



IAC September 7th Workshop Summary and Follow Up

Paul Henderson

General Manager, Solid Waste Services

Solid Waste and Recycling Industry Advisory Committee Meeting, Nov.1 2022

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WHAT WE HEARD: DISPOSAL BAN PROGRAM

- Review historic work on disposal ban program
- Consider reducing organics threshold from 25% to 5%
- Better connection/education/responsibility to generator
- Ensure no incentive to mix recyclables with organics instead of separating
- Consider incentives for high-performing haulers
- Questions about visual inspection process

WHAT WE HEARD: RECYCLING DATA

- More information on how data is collected/analysed
- More information on data sources and associated reliability
- More information on what is considered recycling (e.g. how are residuals factored in, how do estimates account for the end fate of materials collected for recycling)
- Increased transparency related to concrete recycling and impact on reported recycling rates – some members felt concrete recycling should not be included

WHAT WE HEARD: CIRCULAR ECONOMY

- New targets should be achievable and focus on waste reduction
- Promote benefits of circular economy
- Government procurement policies should promote circularity
- Encourage/support circular enterprises

WHAT WE HEARD: RESIDUALS MANAGEMENT

- Concern that Metro Vancouver both operates and regulates solid waste facilities
- Important to clarify roles for public and private sector in delivering waste and recycling services
- Generator levy collection may be challenging due to data collection difficulties

WORK FLOWING OUT OF SEPTEMBER 7 WORKSHOP

- Updating data presentation in annual report
- Consultant review of disposal ban program
- Determining potential surcharges at different organics disposal ban thresholds



Thank You!

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Disposal Ban Program Review

Klaryssa Lawrie





- Purpose: Review Disposal Ban Program Focus On: Efficiencies of the inspection program and application of surcharges.
- Current Process:
 - Electronic and paperless program has been used to enforce the disposal ban since July 2019 (eSurcharge)
 - Inspectors use mobile tablets with integrated cameras to record inspections.
 - Inspected loads are logged as:
 - 1) No banned materials
 - 2) Contain banned materials and are reloaded onto vehicles
 - 3) Contain banned materials and are surcharged

- **Task 1. Inspection Process**

- **Task 2. Visual Audit Process**

Project Scope – Task 1 – Inspection Process



- Purpose: Develop understanding of inspection process and identify improvements
- Approach: Conduct interviews with inspectors and observations at 9 facilities over 3 days

Project Scope – Task 2 – Visual Audit Process



- Purpose: Develop an understanding on amount of banned materials within surcharged loads
- Approach: Completion of visual audits to assess if threshold limits of banned materials have been exceeded.

Project Outcome



- Deliverable: A report that documents consolidated findings from Task 1
 - Facility-specific observations will be made where appropriate
- Deliverable: A report providing the results of Task 2

Anticipated Schedule

Task/Milestone		2022									
		Sep		Oct				Nov			
		26	3	10	17	24	31	7	14	21	28
1. Dillon Project Management											
1.1	Project management and administration										
1.2	Project QA/QC, risk management										
1.3	Health and Safety Management										
2. Inspection Process											
2.1	Background Document Review										
2.2	Survey Development										
2.3	Fieldwork Preparation										
2.4	Field Inspections/Interviews										
2.4.1	Week 1 - North Surrey, Central Surrey, United Blvd										
2.4.2	Week 2 - Maple Ridge, Langley, North Shore										
2.4.3	Week 3 - Vancouver (x2), WTE										
2.5	Reporting										
3. Visual Audit Process											
3.1	Waste Audit Prep										
3.2	Waste Audit Fieldwork										
3.3	Data Analysis										
3.4	Reporting										
Legend											
	Task										
	Milestone										

Questions?



4.3

Burnaby Eco-Centre

Waste Reduction and Recycling Data

FOLLOW-UP

Terry Fulton, P.Eng.

