

AGENDA ADDENDUM

COUNCIL WORKSHOP

Tuesday, October 23, 2012

7:00 p.m.

Committee Room, Municipal Hall

355 West Queens Road,

North Vancouver, BC

Council Members:

Mayor Richard Walton

Councillor Roger Bassam

Councillor Robin Hicks

Councillor Mike Little

Councillor Doug MacKay-Dunn

Councillor Lisa Muri

Councillor Alan Nixon



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Tuesday, October 23, 2012
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355 West Queens Road, North Vancouver**

AGENDA ADDENDUM

THE FOLLOWING LATE ITEMS ARE ADDED TO THE PUBLISHED AGENDA

2. Solid Waste Management Plan

Presentation: Gavin Joyce, P. Eng., General Manager Engineering, Parks & Facilities

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Presentation To Council

October 23rd, 2012

Presentation Outline

- Metro Vancouver Diversion Targets
- Key Study Findings
- Priority decisions (Single Family Collection)
- DISCUSSION – Council Input

Metro Vancouver ISWRMP

Goal #1: Minimize Waste Generation

“Reduce per capita waste generated with the region, calculated on a 5 year rolling average, to 90% or less of 2010 volumes by 2020”

*Source: Metro Vancouver Recycling and Solid Waste Management – 2010 Summary

Metro Vancouver ISWRMP

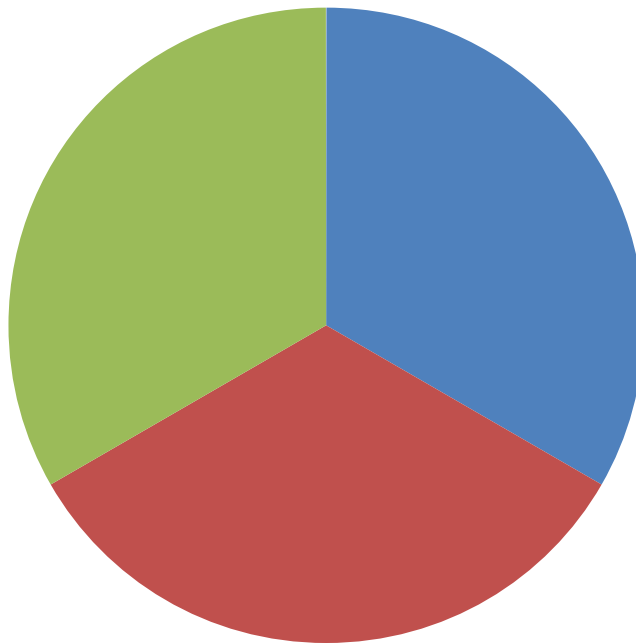
Goal #2: Maximize reuse, recycling and material recovery

Increase waste diversion rate from 55% to a minimum of 70% by 2015, 80% by 2020.

Diversion Targets by Sector:

Sector	Diversion Rate
Multi-Family	30%
Single Family	65%
ICI	70%
C&D (DLC)	80%

Solid Waste Management: The Challenge



- Customer Service (Social)
- Operational Efficiency (Financial, \$)
- Diversion (Environmental)

Where are we now?

- Single Family Diversion 48% - 64%.
- Calculations for diversion rate very difficult.
- Issues with data quality at NSTS and availability of data (Take-back, EPR).
- SF (Collected curbside) 53%
- MF ? (10-14%)
- ICI ? (40-50%)

Key Project Findings: Single Family

- Business as usual will not achieve MV waste targets.
- To meet MV targets a reduction in garbage limits and/or a move to biweekly garbage collection is necessary.
- High level business case for Automated collection not strong in DNV.
- Many operational decisions dependent on container choice.
- Construction and Demolition waste a high density material and has a major impact on diversion rates ('garbage' RDO at NSTS).

Single Family

Organics	Backyard composting and grasscycling most sustainable Discourage use of garburators; Enhanced education for 'Green Can' 462L/week (equivalent to 6x77L) limit is more than sufficient for average resident
Garbage	Limit reduction could achieve 15% 'shift' Bi weekly collection could achieve 40% 'shift' (in line with waste composition studies) Many residents currently producing less than current limit
Recycling	Continue with three-stream Wait for outcome of the Packaging and Printed Paper (PPP) Extended Producer Responsibility (EPR) Program (May, 2014) – plan for changes mid 2013

Key Project Findings: Multi-Family

Current housing split	83% SF : 17% MF
OCP long term housing split	55% SF : 45% MF
2015 Diversion Targets	65% SF : 30% MF

MF sector must 'pull its weight' in terms of diversion in favour of excess responsibility being placed on the SF sector. Options:

1. Leader: expand education and outreach efforts.
2. Further investigate franchising of solid waste and recycling collection services in the MF sector.
3. Metro Vancouver, regional issue, plans to address waste leakage (hauler licensing and approved facilities).
4. Implement Metro's Draft bylaw with enhanced requirements for organics (Town Centres) .

