FORM CE RECYCLING

A COLLABORATION & VISION WITH GILFORD DEPARTMENT OF PUBLIC WORKS & NORTHERN NEW ENGLAND ROTARY CLUBS

BY MEGHAN THERIAULT, P.E. GILFORD DIRECTOR OF PUBLIC WORKS



FOAM AKA "STYROFOAM"

98% AIR

> PS (EPS) = POLYSTYRENE (EXPANDED)



RECYCLYING BASICS

		3	4	5	6	
PET Polyethylene terephthalate	HDPE High-density polyethylene	PVC Polyvinyl chloride	LDPE Low density polyethylene	PP Polypropylene	PS Polystyrene	OTHER Other types of plastics
PET is commonly used in commercially sold water bottles, soft drink bottles, sports drink bottles and condiment bottles.	HDPE is commonly used in milk and juice bottles, detergent bottles, shampoo bottles, grocery bags and cereal box liners.	PVC can be flexible or rigid, and is used for plumbing pipes, clear food packaging, shrink wrap, plastic children's toys, tablecloths, vinly flooring and blister	LDPE is used for dry cleaning bags, bread bags, newspaper bags, produce bags, "paper" milk cartons and hot/cold beverage cups.	PP is used to make yogurt containers, deli food containers, furniture, luggage and winter clothing insulation.	PS is used for toys, rigid packaging, refrigerator trays and CD cases. Also used to form Expanded Polystyrene EPS used for take out containers,	Any plastic item not made from 1-6 plastics is lumped together as a number7 plastic and is used for things like CD's, baby bottles and headlight lens.
J.	Æ	packs.			cups/plates and packing chips.	Y

EXCITING INITIATIVE & PARTNERSHIP



6



NH NETWORK PLASTICS WORK GROUP

Statewide volunteer group focused on impact and initiatives related to plastics waste reduction and the petrochemical industry.





FOAM CYCLE, LLC

Company with patented foam densifier unit out of NJ.

NORTHERN NE ROTARY

Past District Governors #7850 Mike Carrier, #7870 John Siemienowicz and #7780 Dick Hall & others rotary members.

