TRIUMVIRATE ENVIRONMENTAL

Plastics4Purpose™

Steve Todisco, Vice President of Sustainability

What is Plastics4Purpose™ ?

A sustainable, cost-effective
solution for your hard-to-recycle plastics

Plastics4Purpose™ Benefits

Removing material from landfill & incineration

Reducing the need to harvest traditional lumber for certain applications

Reducing the need to manufacture virgin plastics

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High Density Polyethylene

2

HDPE

- 5-Gallon Buckets
- Drums (All Sizes)
- Pallets (Certain Types)
- Manufactured Parts
- Molded Parts
- Large Water Bottles
- Trash Bins
- Consumer Product Bottles
- Medicine Bottle (Certain Types)
- Shipping Containers
- Crates
- Totes

Low Density Polyethylene

4

LDPE

- Films
- Stretch Wrap
- Equipment Parts
- Bottles
- Bread Bags
- Dry Cleaning Bags
- Garbage Bags
- Heavy Duty Bags
- Plastic Food Wrap
- Recycling Bins
- Some Toys

Polypropylene

5

PP

- Pipette Tip Trays
- Pipette Tips
- Bottle Caps
- Trash Bins
- Yogurt Containers
- Consumer Product Bottles
- Consumer Food Packaging
- Research Vessels & Containers
- Margarine Containers
- Medicine Bottles
- Microwave Ovenware
- Straws

Favorable Plastics

2 HDPE 4 LDPE 5 PP

Plastics Pending Review

1 PET 3 PVC 6 PS 7 Other

Polyethylene Terephthalate

1

PET

- Juice/Soft Drinks/Water Bottles
- Shampoo/Conditioner Bottles
- Liquid Hand Soap Bottles
- Dried Spice Bottles
- Household Cleaners
- Frozen Food Packaging
- Cosmetics
- Bakery Products

Polyvinyl Chloride

3

PVC

- Rigid Pipes
- Wire Insulation
- Commercial/ Residential Flooring
- IV Bags
- Garden Hoses
- Shower Curtains
- Sporting Equipment
- Interior Door Panels

Polystyrene

6

PS

- Car Parts
- Medical Test Tubes
- Culture Trays
- Petri Dishes
- Coffee Cups
- Packing Foam
- Take Out Containers
- Building/Home Insulation

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1. Plastic waste is screened for recyclability.