Senior Project Engineer, Solid Waste Services

Solid Waste and Recycling Industry Advisory Committee Meeting, Nov.1 2022
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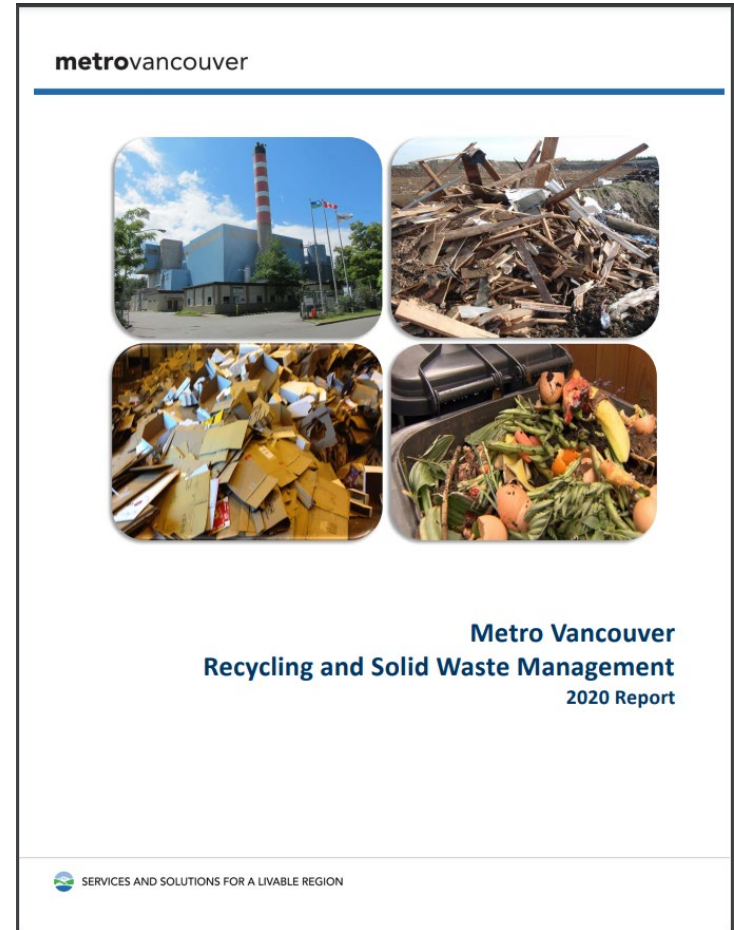
OUTLINE

- Recycling and Solid Waste Management Annual Report
 - Content
 - Process
- Proposed Updates based on IAC Feedback
 - Data Sources Explanation
 - Construction & Demolition Sector
 - Clarifying Recycling Data

ANNUAL REPORTS

- Publicly available
- Summarizes waste generation for the year
- Recycling rate
- Breakdown by commodity
- EPR Summary
- Reuse

<http://www.metrovancouver.org/services/solid-waste/about/reports-resources/Pages/default.aspx>