GOALS OF FOAM RECYCLING IN NORTHERN NEW ENGLAND







REDUCE FOAM WASTE IN LANDFILLS

SAUE MONEY ON TRASH DISPOSAL COSTS

THRU RECYCLING

GENERATE REVENUE

REDUCE PLASTIC POLLUTION



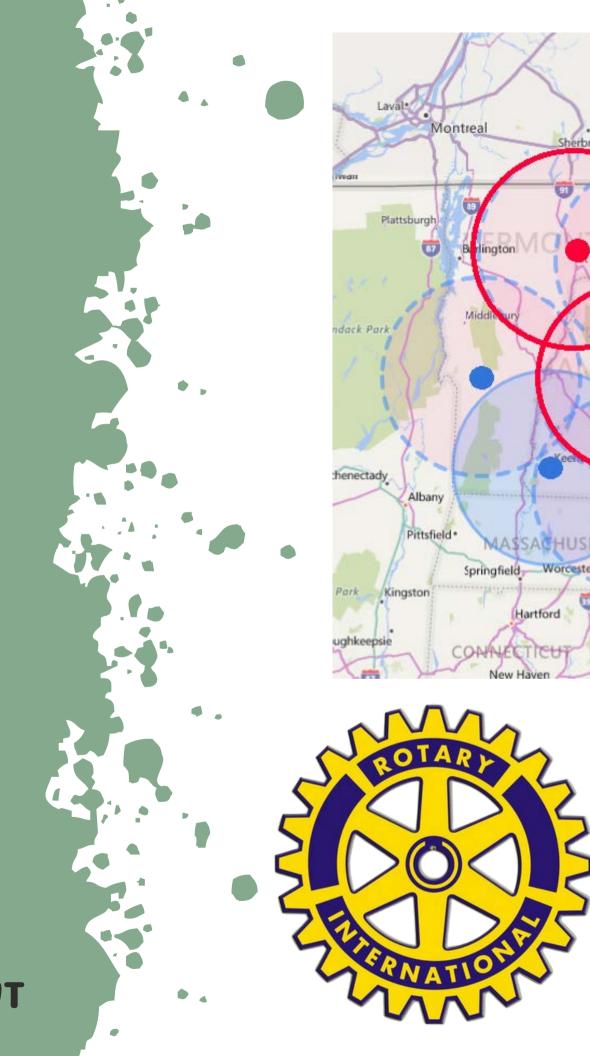
HUB AND SPOKE CONCEPT

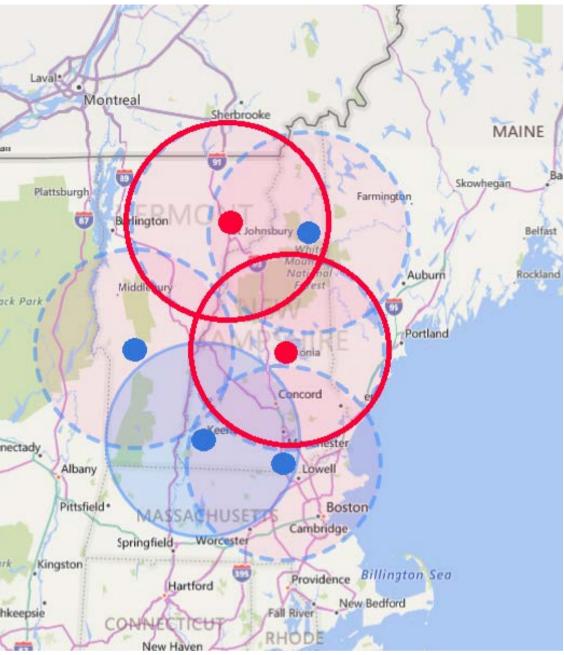
<u>HUB SITE</u> - Location for foam drop off and foam densification unit, such as a municipality, private business or regional solid waste center.

<u>SPOKE SITES</u> - Location for loose foam collection via organized events, mobile units or collection containers and managed by Rotary Clubs.

SPOKE sites would deliver loose foam to nearest HUB Location.

GILFORD DPW NOW IST NH HUB LOCATION NEK WASTE MGMNT DISTRICT - LYNDON, VT







SPOKE #I COLLECTION EVENTS

ORGANIZED BY ROTARY CLUBS

• Hold regional or individual community event

FLEXIBLE

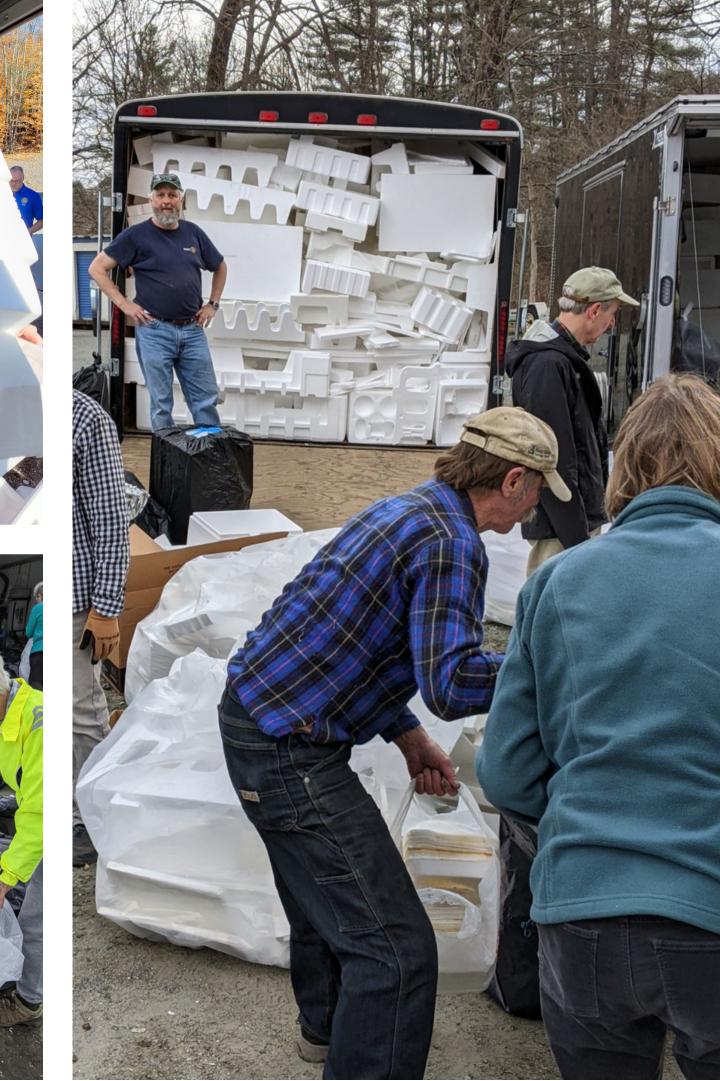
 Hold as few or as many events as desired (monthly/quarterly/annually)