2. Recyclable plastic waste is prepared for processing.

3. Waste is physically separated to remove incompatible compounds, such as metals or glass.

4. Materials are compounded, plasticized, and blended.

5. Blended mixture is extruded into molds to create the final lumber product.

6. Finished plastic lumber is cooled, cut, and undergoes a quality audit.

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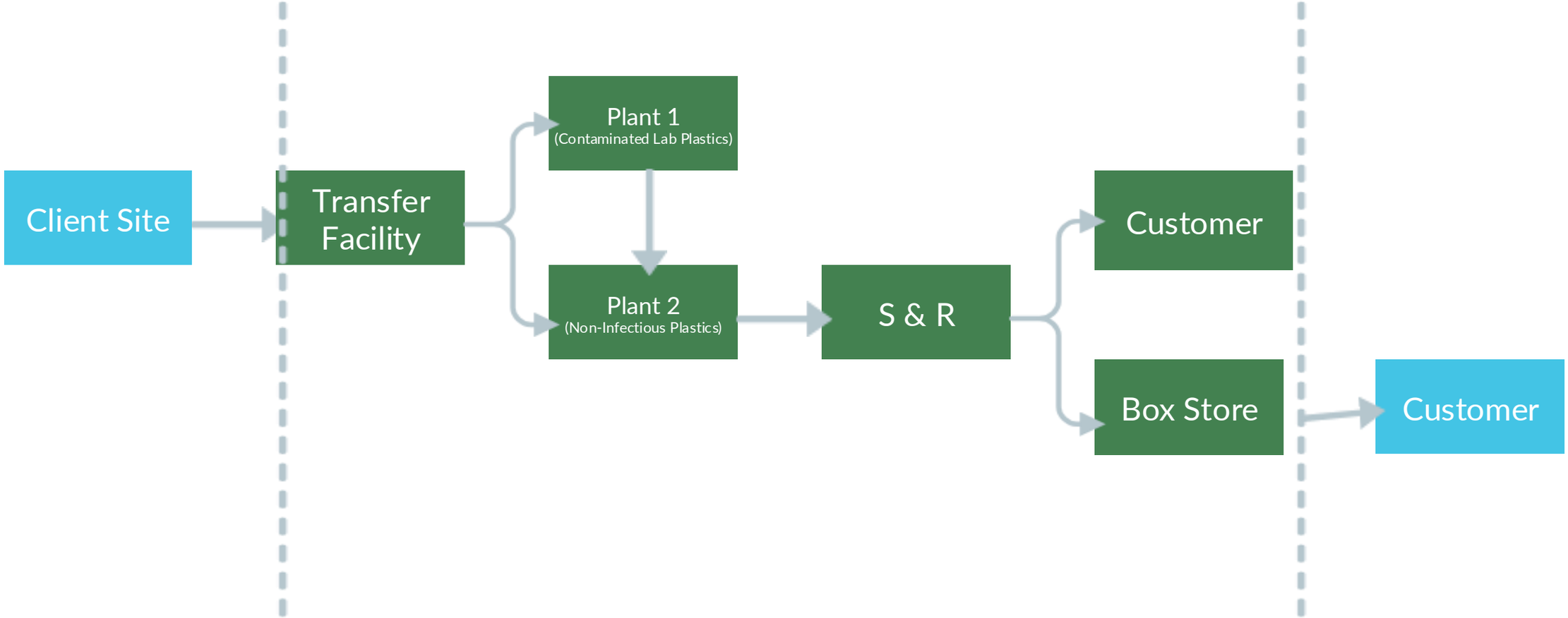
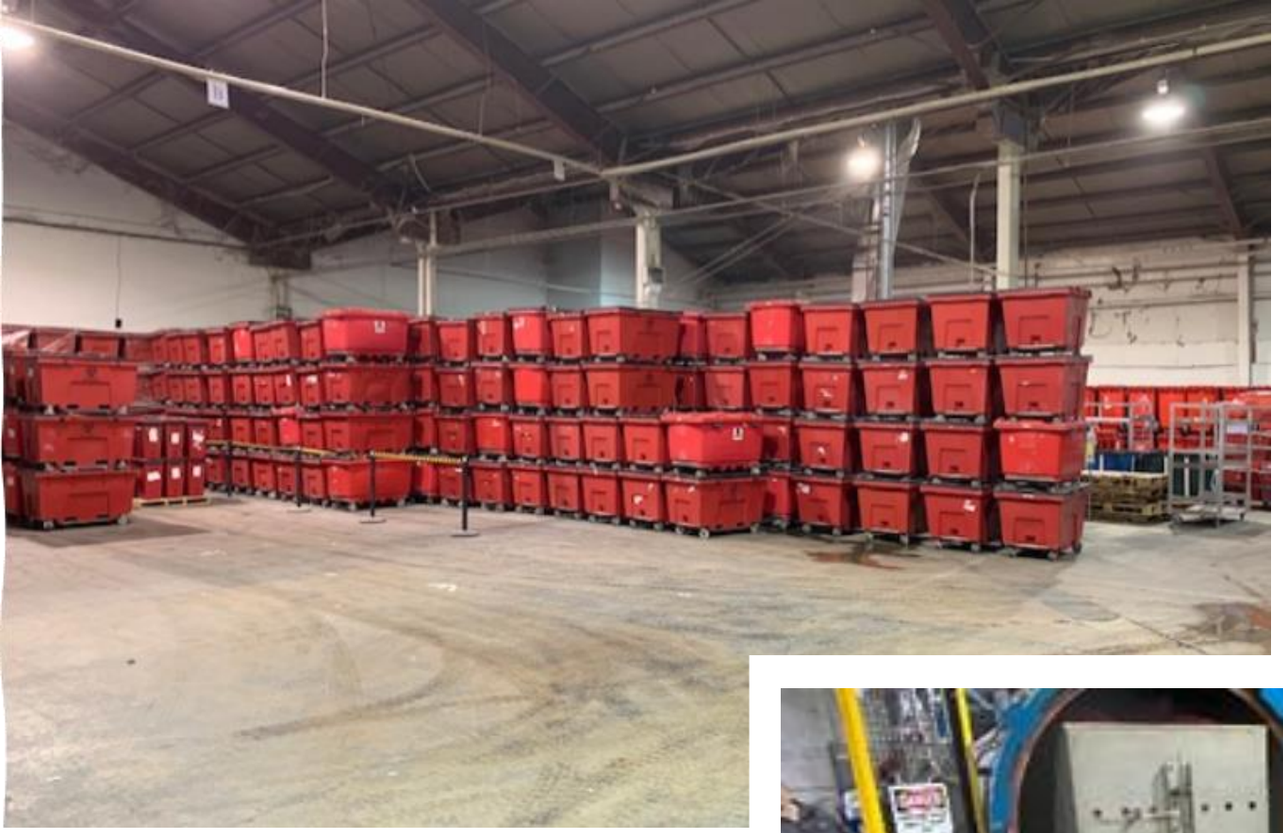
Waste Journey