Key Project Findings: Town Centres

- Implement Metro Vancouver's Draft Bylaw on the provision of space for storage and collection of recyclables in MF and ICI buildings with enhanced requirements for organics management (water and drainage).
- Implement Metro Vancouver's Sample Regulatory Mechanism for Mandatory Recycling on Construction and Demolition Worksites.
- Put procedures in place to ensure the District tracks the quantity and destination (reuse, recovery, disposal) of C&D materials generated through construction and demolition activities in developing the new Town Centres.

Key Project Findings: ICI

- Eco Levy recommended, can fund education efforts, public recycling bins, contribution to Recycling Depot (NSRP).
- The District's commercial collection service is a marginal business; a detailed review is recommended.

Key Project Findings: Other

- Staff to implement C&D and MF/ICI Recycling space bylaws.
- Track C&D wastes being reused / recycled through internal operations at Beach Yard.
- Actively monitor illegal dumping .
- Educational Programs targeted at “ReUse”.
- Educational Programs targeted at C&D waste (reduce, reuse recycle).

Priority Decisions: Workshop Focus

Key Change Decisions: Single Family Collection

1. Bi-weekly garbage collection.
2. Reduce garbage limit.
3. Standardize containers with DNV supplied carts.

	Current system (154L Weekly)	Garbage bi-weekly (140 litres)	Garbage weekly (77 litres)
Diversion rate	53%	72%	60%
Cost savings (2011 rates)		\$146,160 (Shift from garbage to organics tipping rate) \$250,000 reduced operation costs	\$54,810 (Shift from garbage to organics tipping rate)
Impact on customer service		Reduces frequency of service for garbage collection	Reduces weekly volume of garbage collection

Impacts of container options:

	Environmental benefits	Financial benefit	Customer service
Current container mix	 Allows resident to choose container. No change	 The least expensive option	 Allows the residents flexibility
Wildlife resistant carts for garbage	 Improvement to current situation	 Carts costs may be partially offset through lower injury rates and potential operational savings	 Provides every resident with a wildlife resistant cart
Wildlife resistant carts for Organics	 This is expected to reduce wildlife conflicts	 Carts costs may be partially offset through lower injury rates and potentially automated collection. Operators cite Kraft bags & bundles as the primary source of injury	 Provides every resident with a wildlife resistant cart

Impacts of various user pay options:

	Environmental Benefits	Financial benefit	Customer Service
No extra permitted. Everyone only permitted to place out the base maximum	 There would be a large incentive for residents to minimize garbage production	 Reduced garbage volumes	 No option for extra material Resident would have to drive to transfer station with excess material
Tag for extra items	 Because analysis shows the average resident can readily comply with a reduced limit, this option provides a cheap, easy way for resident to manage fluctuations in quantity without being "tied in" to a larger cart size.	 Currently \$3 per tag, very low administrative cost. (needs to be administered via web)	 Provides residents with an option for managing excess material. Not as convenient as larger container but calculations show the average resident does not have a need for excess material every week
Annual charge for larger or additional container (Volume based system)	 If people pay for or subscribe to a larger cart, they may tend to fill it	 Depends on annual charge and size of container ordered. (Equitable).	 Provides an option for excess volumes
Charge for weight collected (Weight based system)	 Residents have an incentive to minimize garbage and organics every collection, if applied to organics, could motivate composting	 Is very equitable but comes with a very high admin. cost, limited use in Europe Still need to include a base minimum rate for the fact that the collection truck passes down their street	 Customer can dispose of as much garbage and organics as needed each collection Customer is in full control of costs (if billed weekly / monthly)

Recommendations –Single Family Collection

1. To meet diversion targets set base garbage service at 140 litres bi-weekly (with a 240L container as an option with extra cost).
2. Provide each resident with wildlife resistant 240 litre cart (with 140 litre cart as available option) for weekly organics.

Option – Single Family Collection

1. To meet diversion targets set base garbage service at 140 litres bi-weekly (with a 240L container as an option with extra cost).
2. Provide each resident with wildlife resistant 140 litre cart (with a 240L container as an option with extra cost) for weekly organics.

Next Steps

- Based on feedback today, develop comprehensive plan including implementation schedule to bring back to Council



Thank You
DISCUSSION

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