

Ontario Recycler Workshop

October 8, 2013
ORW begins at 9:30 a.m. ET



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IMPROVEMENT FUND

Ontario Recycler Workshop April 11, 2013

Mike Birett
CIF

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Intro & Welcome

- Good morning & welcome to the 17th ORW
- 150+ people registered to participate online & in person
- Thank you all for taking the time out of your busy schedules to join us today

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Webcast Controls

- Full day session (to ~4:30 p.m.)
- For webcast viewers
 - ❶ sound slider (hover over black bar)
 - ❷ “questions & comments for speakers”
 - not seen on other participants’ screens
 - ❸ link to agenda & slides
 - ❹ webcast technical assistance



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Snapshot...Today's Program

- CIF & partner updates
- Morning Break
- Preparing for change: working together
- Lunch
- Update on AMO activities
- CIF Centre of Excellence training opportunities
- Optimizing your recycling program
- Afternoon break
- Boosting program efficiency
- Bill 91 -The Waste Reduction Act: What You Need to Know
- Concluding remarks

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The CIF Thanks Today's Many Speakers!

- | | |
|--|--|
| • Aaron Burman, RRS | • Joe Hruska, CPIA |
| • Annette Synowiec, City of Toronto on behalf of AMO | • John Watson, Halton Region |
| • Bradley Cutler, CIF | • Kevin Mehlenbacher, Peel Region |
| • Cathie Green, Lanark Highlands | • Maria Kelleher, Kelleher Environmental |
| • Dave Robb, Hastings Highlands | • Michael Scott, Executive Director |
| • David Faris Yousif, City of Hamilton | • Monika Turner, AMO |
| • Glenda Gies, Glenda Gies & Associates | • Renée Dello, City of Toronto |
| • Janine Ralph, HDR | • Rick Denyes, Stewardship Ontario |
| | • Robert Cook, OWMA |
| | • Will Mueller, WDO |

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CIF Update

Mike Birett
CIF



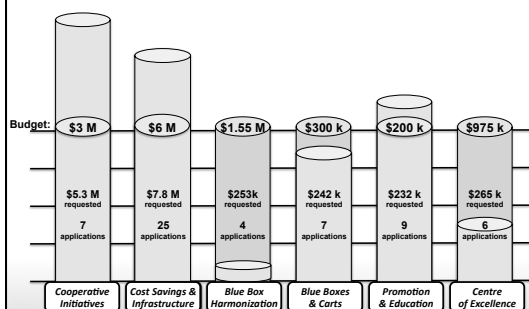
2013 REOI Update

- 2013 CIF REOI
 - Budget: \$12 million
 - Closed May 6th
 - 58 applications received
 - \$27.4 million total value
 - Funding requested: \$14 million



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2013 CIF REOI Response



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Approvals

Funding Requests		
Approval Level	# of Projects	~ Total Funding
CIF Director	25/29 approved	\$468K
CIF Projects Committee	15/21 approved	\$1.898M
CIF Committee	7/8 recommended	\$7.656M
	47 approved*	\$10.02M before Tax

* To be confirmed

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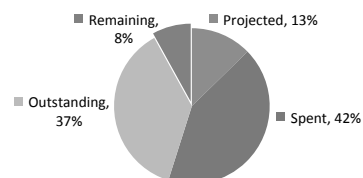
Next Steps

- CIF Committee Oct 22nd
- Release of approval letters & draft grants
 - Reject letters & appeals
 - Contact your project manager for status
- New application & project guidance

cif.wdo.ca/funding

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CIF Projected Financial Status



- Projected Administration Costs (2008-2018)
- Spent (Completed Projects + Projects Invoiced to Date)
- Outstanding Committed Project \$
- Remaining Project Funding \$ Projected at end of 2013

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Draft 2014 Budget (1)

- Assumes no new funding
- Sufficient funds allocated to:
 - Fulfill current obligations
 - Operate Centre of Excellence through wind down
 - Support administration until fund closure

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Draft 2014 Budget (2)

Grant Opportunities	2014 Budget
System Rationalization	\$1,000,000
Cost Saving Initiatives	\$1,000,000
Addressing Problematic Materials	\$1,000,000
Blue Box Harmonization	\$200,000
Total	\$3,200,000

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Draft 2014 Budget (3)

Centre of Excellence Initiatives	Proposed 2014 Budget
Best Practices Compliance & Data Call Support	Incl. in Admin Budget
Development of Better Practices & Tool Kits	\$100,000
Marketing Materials & Blue Box Harmonization	\$100,000
Support For RFP & Tender Development	\$75,000
Training Initiatives	\$200,000
Outreach Services	\$50,000
Performance Auditing	\$200,000
Total	\$725,000

