



Waste Containment

An Objective Overview



WORLDWIDE



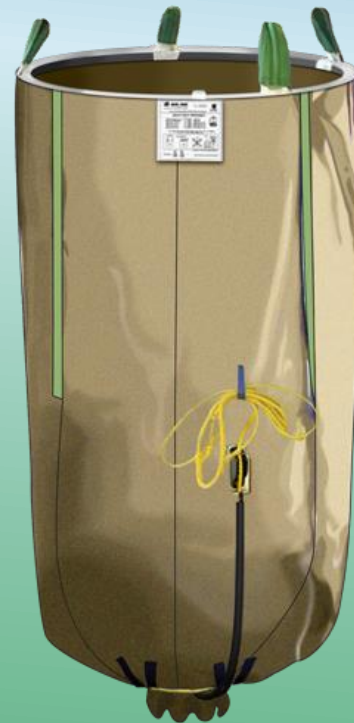
Over 40 countries!

Crane Lifted Semi-Underground Systems for Solid Waste and Recyclables

Crane lifted semi-underground containers are a **new generation** waste solution offering a more **efficient**, and **sustainable** means of collecting waste, recyclables and even organics



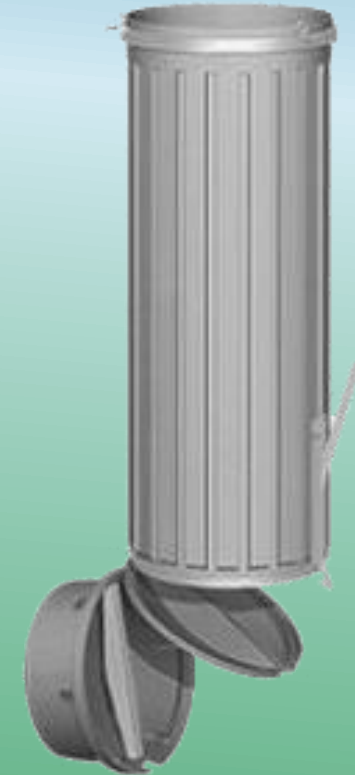
REUSABLE LIFTING LINERS



Lifting Bag
for regular waste



Semi-Hard Lifting Bag
for wet waste



Hard Sided Lifting canister
for organic waste

The Crane-Lifted Advantage

This design benefits from the laws of nature:



- 40% of the container is visible
- 60% is underground

Capacity

- Vertical capacity = small surface area to depth ratio
- New waste falls on old waste
- 1.5 to 2.0 times more capacity due to compaction

vertical capacity
+ underground

= COOLNESS and COMPACTION

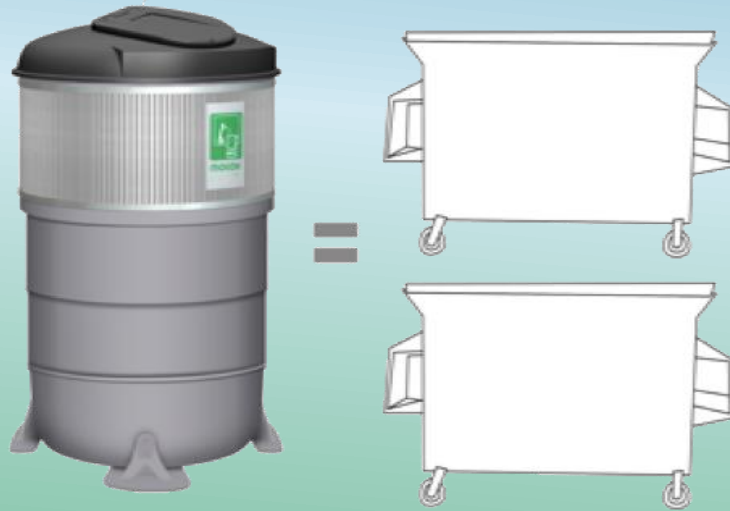
Space Saving

Decrease in the amount of land area needed
by as much as **92%**

1 x M-5000 = a minimum of 55 x 120 litre carts



Space Saving



- One Molok® M-5000 can handle the equivalent multi-residential municipal solid waste of (2) 6 yard surface bins



- One Molok® M-1300 with hard sided lifting liner can do the work of (6) 120 L carts for organic collection