COMMUNITY BUILDING

- Educate community on recycling right
- Collaborate with DPW, Town Committees or other interested groups.

CONS

- Requires large volunteer effort
- Need trailer(s) for collections











SPOKE #2 COLLECTION BINS

PROS

- Reasonable price < \$3,000
- Locate permanently or move around community.
- Lightweight bags ~ 20lbs easy to transport to HUB.

CONS

- Need to monitor and swap out once filled.
- Could get contaminated with unacceptable items when in remote unstaffed location.

SPOKE #3 COLLECTION BAGS

COORDINATE WITH LOCAL TRANSFER STATION

• Collect weekly or daily with town staff or volunteers

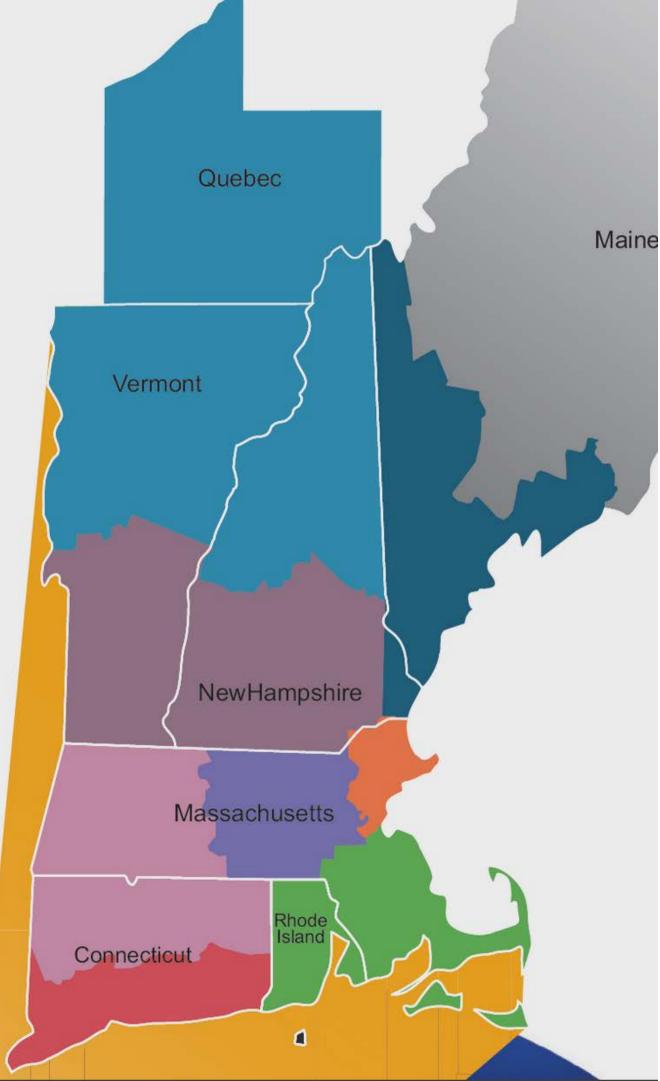
PROS

- Very inexpensive
- Easy to set up and accessible
- Minimal volunteer effort
- Smaller amounts to transport
- Monitor contamination closely