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Centre of Excellence Projects

- RFP template review
- Carton Council of Canada joint project
- MRF audit protocol



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Looking Ahead

- Thanks to all of you who participated in AMO spring consultations
 - We plan on doing more
- Admin
 - Closure of 2010 projects
 - Updating CIF web site
- New training opportunities
- CofE will begin work in earnest
 - Input already received from MWA

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Projects We're Seeking Feedback On

- Film impacts on two stream operations
 - \$75,000
- Mixed broken glass
 - \$400,000



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For More Information

Website: cif.wdo.ca

Mike Birett – Director, CIF
mbirett@wdo.ca (905) 936-5661

Carrie Nash – Project Manager, CIF
CarrieNash@wdo.ca (519) 858-2396

Alec Scott – Project Manager, CIF
archenv@sympatico.ca (705) 722-0225

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Presentation to Ontario Recycler Workshop

Tuesday October 8, 2013
Barrie, Ontario



Presentation Will Cover

- Key Results – 2012 Municipal Datacall
- Update on:
 - MIPC Negotiations on 2014 Steward Obligation
 - In Kind Program
 - Waste Electronic & Electrical Equipment (WEEE) Program
 - Used Tires Program
 - Industry Stewardship Plans
- Looking Ahead

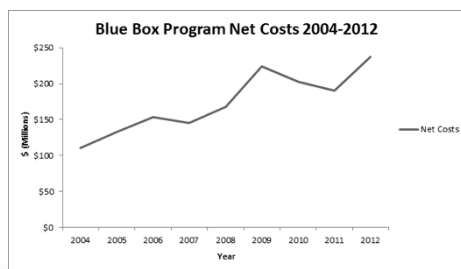
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2012 Municipal Datacall Results (1)

- Now posted on WDO Website
- Key Results:
 - Total tonnage down slightly
 - 2.8% drop in printed paper
 - 8.7% increase in aluminum tonnage
 - Significant growth in plastic – 7.4% in 2012
 - 119 of 230 reporting programs have implemented some form of pay as you throw

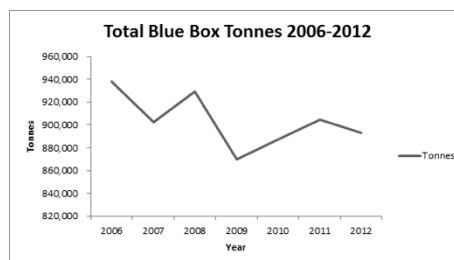
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2012 Municipal Datacall Results (2)



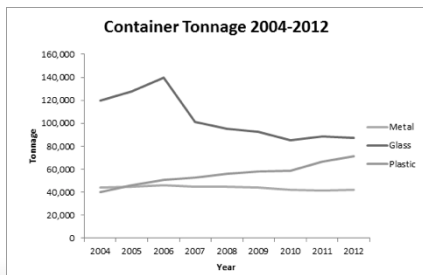
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2012 Municipal Datacall Results (3)



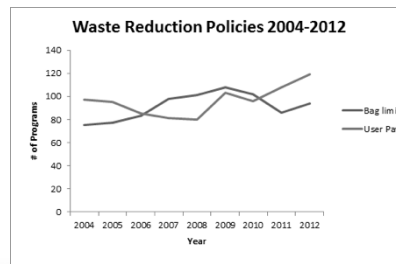
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2012 Municipal Datacall Results (4)



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2012 Municipal Datacall Results (5)



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In-Kind Program (1)

- Newspaper stewards currently pay their BBP financial obligation through in-kind advertising
- From 2004-2011, the average in-kind was approx. \$1.7M
 - In 2012 – \$3.5M
 - In 2013 – \$6.1M
- Minister has directed WDO to provide recommendations to him

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In-Kind Program (2)

- No consensus from MIPC on recommendation
- Mediator retained in July
- Concluded that a mediated solution was not possible without full access to SO data & methodology for calculating annual steward fee by category
- WDO Board has deferred a recommendation, while WDO continues discussions with SO on this issue

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Other Updates (1)

- A status report on the review of the WEEE program will be distributed shortly
- WDO discussing with Ontario Tire Stewardship their proposed reduction in incentive rates & market development

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Other Updates (2)