Let's Compare

48 cubic yards with surface containers

VS

48 cubic yards with Semi-underground containers

Approximately the equivalent of 24 parking spaces and aisle



5 X M5000 containers



Total Area =
480 square feet

Less than 8% of the space in comparison

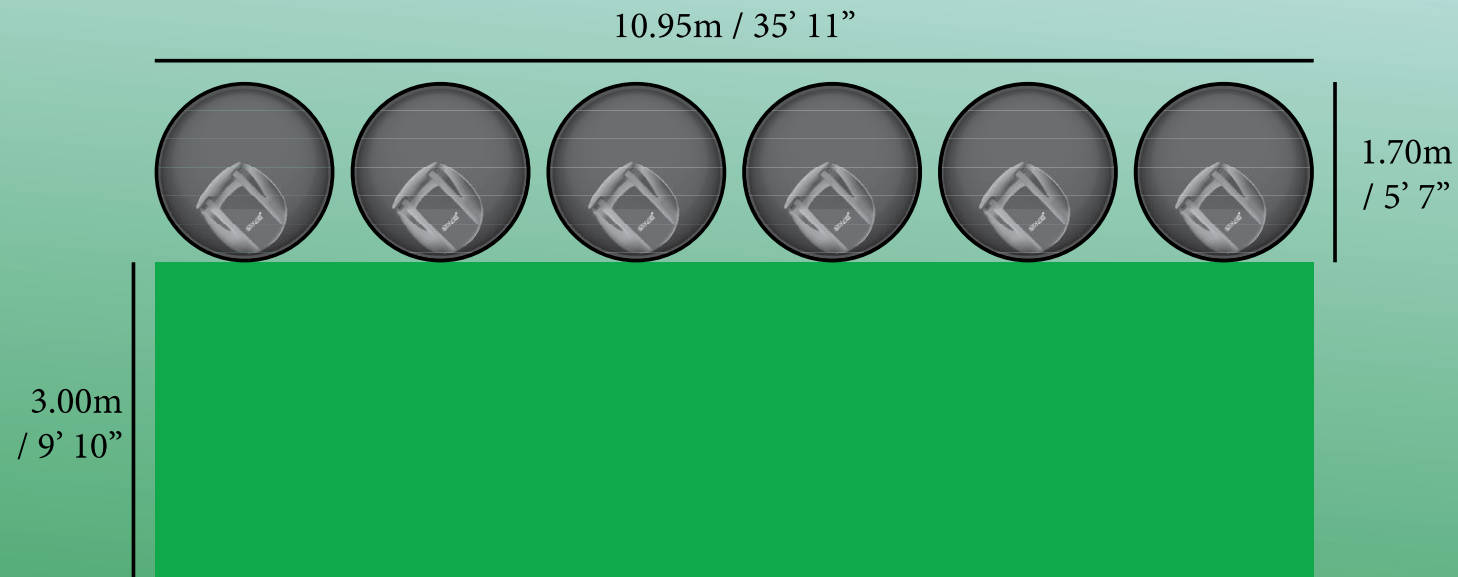
Less than 2 parking spaces and associated aisle

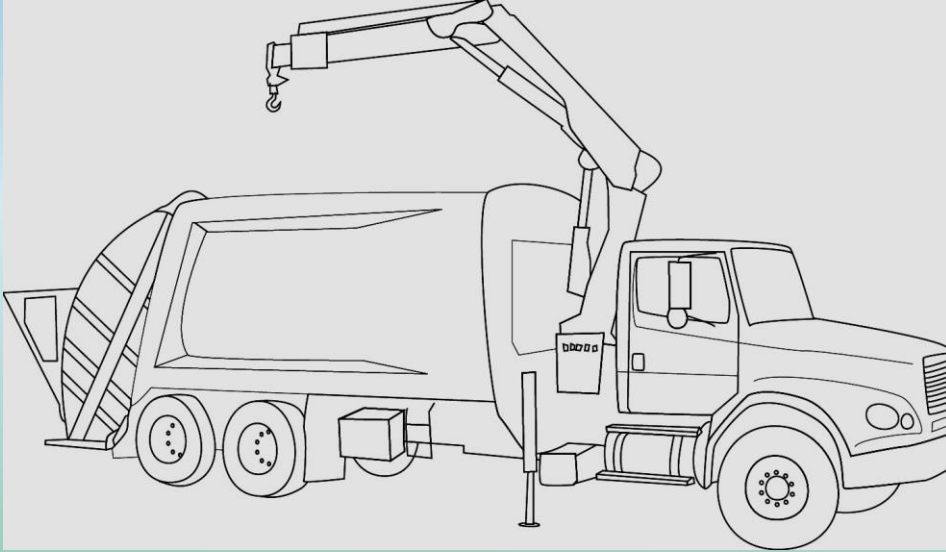
This allows the developer more parking spaces, and/or more Building = greater ROI