CONS

• Need buy-in from town or town staff







SPOKE #4 MOBILE COLLECTION

PROS

- DG interest in this model
- Added flexibility to move unit throughout district (DPW or schools)
- Share with clubs / pool funding
- Simplified transport
- Possibly less volunteer effort

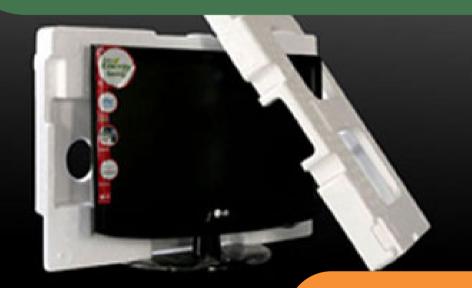


CONS

- Expensive \$18,000+
- Limited collection volume



WHAT CAN BE COLLECTED?





ALL FOOD SERVICE FOAM MUST BE CLEAN AND FREE FROM RESIDUAL FOOD













UNACCEPTABLE FOAM ITEMS

















GILFORD DPW'S ROLE AS HUB LOCATION

COLLECT

PROCESS









STORE

WHAT HAPPENS AFTER INGOTS ARE SOLD?





HOW YOUR COMMUNITY CAN GET INUOLUED



EDUCATION Promote program both locally and regioanlly



TRANSPORT Offer to transport foam back to Gilford or find volunteers



COLLECTION

Collect at your transfer station or organize event



FUNDING

Budget for future collection bin or consider becoming HUB

STEPS TO GET HERE...

JAN-APRIL

MAY-JUNE

INTRO & GRANT

- Foam Action Group Meetings
- Research
- Find partners
- BOS approval
- FRC Grant application



LOCAL SETUP

- Site setup & electircal
- Delivery of unit & training
- Create public education campaign
- Promote to Gilford residents & Rotary Club



LAUNCH

- Start foam collection in Gilford
- Obtain NHDES permit
- Collaborate with LRPC on grant writing
- Discuss Rotary club outreach plan.



JULY-SEPT

ONGOING

- Fine tune logistics on collection events and
 - transportation

EXPAND

- Regional outreach to clubs & DPWs
- Fundraise / grant applications

GILFORD DATA JULY - DEC





REMOUED EQUIVALENT OF 400 CY FOAM FROM MSW STREAM

EQUIVALENT OF IO

40 YARD CONTAINERS

INGOT BRICKS ----3,200 LBS+ GILFORD ONLY

PRODUCED 77

SAVED \$2,500 IN HAULING OVER 6 MONTHS ---ESTIMATE \$6,000 SAVINGS IN 2023 ACCEPTED FOAM FROM 6 COMMUNITY EVENTS THROUGHOUT NH



TOWNS CURRENTLY PARTICIPATING

MOULTONBOROUGH

LEBANON

connish

HOLDERNESS

HANOUER

TAMWORTH











START COLLECTING **FOAM IN YOUR** COMMUNITY **TODAY!**













"WHEN YOU DO NOTHING, YOU" FEEL OVERWHELMED AND POWERLESS.

BUT WHEN YOU GET INVOLVED, YOU FEEL THE SENSE OF HOPE AND ACCOMPLISHMENT."

-MAYA ANGELOU

BE THE CHANGE YOU WANT TO SEE IN THE WORLD!

THANKS FOR YOUR TIME!



Meghan Theriault, P.E. **Gilford Public Works Director**



dpwdirector@gilfordnh.org



603-527-4783



www.gilfordnh.org/recycleright













FOR MORE INFO ON FOAMCYCLE: Visit www.FOAMCYCLE.com