- WDO has received 5 industry stewardship plans:
 - 2 from Product Care (paints & coatings, & pesticides, solvents & fertilizers)
 - Canadian Beverage Container Recycling Association (beverage containers)
 - Call2Recycle (batteries)
 - Pitney Bowes (floor standing printing & copying devices)
- Stakeholder consultation webinars for first 3 above now scheduled for late October & November
 - Dates are posted on the WDO website

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Looking Ahead

- Bill 91
- Municipal datacall redesign
- Blue Box issues
 - Cost a continuing significant issue
 - Material composition & related metrics
 - Need to maximize CIF investments
 - Joint municipal collaboration is very important

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416-226-5113

WDO Waste
Diversion
Ontario

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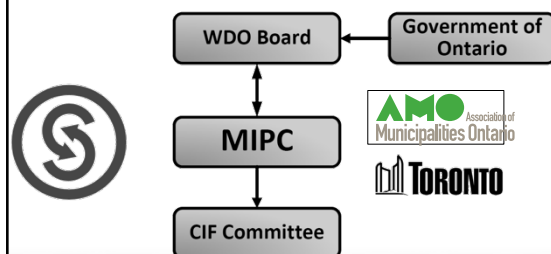


Update on MIPC Activities

Annette Synowiec
City of Toronto

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Organizations & Relationships



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MIPC Municipal Members

- Changes in 2013 – Tim Michael retired, replaced by Annette Synowiec
- Current Members:

– Eli Maodus	Essex Windsor Solid Waste Authority
– Craig Bartlett	Durham Region
– Dave Gordon	York Region
– Chris Wray	Township of Muskoka Lakes
– Monika Turner	Association of Municipalities of Ontario

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MIPC Activity

- 2013 negotiations still ongoing – details still confidential
 - Normally municipalities informed of WDO funding levels for subsequent year in November
 - Normally first funding cheque arrives in June
 - Recommend setting your budget using 2013 numbers
- Bill 91 discussions occupying a lot of time
- New Best Practices 'objectives form' developed in spring
 - Presented at spring consultation sessions

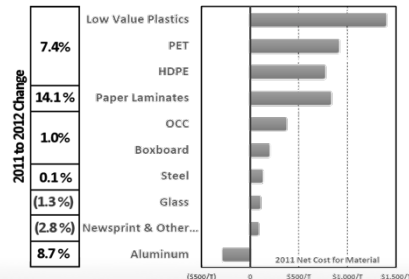
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Preliminary 2012 Results

Group	Name	Average	Net Cost	BB Tonnes	Garbage Tonnes	Households
1	Large Urban	\$277.59/T	\$118,402,025	426,543 T	1,011,669 T	2,318,202 HH
2	Urban Regional	\$201.60/T	\$46,316,525	229,743 T	617,576 T	1,286,715 HH
3	Medium Urban	\$185.90/T	\$9,523,909	51,230 T	165,818 T	298,901 HH
4	Rural Regional	\$302.72/T	\$29,179,601	96,931 T	244,631 T	636,541 HH
5	Small Urban	\$214.72/T	\$5,580,050	25,987 T	58,705 T	137,991 HH
6	Rural Collect. N	\$424.57/T	\$4,236,898	9,979 T	46,023 T	83,130 HH
7	Rural Collect S	\$401.72/T	\$15,387,645	38,304 T	135,814 T	266,091 HH
8	Rural Depot N	\$643.08/T	\$3,813,029	5,929 T	21,105 T	71,697 HH
9	Rural Depot S	\$540.96/T	\$4,769,639	8,817 T	27,050 T	93,627 HH
Overall		\$265.65/T	\$237,209,322	892,924 T	2,328,390 T	5,192,895 HH

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Year to Year Changes



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For More Information & Updates

Alec Scott
Municipal MIPC Blue Box Program Coordinator
(705) 722 0225
arhenv@sympatico.ca



Working Together to Increase Diversion

Rick Denyes
Director, Strategic Supply Chain
Stewardship Ontario



Stewardship Ontario (SO) Update - Internal



- MIPC Negotiations
- Bill 91
- CSSA Transformation/Implementation
- SAP Upgrade
- Website Upgrade

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SO Update - External

- PPP Producers
- Standardized packaging materials
- Close the loop approach
- Cost-effective solutions across entire supply chain
- Problematic materials – technologies
- Financial support – municipal & private

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Innovation in Processing (1)

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Innovation in Processing (2)

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Innovation in Processing Technologies

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Technologies Currently in Due Diligence

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Plastic Is In

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Markets Update (1)