The Crane Lifted Semi-Underground

Advantage - *Convenience*

- 12" from walls
- 6" to 12" from each other
- Up to 25' from the collection vehicle







Framing Options

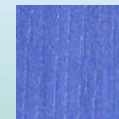


Eon® Plastic

- the look and feel of wood, without the maintenance
- 7 standard colors
- Custom colors available



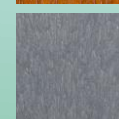
green



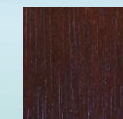
blue



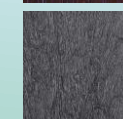
cedar



grey



mahogany



black



Aluminum

- sturdy tongue-and-groove elements



silver



black



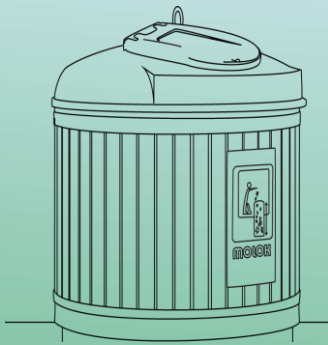
Multi-Residential



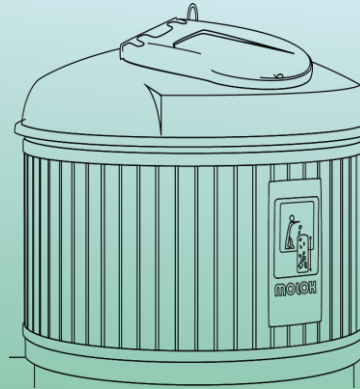
Molok® containers bring many advantages:

- Larger container capacity reduces collection frequency, saving in collection costs
- Space is saved on site to be better used for common areas such as playgrounds, gardens & parking
- Waste containers can be located in an area that is convenient for users, encouraging use and proper sorting
- Easy to use for people of all ages and abilities
- Option to lock the filling lid to reduce unwanted use or vandalism

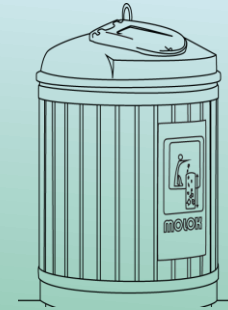
Pre-Pilot Situation



- One M-3000 for garbage (4-cubic yards)
- Collected once a month



- One M-5000 for recycling single stream (6.5-cubic yards)
- Collected every two weeks



- One M1300 for organics (1-cubic yard)
- Collected once a month

“The 20 unit building went from a twice weekly garbage collection and once a week recycling collection to a once a month garbage and organics collection, and once every two weeks recycling collection.” – BioCycle; Nov2002, Vol. 43 Issue 11, p39

Odors Virtually
Eliminated



Partnership



Earth Rangers Centre for Sustainable Technology

Earth Rangers educate children about biodiversity, conservation and sustainability through live shows in schools and at community venues, national television and an online community.

The Earth Rangers Centre for Sustainable Technology (ERC) Certified LEED Gold for New Construction in 2006 and Platinum under LEED for Existing Buildings: Operations and Maintenance

ERC is currently the highest rated building in Canada. The facility operates at less than 9 kWh per square foot, per year and generates 30% of its energy consumption on-site.



Testing odours and temperatures from Molok®
containers containing waste and organics