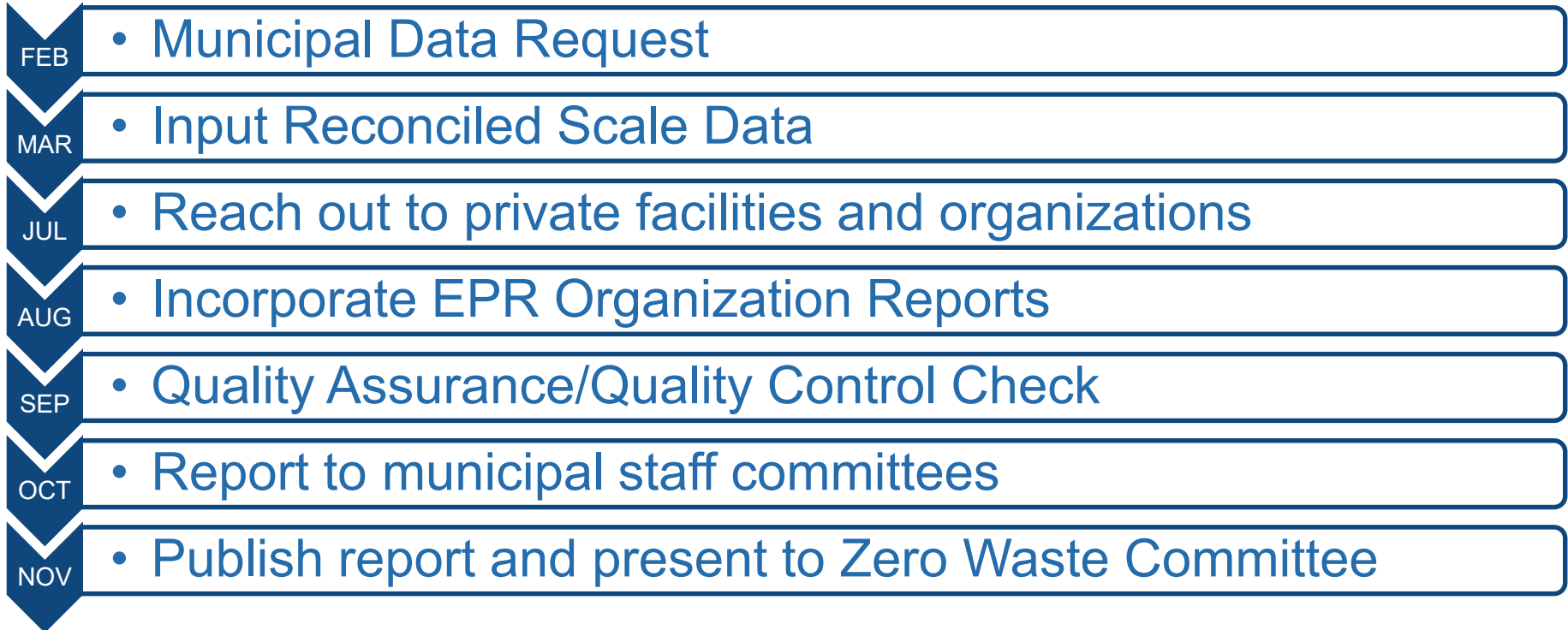


2020 SUMMARY

WASTE SECTOR		DISPOSED (tonnes)		RECYCLED (tonnes)		GENERATED (tonnes)			RECYCLING RATE (%)		
		2019	2020	2019	2020	2019	2020	% change	2019	2020	% change
Residential	tonnes	488,218	509,038	571,961	631,627	1,060,179	1,140,665	8%	54%	55%	1%
	tonnes/capita	0.18	0.18	0.21	0.23	0.40	0.41	4%			
Single Family	tonnes	254,516	269,485	439,730	485,419	694,246	754,903	9%	63%	64%	1%
Multi-Family	tonnes	233,702	239,554	132,231	146,208	365,933	385,762	5%	36%	38%	2%
Commercial/ Institutional	tonnes	385,073	354,268	289,764	278,507	674,837	632,776	-6%	43%	44%	1%
	tonnes/capita	0.14	0.13	0.11	0.10	0.25	0.23	-9%			
Construction & Demolition	tonnes	425,713	382,007	1,329,696	1,350,904	1,755,409	1,732,911	-1%	76%	78%	2%
	tonnes/capita	0.16	0.14	0.50	0.49	0.65	0.63	-4%			
Total	tonnes	1,299,005	1,245,314	2,191,421	2,261,038	3,490,425	3,506,352	0%	63%	64%	1%
	tonnes/capita	0.48	0.45	0.82	0.82	1.30	1.27	-3%			
	tonnes/ household	1.27	1.16	2.15	2.10	3.42	3.26	-5%			

