

PROLINK

Risk Advisor and Insurance Broker

- Sustainability and Green Industries
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2X Olympic Swimmer, 200m Breaststroke

- 2012 Olympic Finalist
- 2016 Olympic Swim Team Captain

RISK AND RESILIENCE

BUILT TO LAST

Fifty years of resilience in Alberta’s beverage container system

Sam Punian
Vice Chair, Alberta Bottle
Depot Association

ABDA · 50 years

Pay a deposit. Bring it back. Get it back.

HOW THE SYSTEM WORKS

200+

depots across Alberta

160+

communities served

90%+

of Albertans have a depot close to home

14+

material types, source-separated

82.5% returned

The best return rate in Canada (last year)

2.2 billion a year

containers: one of the province's largest reverse supply chains

$0 from taxpayers

The whole system is funded by beverage consumers

How the industry worked before any form of regulation

1972 - 1997

Depots bought

containers from Albertans for a fraction of the deposit

Depots sold

them back to beverage producers for the full value

Consumers blamed depots

the face of the system, and their only point of contact

Our first big risk

Customers resent the service → can't plan → don't invest → a fragile system

OPERATORS SAW IT EARLY

1976

The Alberta Bottle Depot Association is formed, more than 20 years before the BCMB

Because operators knew they had to work together to build a sustainable system

1997

The Beverage Container Recycling Regulation fixed the core problems

01

100% of the deposit back

at any permitted depot

02

A handling commission

paid by producers to cover the cost of collection

03

The BCMB

producers, depots and consumers jointly responsible for the system

Today Alberta leads Canada on **range of containers, recovery rates** and **system cost.**

1976 · 1997 · 2001 · TODAY

PRESENT DAY

MARKET RESILIENCE

Creating a way out

Sebastian Naslund
Enviro-Corp Recycling


ENVIRO-CORP
RECYCLING
ENVIRO-CORP
RECYCLING
CLOSED
SHUT DOWN

WHO WE ARE

SINCE

1995

Recycling glass in BC

UP TO

100,000 t

Processed each year



ENVIRO-CORP
RECYCLING

VERNON GLASS WORKS

PERMANENTLY
CLOSED
All Operations Ceased - Thank You Vernon

FOR SALE
NO
TRESPASSING

Cheap foreign labour



Lower-cost imports



Production moved overseas



ENVIRO-CORP
RECYCLING

THE ECONOMICS OF GLASS

PRODUCT COST
Baseline production & raw material expense

LOW

TRANSPORTATION COST
Logistics impact due to heavy material weight

HIGH

SALES AREA
Market distribution geographic reach

LOCALLY CONFINED



ENVIRO-CORP RECYCLING

SUPPLY CHAIN REALITY

There is no pause button on inbound supply.

