Bolts	Sport and protection accessories (harness, masks, glasses, knee pads, shin guards)	Window blinds and shades
Hard Luggage	Sports equipment/gear	
Hard toys	Tents	

Results

Summer 2019

Total Garbage Audited (kg): 11,779

	Weight (kg)	% of Garbage Stream
Clothing	225.78	1.92%
Household Textiles	158.87	1.35%
Footwear	53.69	0.46%
Accessories	38.02	0.32%
Soft Toys	5.42	0.05%
Other Textiles	20.38	0.17%
Total textiles	502.16	4.26%

Winter 2020

Total Garbage Audited (kg): 13,164

	Weight (kg)	% of Garbage Stream
Clothing	282.32	2.14%
Household Textiles	132.21	1.00%
Footwear	73.17	0.56%
Accessories	52.53	0.40%
Soft Toys	4.61	0.04%
Other Textiles	29.81	0.23%
Total textiles	574.65	4.37%

Fall 2019

Total Garbage Audited (kg): 14,993

	Weight (kg)	% of Garbage Stream
Clothing	330.45	2.20%
Household Textiles	206.38	1.38%
Footwear	105.71	0.71%
Accessories	59.64	0.40%
Soft Toys	9.41	0.06%
Other Textiles	22.06	0.15%
Total textiles	733.65	4.89%

Spring/Summer 2020

Total Garbage Audited (kg): 5,067

	Weight (kg)	% of Garbage Stream
Clothing	73.08	1.44%
Household Textiles	58.28	1.15%
Footwear	28.62	0.56%
Accessories	22.19	0.44%
Soft Toys	2.89	0.06%
Other Textiles	11.59	0.23%
Total textiles	196.65	3.88%

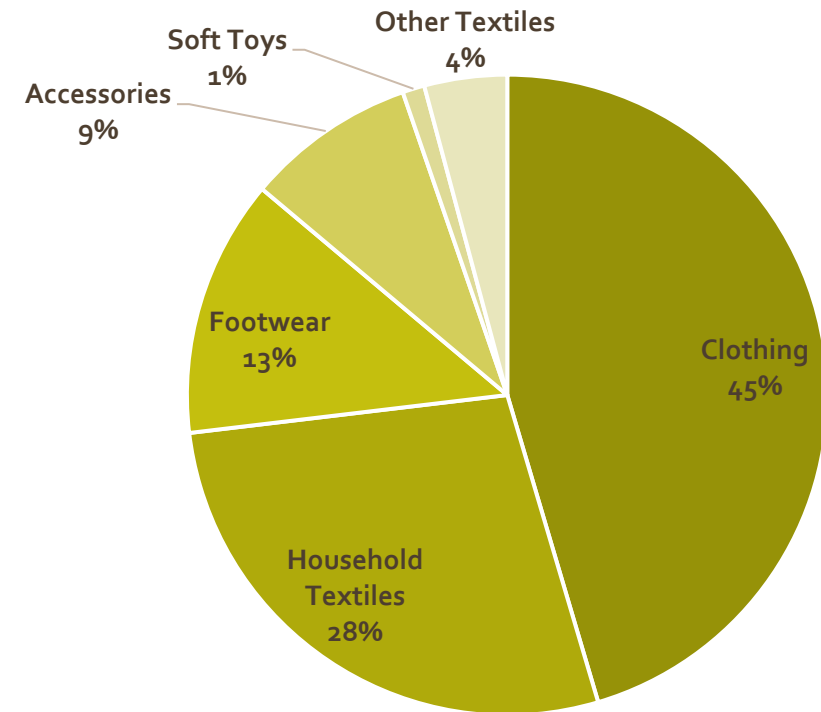
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4-Season Total

Total Garbage Audited (kg): 45,003

	Weight (kg)	% of Garbage Stream
Clothing	911.63	2.03%
Household Textiles	555.74	1.23%
Footwear	261.19	0.58%
Accessories	172.38	0.38%
Soft Toys	22.33	0.05%
Other Textiles	83.84	0.19%
Total textiles	2007.11	4.46%

Breakdown of Textiles Waste in Garbage





'A' grade = 13%



'B' grade = 4%



'C' grade = 8%



'D' grade = 40%



'E' grade = 21%



'F' grade = 14%

65% Reuse

Recycling

End of Life
Management

Textile Grading

A Feasibility Study of Textile Recycling in Canada

Commissioned by Environment and Climate Change Canada



Research date: January 2020 – March 2021, Toronto

Thank You

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