ANNUAL REPORT PROCESS

Typical Year



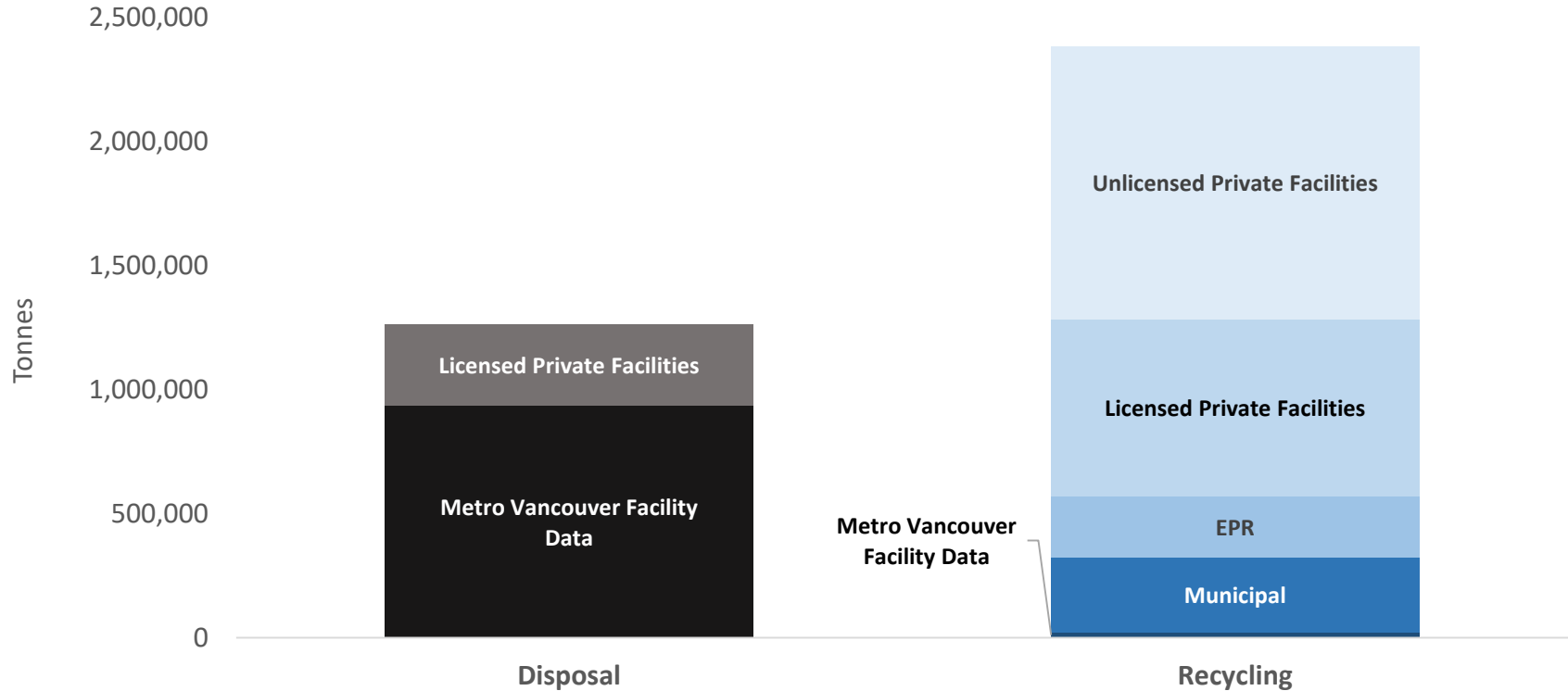
ANNUAL REPORT PROCESS

2021 Report

- Incorporate feedback from Solid Waste and Recycling Industry Advisory Committee
- Publish in January with proposed changes
- Present to new Zero Waste Committee at inaugural meeting

2021 UPDATES

Data Sources



2021 UPDATES

Construction & Demolition Recycling

Material	Tonnes
Asphalt	295,300
Concrete	802,701
Fibre	26,881
Gypsum	56,782
Metal	10,528
Other	7,001
Textiles	110
Wood	151,600
Recycling Subtotal (Asphalt and Concrete)	1,098,001
Recycling Subtotal (Other Materials)	252,902
Recycling Total	1,350,903
Disposal	382,007
Recycling Rate (Including Concrete and Asphalt)	78%
Recycling Rate (Excluding Concrete and Asphalt)	40%

2021 UPDATES

Better Data Transparency

Facility or Material Type	How it's incorporated
Waste-to-Energy Facility	Counted as disposal except for metals recovered for recycling
EPR Materials	Residuals counted as disposed where reported by stewards
Composting Facilities	Inbound organics minus residuals disposed counted as recycling for facilities within Metro Vancouver
Material Recovery Facilities	Residuals counted as disposed, outbound materials sent for processing counted as recycling, including biomass fuel
Processing Facilities	Accounted for as outputs from above, residuals counted as disposed for facilities within Metro Vancouver

2021 UPDATES

What is not included

- Agricultural Waste
- Industrial Waste
- Forestry Waste
- Water and Wastewater Treatment Plant Residuals
- Material Managed On-Site (e.g. Backyard composting)
- Excavation Soils
- Landfill Cover Material
- Scrap Metal from yards or automotive recycling