- Plastics
 - EFS, Entropex & Blue Mountain are strong local processors
- Mixed Plastics \$38
- HDPE \$470
- Film Plastics \$16
 - EFS ramping to 7500 TPY by year end
- PET \$384
 - Blue Mountain accepts bottle/thermoform

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Markets Update (2)

- EPS
 - HGC densifying material in Belleville
- Glass
 - NexCycle's capacity 60K TPY (\$22)
 - Multiple closures (E-Cullet, Hillcrest, Klareco)
- Fibers
 - ONP \$74
 - OCC \$128
 - Boxboard \$46
- Metals
 - Steel \$248
 - Aluminum \$1,547

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Markets Update (3)

Composite Index

2009	2010	2011	2012	2013
\$80	\$124	\$169	\$118	\$108

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Thinking
beyond
the box
Stewardship Ontario

Thank You

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Questions?



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Enjoy your break!



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Welcome Back!



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Preparing for Change: Working Together

Alec Scott, AMO/CIF



Why Work Together

- Blue box (BB) recycling is a commodity business
- Bigger is always going to be cheaper
- We're hauling more air & fuel costs are increasing



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It's a Long Term Game

- CIF began modernizing municipal processing infrastructure in 2009
 - continues to do so
 - e.g., Niagara, NW Ontario, York Region
- Next step: develop efficient transfer capabilities (compactors, transfer stations, etc.)
- It takes time to coordinate contracts & for programs to demonstrate payback



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Today's Speakers

- Discussing work they & neighbouring municipalities do to cooperatively develop their waste shed(s)
 - ensure they survive & prosper in Bill 91 or BC EPR model
- Each is at different point of what typically is 3 yr. process



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Speakers

- Aaron Burman, Resource Recovery Systems
 - Regional Optimizing Modeling, CIF # 462
- Alec Scott, CIF
 - CIF Northwestern ON Optimization
- Mike Kearns, Iroquois Falls
 - The Power of Partnership: Cochrane Temiskaming Waste Management Board
- Dave Robb, Hastings Highlands
 - Optimizing Recycling Across Boundaries: Hasting Multi-Municipal Waste Committee, CIF #461

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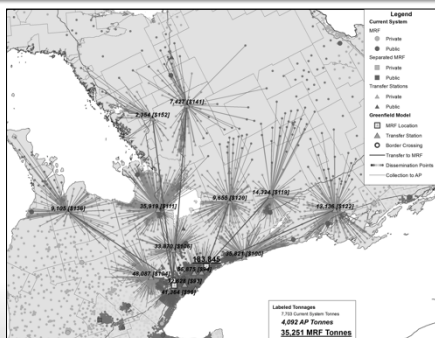


Regional Optimization Modeling

Aaron Burman
CIF Project # 462

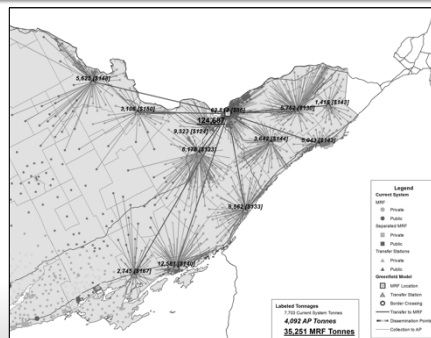


Province-wide GIS Model Shown Potential For Savings in Different Waste Sheds (1)



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Province-wide GIS Model Shown Potential For Savings in Different Waste Sheds (2)



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Model Being Redeployed To Analyze Specific Regional Scenarios

- Piloting different local analytical tools
 - Optimum location of infrastructure
 - Regional scale & not just individual municipalities
 - Rural front-load routes
- Model updates
 - Reinstate municipal borders
 - Input specific local depots instead of census points
 - Input actual tonnage data for depots or curbside routes
 - Can backfill with WDO data & estimations where not available

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Base Set of Data Includes Census Points & Existing MRFs & TSs (1)



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Base Set of Data Includes Census Points & Existing MRFs & TSs (2)



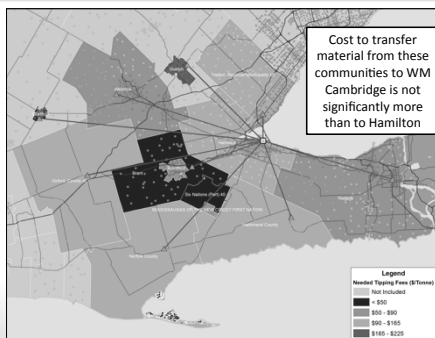
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Base Set of Data Includes Census Points & Existing MRFs & TSs (3)