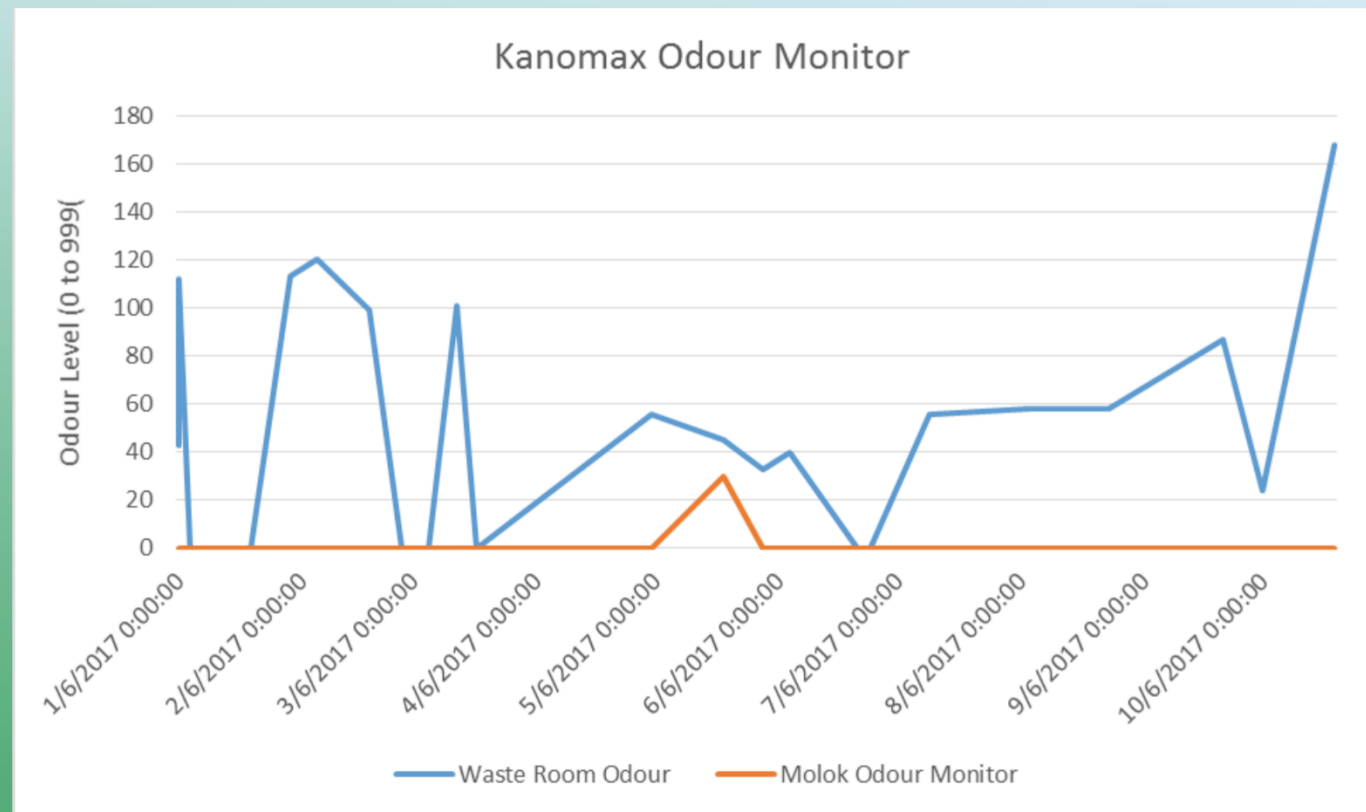
Earth Rangers Centre
for Sustainable Technology



MOLOK
North America Ltd.

Results

Odors were consistently lower in the Molok® container.





Molok[®] Semi-Underground containers have been approved as the system of choice for the local government. A 2013/2014 bylaw preventing the use of temporary metal/wood containers reduced some organizations by more than 40% of their sites, BBBS Montreal did not lose a single Molok[®] site.

The Crane Lifted Semi-Underground Advantage - *Value*

- Containers hold more waste
- Decrease operating costs Reduce environmental impact
 - More capacity = fewer collections = less traffic = less emissions
 - Leak proof
 - Durable
 - Less litter
 - Recyclable and recycled materials





Comparison: Fork-Lifted vs. Crane-Lifted Bins

- **Advantages**

Truck is stopped during collection

Unit is 3 feet high

Durable, stationary

Crane has extended reach

Unit placement flexibility

Built-in enclosure

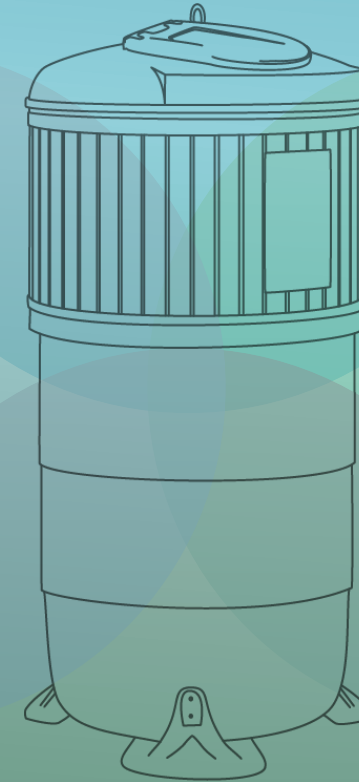
Greater rate of compaction

Flexible
Placement

Safest Option

Durable

Economical



ROLLINS
SINCE 1946