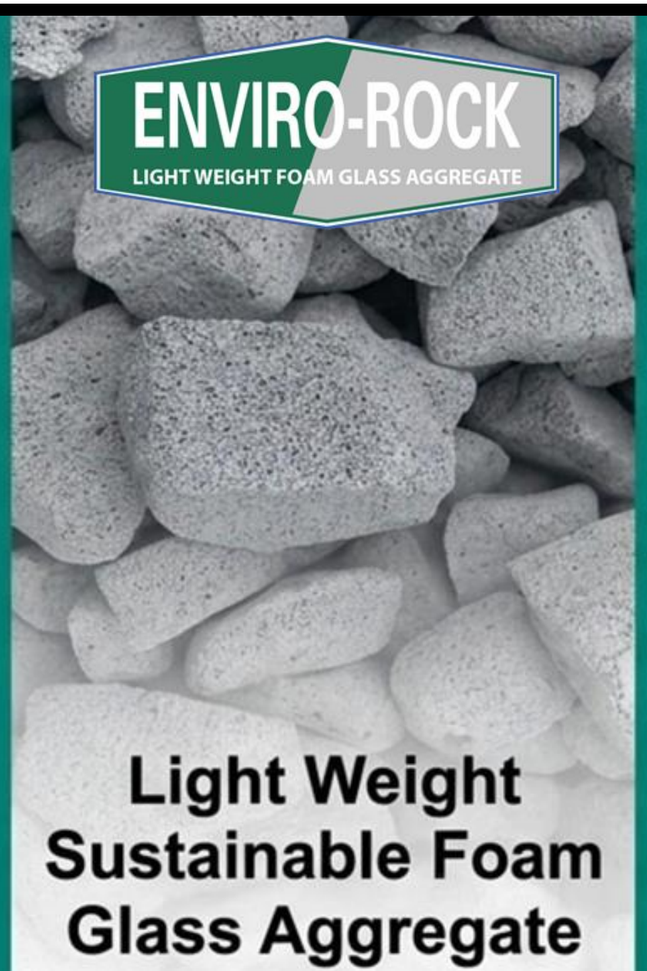


ENVIRO-CORP
RECYCLING

ONE WASTE STREAM

FOUR PRODUCTS, FOUR ECONOMIES









ENVIRO-CORP
RECYCLING

LOOK PAST YOUR OWN INDUSTRY

DO YOU SEE AN OPPORTUNITY?



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Scan to learn more

Explore sustainable glass recycling solutions and economic opportunities with Enviro-Corp.

insurance brokers & advisors

Bradley Wells, LL.B, CAIB
Head of Claims
Purves Redmond Limited

RMWB | COMMUNITY RESILIENCE

After the Fire

How the 2016 Horse River wildfire changed the community — and how the Fort McMurray is preparing for the next one.

Presented By: Matt Clements

May 2016: the Horse River wildfire

The fire began on May 1, 2016, about 7 km outside Fort McMurray.

Within two days, it entered the community and forced a large-scale evacuation.

Homes, businesses and infrastructure were damaged or destroyed.

The event exposed how quickly a forest fire can reach a community at the wildland–urban edge.



2016 Fort McMurray wildfire — wildfire smoke near Highway 63

Resilience was built by people



Wildfire approaching Fort McMurray during the 2016 evacuation

NEIGHBOURS

Residents helped one another evacuate, find shelter and navigate uncertainty.

FIRST RESPONDERS

Firefighters and emergency services worked under intense pressure.

REGIONAL SUPPORT

Communities, Indigenous partners, Industry, governments and volunteers contributed to relief and recovery.

From recovery to risk reduction



Aerial view of Fort McMurray neighbourhoods after the 2016 wildfire

Rebuilding created an opportunity to strengthen homes and community planning.

The 2016 wildfire was reviewed to identify lessons for preparedness and response.

RMWB updated its Wildfire Mitigation Strategy in 2022, with priorities across seven FireSmart disciplines.

Mitigation is ongoing: treated areas and preparedness measures require continued maintenance and review.

Making the forest edge less hazardous

WHAT THE MUNICIPALITY DOES

Thin and prune dense vegetation.

Remove dead trees and woody debris.

Convert selected areas toward less-flammable vegetation.

Maintain treated areas over time.