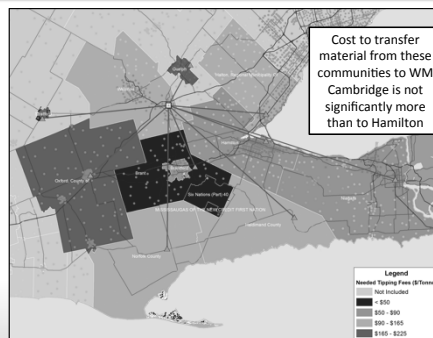
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Although Model Chose Hamilton as Optimum MRF Location,
Other Regional Sites Can Be Cost Effective Hubs (1)



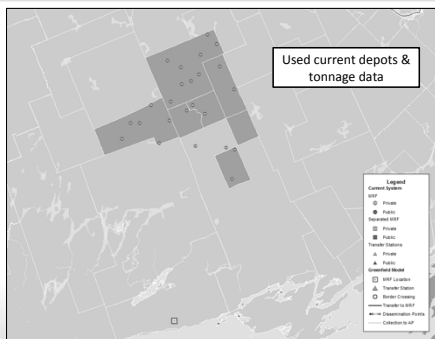
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Although Model Chose Hamilton as Optimum MRF Location,
Other Regional Sites Can Be Cost Effective Hubs (2)



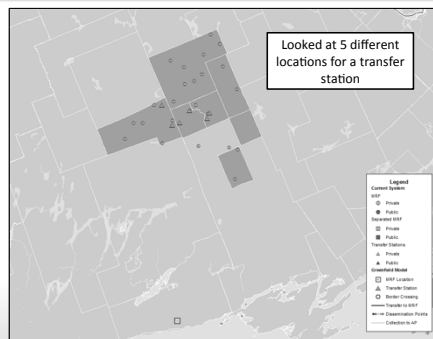
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Applied Model for a Group Of Communities
Near Bancroft (1)



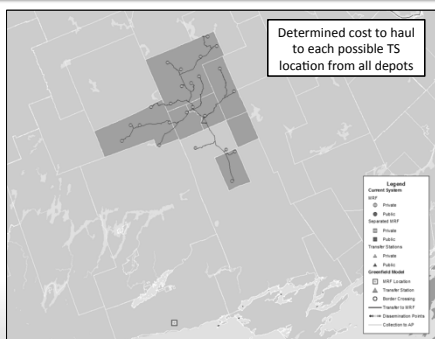
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Applied Model for a Group Of Communities
Near Bancroft (2)



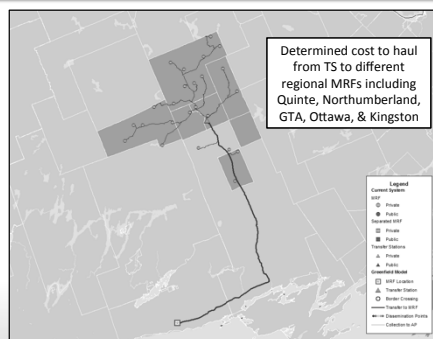
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Applied Model for a Group Of Communities
Near Bancroft (3)



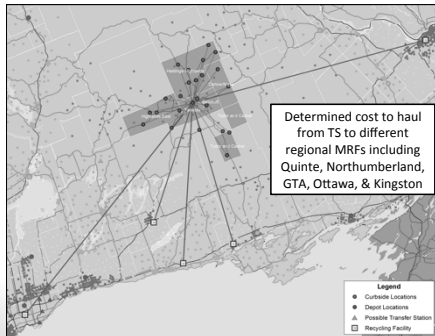
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Applied Model for a Group Of Communities
Near Bancroft (4)



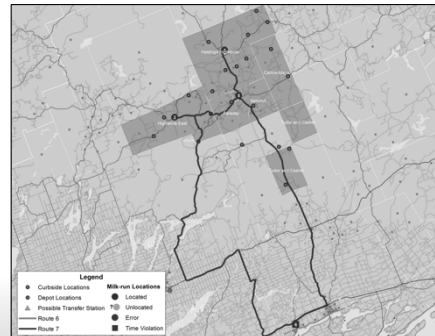
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Applied Model for a Group Of Communities Near Bancroft (5)



