



RECYCLYING BASICS





HDPE

High-density

polyethylene











terephthalate

HDPE is commonly used in milk and juice bottles, detergent bottles, shampoo bottles, grocery bags and cereal box liners.



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.



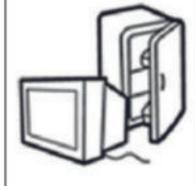
PVC can be flexible or rigid, and is used for plumbing pipes, clear food packaging, shrink wrap, plastic children's toys, tablecloths. vinly flooring and blister packs.



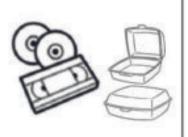
LDPE is used for dry cleaning bags, bread bags, newspaper bags, produce bags, "paper" milk cartons and hot/cold beverage cups.



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, cups/plates and packing chips.



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.



EXCITING INITIATIVE & PARTNERSHIP



FOAM CYCLE, LLC

Company with patented foam densifier unit out of NJ.



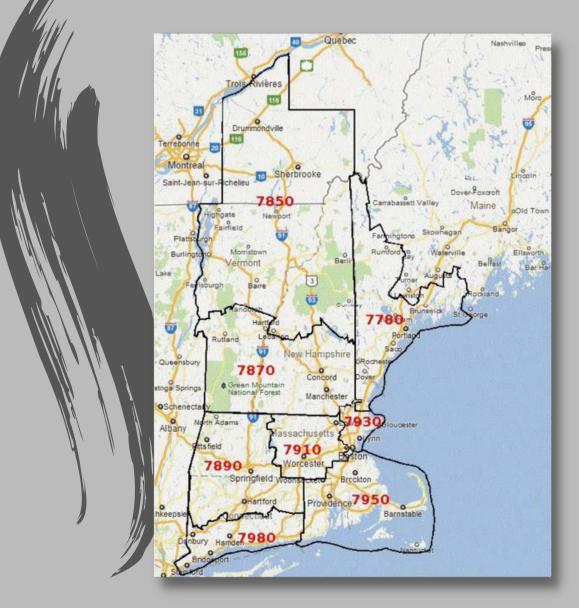
NH NETWORK PLASTICS WORK GROUP

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



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



GENERATE REVENUE THRU RECYCLING



REDUCE PLASTIC POLLUTION

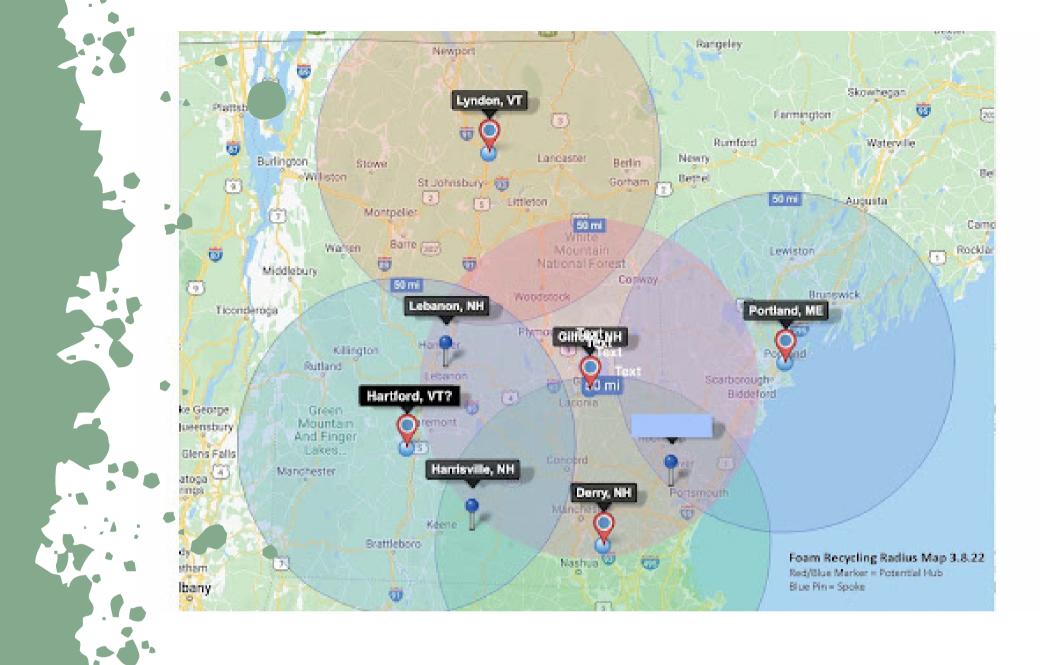
HUB AND SPOKE CONCEPT

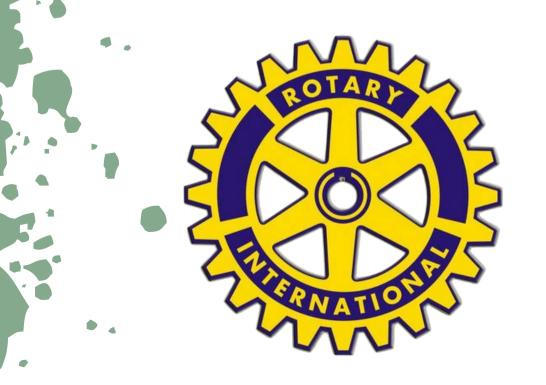
HUB SITE - Location for foam drop off and foam densification unit, such as a municipality, private business or regional solid waste center.

SPOKE SITES - 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 <u>Location</u>.