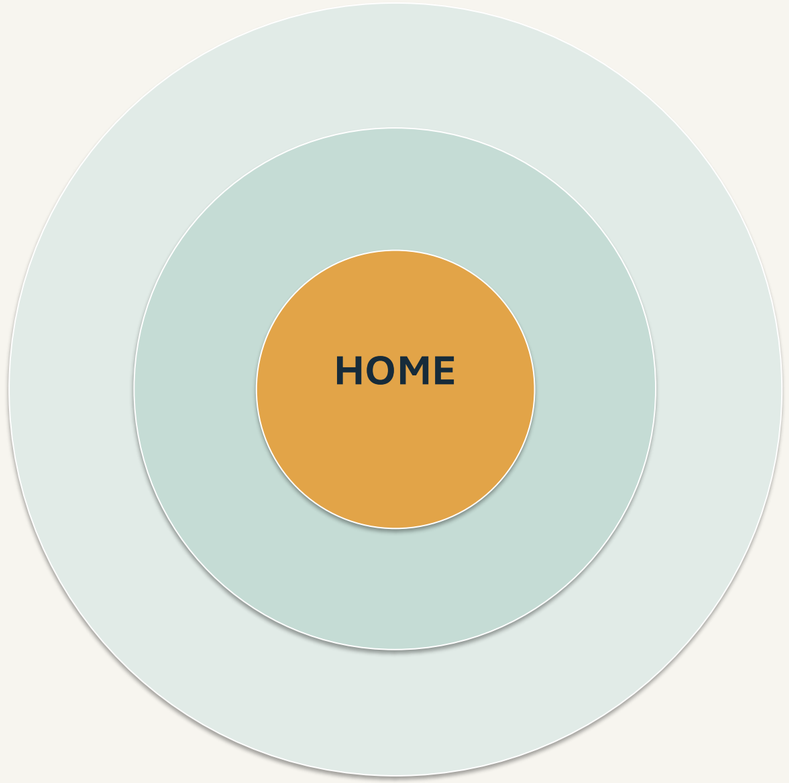
WHY IT MATTERS

Reducing and spacing vegetation can lower the amount and continuity of fuel available to a fire.



FireSmart field work and vegetation assessment in Alberta

FireSmart starts close to home



THE HOME IGNITION ZONE: 30 METRES

0–1.5 m: keep the area beside the home non-combustible; clear leaves and needles.

1.5–10 m: move firewood and other combustibles away; manage shrubs and trees.

Beyond 10 m: reduce dense vegetation and remove dead material where practical.

Use FireSmart home assessments and available rebate programs.

Being ready for the next emergency

Emergency planning: clear alerts, evacuation information and coordinated response.

Cross-training and cooperation: agencies practice working together before a crisis.

Development planning: account for wildfire risk when building or rebuilding near forest.

Public education: residents learn how to prepare homes, people and pets.



Emergency preparedness: a family packing to evacuate.

Adapting after the fire

Staff returned May 6 helping to extinguish the fire in the cell.

HHW was destroyed along with paint and e-waste. This is now stored in sea-cans

Landfill opened May 10th for commercial companies

Collection trucks went around the city and emptied all 3 curbside carts. Had replace over 8000 carts. For the first 2 weeks all 3 carts were used as waste.

2nd scale was installed in the public drop off area for residents only

Residents returned June1-4th

Processed over 19,000 fridges and freezers

No tipping fee for residents until Oct 31

Landfill opened for 12hrs for residents and 24hrs for commercial 7 days a week



Curbside carts destroyed by fire

Continuity planning protects essential services

The Solid Waste Management COOP Plan is designed to keep critical community functions operating during major disruptions.

WHAT THE PLAN DOES

- **Maintains essential services**

  Solid waste services are classified as “Necessary,” with a maximum allowable downtime of one week.

- **Activates when operations are threatened**

  Triggers include wildfire/evacuation risk, facility access problems, major staffing shortages, contractor loss and extended power outages.

- **Provides an escalation structure**

  Four disruption levels range from minor incidents to full activation, with COOP execution beginning at Level 3.

WILDFIRE-SPECIFIC CONTINUITY

- Prioritize staff and public safety, including protection from smoke and hazardous conditions.
- Adjust collection routes for road closures, detours and evacuated areas.
- Protect vehicles and facilities; coordinate with wildfire and emergency management teams.
- Prepare alternate waste reception, storage or disposal arrangements if normal access is disrupted.
- Relocate selected staff to an alternate site when the primary site is unsafe or inaccessible.

Key takeaway: resilience includes keeping everyday services functioning while people and facilities respond to an emergency.

THE TAKEAWAY

Resilience is ongoing work.

Fort McMurray cannot eliminate wildfire risk. It can reduce the fuel, strengthen homes, prepare residents and coordinate a faster, safer response.

SOURCES

Regional Municipality of Wood Buffalo — FireSmart and FireSmart Projects: rmwb.ca/firesmart

RMWB — Wildfire Mitigation Strategy Review (2022): rmwb.ca (PDF)

Government of Alberta — A Review of the 2016 Horse River Wildfire (2017): open.alberta.ca

Government of Alberta — FireSmart: alberta.ca/firesmart

Thank you