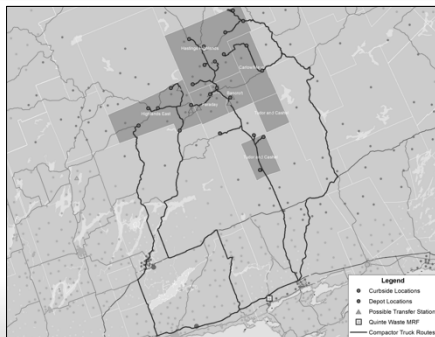
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Also Analyzed Cost to Service All Depots by Front Load Route



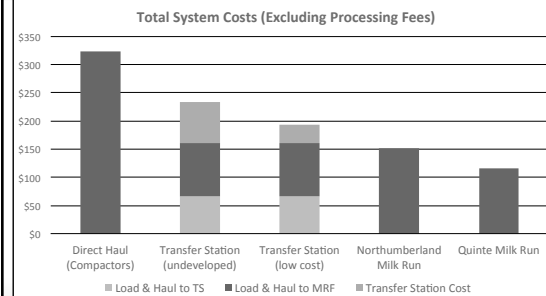
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And Cost to Place Compactors at Each Depot Site or One in Each Program



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Model Output of Comparison of Different Options



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Conclusions

- Powerful tool to analyze regional infrastructure investments
- Focus on specific programs that are looking for solutions
- Trying to marry provincial priorities with individual program priorities

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Northwestern Ontario Optimization

Alec Scott
CIF

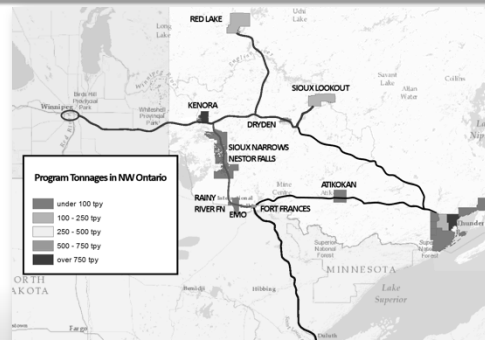
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Blue Box Communities in Northwestern Ontario

Community	Net Cost	Tonnes	Households
Dryden	\$324,171	681 T	3,602
Emo	\$12,074	45 T	732
Fort Frances	\$213,180	528 T	3,813
Kenora	\$507,581	967 T	6,742
Rainy River First Nation	\$24,340	13 T	108
Rainy River Town	\$12,923	29 T	530
Red Lake	\$288,401	213 T	2,135
Sioux Lookout	\$124,440	107 T	2,430
Sioux Narrows Nestor Falls	\$46,450	11 T	1,171

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Where it All Goes



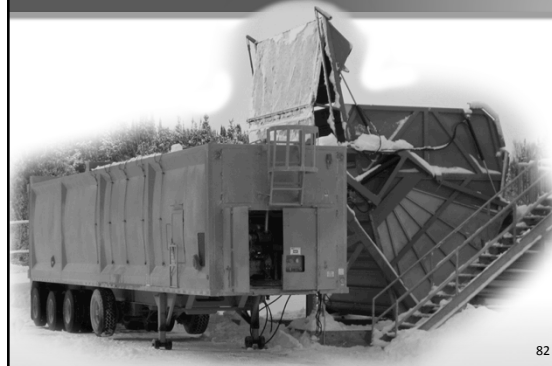
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Dryden

- Current tonnage 681 TPY
- 2003 to 2009 – small municipal MRF & direct transfer to Winnipeg MRF
- 2010 to present – curbside collection & cooperative with Kenora to transfer to Cascades in Winnipeg
- Curbside collection with transfer depot
 - Transtor unit
 - Compaction trailer
 - Cooperative trucking agreement with Kenora
- Proposed shared compaction trailer to eliminate deadhead trips from Kenora to Dryden

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Compaction Trailer and Transtor Unit



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Kenora

- Early days – depot collection transfer to Winnipeg
- 2010 to present – curbside collection & cooperative with Dryden to transfer to Cascades in Winnipeg
- Locals still use depot extensively – allows for separation of some OCC & glass
- CIF funds provided:
 - Transfer trailers & a truck for Dryden–Kenora cooperative; &
 - Loading & transfer facility at Kenora
- Future discussion – transferring materials from other programs

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Red Lake

- Collection-based program serving 6 communities in Municipality of Red Lake
- Currently collection truck drives to Dryden to transfer load
- Issue – high local prices due to limited competition & preferred service to gold mine
- Proposed compaction trailer, local hydraulic unit & truck shared with other municipal uses
- Direct transfer to Winnipeg