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







SPOKE#1 COLLECTION EUENTS

ORGANIZED BY ROTARY CLUBS

Hold regional or individual community event

FLEXIBLE

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

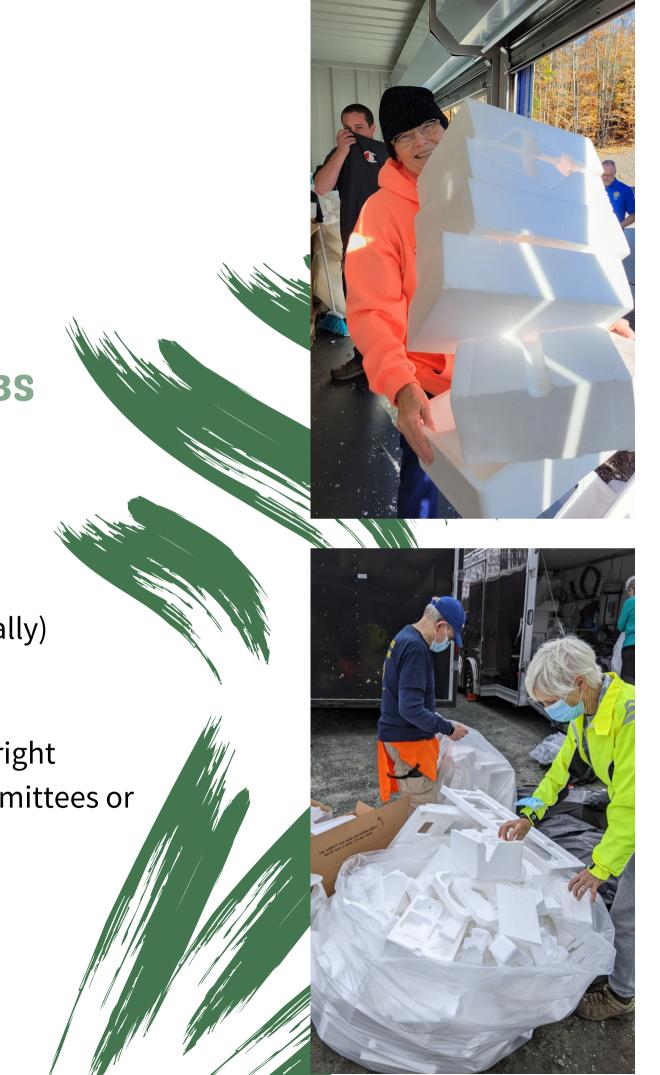
COMMUNITY BUILDING

• 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 or 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 SERUICE FOAM MUST BE CLEAN AND FREE FROM RESIDUAL FOOD

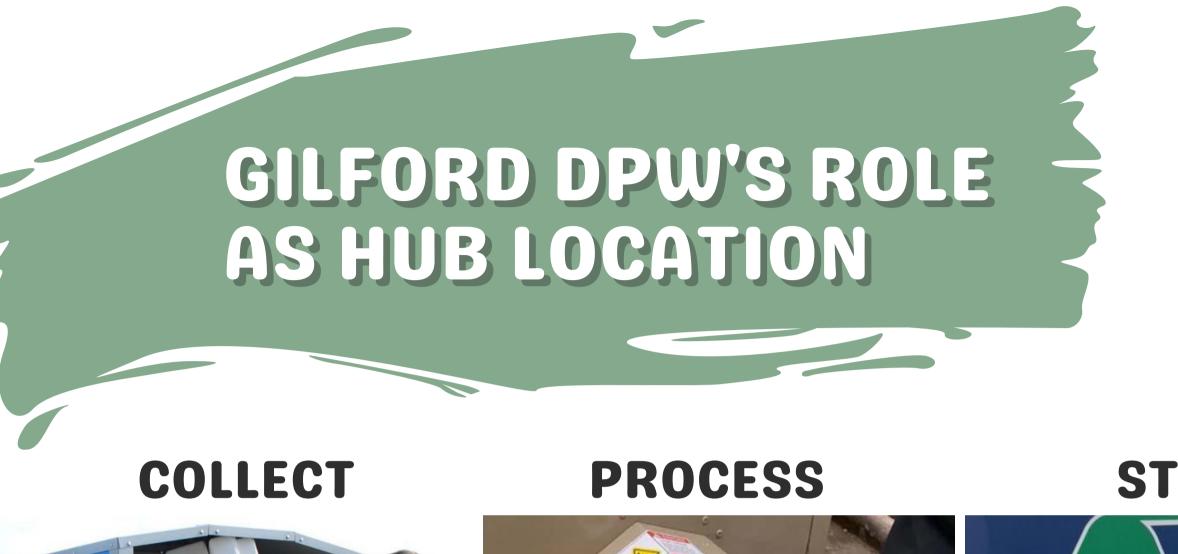






















POSITIUE

REGIONAL

IMPACT







YOUR CLUB/GROUP ROLE IN PROGRAM



EDUCATION

Promote program both locally and regionnlly



COLLECTION

Volunteer at DPW or other community collection events



TRANSPORT

Offer to transport foam back to Gilford



FUNDING

Possible funding efforts to purchase unit, bags or bins.

STEPS TO GET HERE....

JAN-APRIL

MAY-JUNE

JULY-SEPT

ONGOING



- 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.

EXPAND

- Fine tune logistics on collection events and transportation
- Regional outreach to clubs & DPWs
- Fundraise / grant applications



REMOUED EQUIVALENT OF 400 CY FOAM FROM **MSW STREAM**

EQUIVALENT OF 10 40 YARD CONTAINERS **PRODUCED 77 INGOT BRICKS**

3,200 LBS+ GILFORD ONLY



SAUED \$2,500 IN HAULING OVER 6 MONTHS

ESTIMATE \$6,000 SAUINGS IN 2023



ACCEPTED FOAM FROM 6 COMMUNITY **EUENTS** THROUGHOUT NH



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