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Sioux Lookout

- Until now – local collection & small scale MRF
- Limited data on material recovery
- Proposed – own curbside collection truck & transfer to Dryden
- Sioux Lookout will now handle P&E, program operation & data reporting
- Expect increase in current low recovery rates

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Fort Frances

- Until present - lowest cost local program due to backhaul opportunity with kraft paper mill
- Curbside collection – material stored loose at transfer point & shipped loose in walking floor trailer
- Propose – dual 40 yd³ compaction units with 2 extra compaction bins to optimize transfer to Winnipeg
- Roll off haulage can occur out of Winnipeg, returning empty 40 yd³ bins & picking up full bins
- Opportunity – short haul pickup from Sioux Narrows – Nestor Falls, Rainy River First Nations & Emo

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Compaction Unit



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Processing Alternatives

- Recent situation – small MRF in Rainy River area, possible small MRF venture in Dryden, obsolete small MRF in Sioux Lookout
- Present & near future – common bulk deal for processing in Winnipeg
 - Don't want glass
 - Expensive – charge \$45 at door with no revenue-sharing
 - Limited quality information on processed materials
 - Issues with loading & wait times
- Investigating alternatives including other MRF in Winnipeg & MRF in Wisconsin

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Transfer Alternatives

- Optimize routing
- Standardize equipment where possible
 - Kenora/Dryden route committed to compaction trailers
 - Red Lake cannot readily get roll off service
 - Compaction trailers & roll-off service good alternative on Fort Frances Route



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Approaching Optimization

- NW ON is isolated
- NW ON tonnages will always be relatively small
- NW ON operations will remain expensive
- We can optimize operations by making intelligent long range choices to reduce costs as much as possible
- NW ON communities demonstrated commitment to system optimization & they're almost there
- It's still going to be expensive

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The Power of Partnership: Cochrane Temiskaming Waste Management Board

Mike Kearns
Town of Iroquois Falls

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Cochrane Temiskaming Waste Management Board (CTWMB)

- Board includes members from Temagami to Hearst along Highway #11
 - 14 members
- Services ~ 20,000 HH, markets 1,742 T
- Municipal Group 8
Net/Cost \$328.63
Municipal Group Avg. \$643.08



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Preparing for Change: Working Together

- Project goal:
 - Modify current service delivery & cost sharing model to ensure sustainability of recycling services in the Northeastern (NE) watershed
- Anticipated impacts:
 - Identification & implementation of opportunities to reduce costs for collection, transfer, hauling & processing
- More information:
 - kearnsm@iroquoisfalls.com

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CTWMB

- Service Delivery Model
 - 2 trucks collect recyclables from 30 depots, 1 from northern node & 1 from southern node
 - 2 MRFs (1 northern, 1 southern) process & market recyclables
- Cost-Sharing Arrangement
 - Cost allocated to members on a per HH basis
- Individual Member Costs
 - Depot bins & operation

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Current Status

- Service delivery model
 - Collection trucks nearing the end of their useful lives
 - MRFs equipment requires updating
- Cost-sharing arrangement
 - Fee structure
 - Declining member enrolment
- Individual member concerns
 - Depot bins in need of replacement
 - Increasing pressure to offer curbside service



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Responding to Change

Go it alone or Continue to work together?

- **Going it alone** - allows greater autonomy in decision-making process
 - Adjustments or wholesale program changes can be made without lengthy consultation with other members & councils
- **Working together** – partnership allows for economies of scale & cost savings

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Going Forward

- Working together:

- Building on its long standing record of success the committee will engage in review of
 - Current model & opportunities to convert both MRF to Regional transfer points
 - Feasibility of curbside vs. depot or combination systems possibly including garbage collection



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Working Together

- Continuation & expansion of cooperative efforts

- Board has functioned well since 1995 providing participants (especially very small communities) with viable options for recycling
- This process will be challenging as member municipalities vary in size & composition
- Finding acceptable system will require cooperation & probably compromise



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Goals

- Optimize current system
- Increase diversion & service levels in the most cost effective way possible
 - Respond to push for increased level of service through continued cooperation to achieve economies of scale needed to make the costs manageable



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Our Next Steps – Where Do We Go?

- A lot of work ahead
 - Evaluate possible options for each member municipality
 - Present possible options to Board Members

AND THEN?



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Our Course of Action



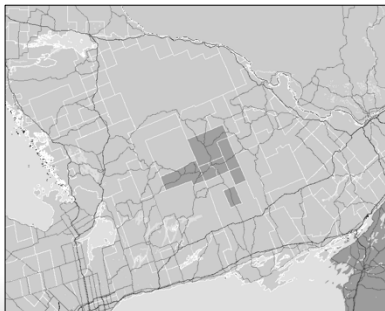
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**Optimizing Recycling Across Boundaries:
Hasting Multi-Municipal Waste Committee**

Dave Robb
CIF Project #461

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Eastern Ontario – Municipal Locations



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Project Participants – System Description

Municipality	HH*	BB Tonnes	Depot	Curbside
Bancroft	1896	366	1	Yes
Carlow/Mayo	694	83	2	No
Faraday	1308	138	1	No
Highlands East	4306	352	5	Yes
Hastings Highlands	3776	349	9	Yes
Tudor & Cashel	586	59	2	No
Wollaston	1176	86	1	No
Limerick			1	No

*HH=households

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Project Overview: System Optimization

- Project goal:
 - evaluate BB system options & implement system change to realize capital & operating cost savings
- Anticipated impacts:
 - Standardize materials collected
 - Establish common operating systems & service provider
 - Reduce operating costs
- More information:
 - Dave Robb: drobb@hastingshighlands.ca
 - Brenda Vader: clerk@faraday.ca

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System Scenarios Being Reviewed

- System status quo
- Alternate depot & curbside collection methods (cart, roll off, compacted roll off, front end)
- Direct haul of recyclables to processor
 - e.g. front end, compacted roll off etc.
- Regional recycling transfer facility to serve curbside & depot programs

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Potential Outcomes

- Expectations
 - Current system of individual depots can be improved upon
 - Central transfer station for BB materials is a long term solution
 - Central transfer that is equipped with compaction units will greatly reduce transport costs
 - Municipalities will have a greater ability to send recyclables to competitive processor market

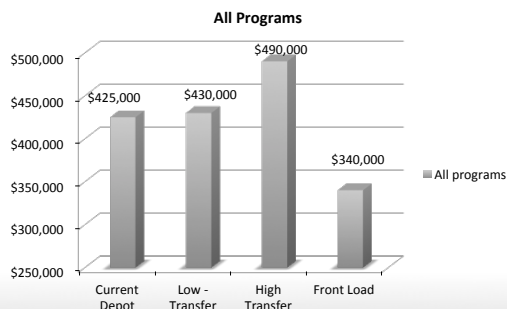
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Draft Findings

- Each depot with compaction unit – found to be too costly
- Central transfer @ private or municipal locations close to current costs
- Reviewing front end collection system
- Estimated number of dumpsters at each site: 1 – 6 (8 cu yd dumpsters)
 - Total Capital Cost: \$46,400
- Estimated needed pickup frequency using weekly estimates
- Assumed 55% of tonnage during peak season
- Costs are for peak season routes
- Finding – one truck is fully utilized

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Draft Findings: Program Costs



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Next Steps (1)

- Verification process
 - Confirm current depot costs & tonnages
 - Verify inputs into model to ensure fair & equitable comparison of current system vs. transfer vs. front end
- Report
 - Assuming Front Load provides a possible solution...
 - Report to council to move forward with RFP for front end depot services & revised curbside collection

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Next Steps (2)

- If Front Load proves cost effective
 - Request CIF support for front end bins purchase to enable municipalities to choose any service provider
 - Possibly consider local economic development opportunity to provide service via owning the front end truck
- Plan B – if Front Load RFP does not provide cost savings
 - Enable central transfer station option
 - Put out RFP for central transfer station

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Questions?



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CIF Centre of Excellence Training

Carrie Nash
WDO

CIF
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IMPROVEMENT FUND

Program-Specific Training for BB Program Operators

- Round table series
 - 3 MR round table meetings
 - Distill learnings from 30+ MR projects to date
 - Renée Dello to report out on project results today
- Contracts Management Training
 - 20+ successful participants
 - each participant developed full contract management plan
 - help reduce risk & control costs

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Coming Up...

- **Benchmarking & Measurement: The Road to Continuous Improvement**
 - Highlight program components that need to be fixed, ways to measure & communicate impacts
 - First classroom session on October 9 – full house!
 - Second delivery on Wednesday, November 13
 - Peel Region Chinguacousy Ski Chalet
 - Potential Phase 2: Measuring impacts of change – date TBD
- **Fundamental Principles in Recycling Planning**
 - Early 2014

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And More...

- **Proposed items under consideration for future**
 - 'Depot toolkit'
 - Auditing protocol for MRFs
 - Updates to P&E shop on CIF website

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In Summary...



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Enjoy your Lunch!



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