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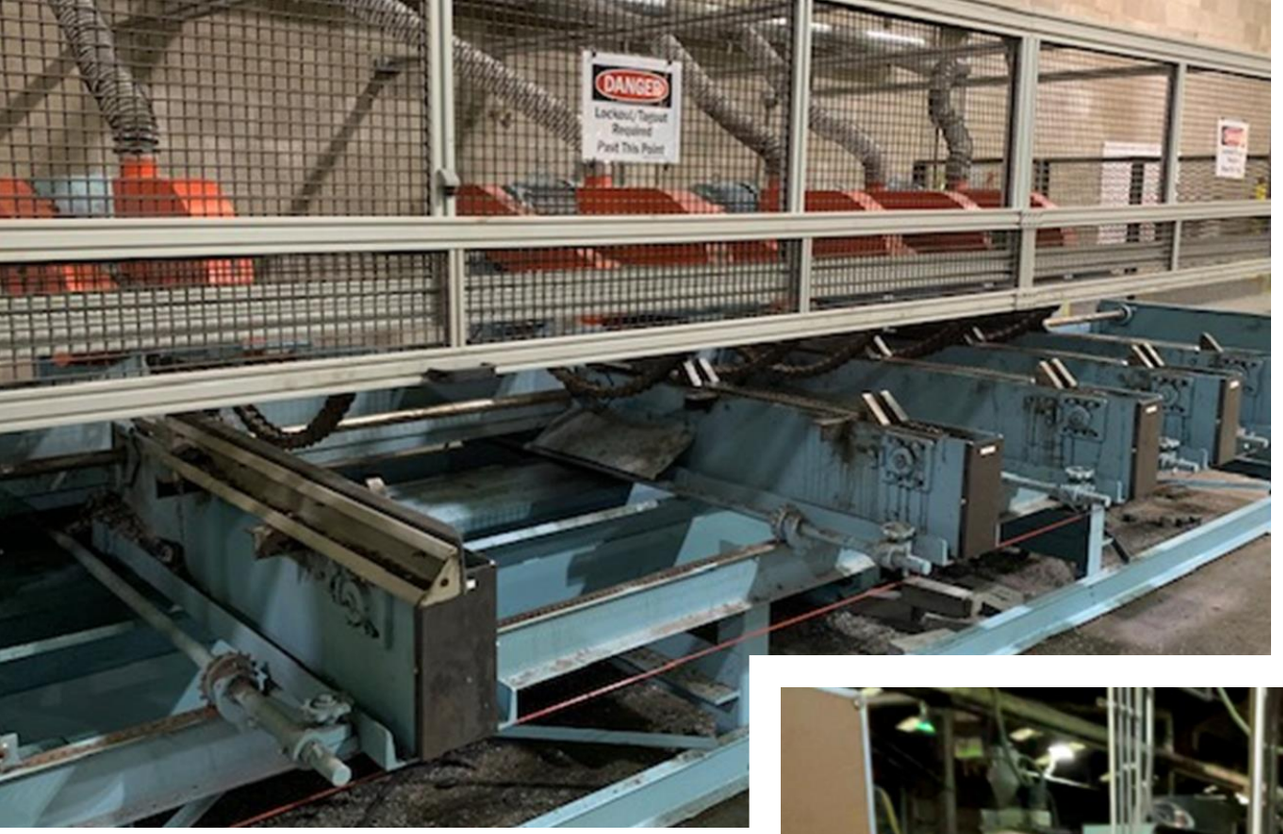
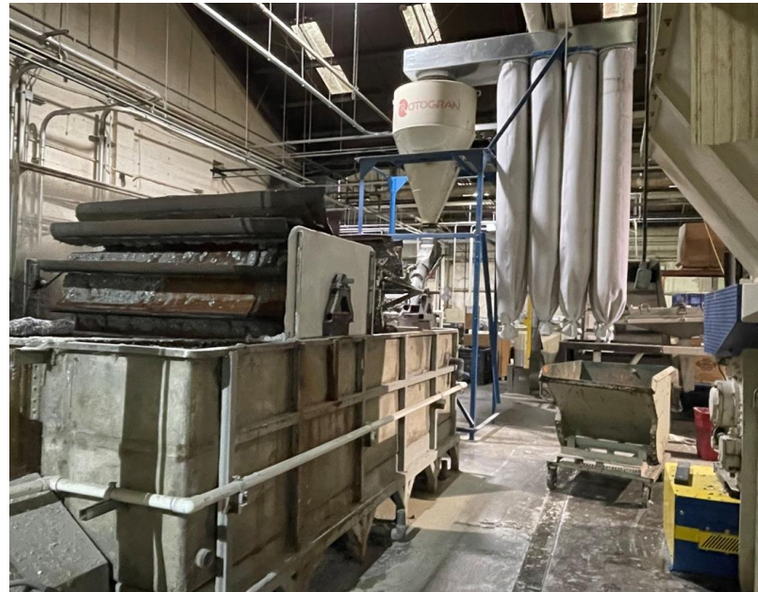
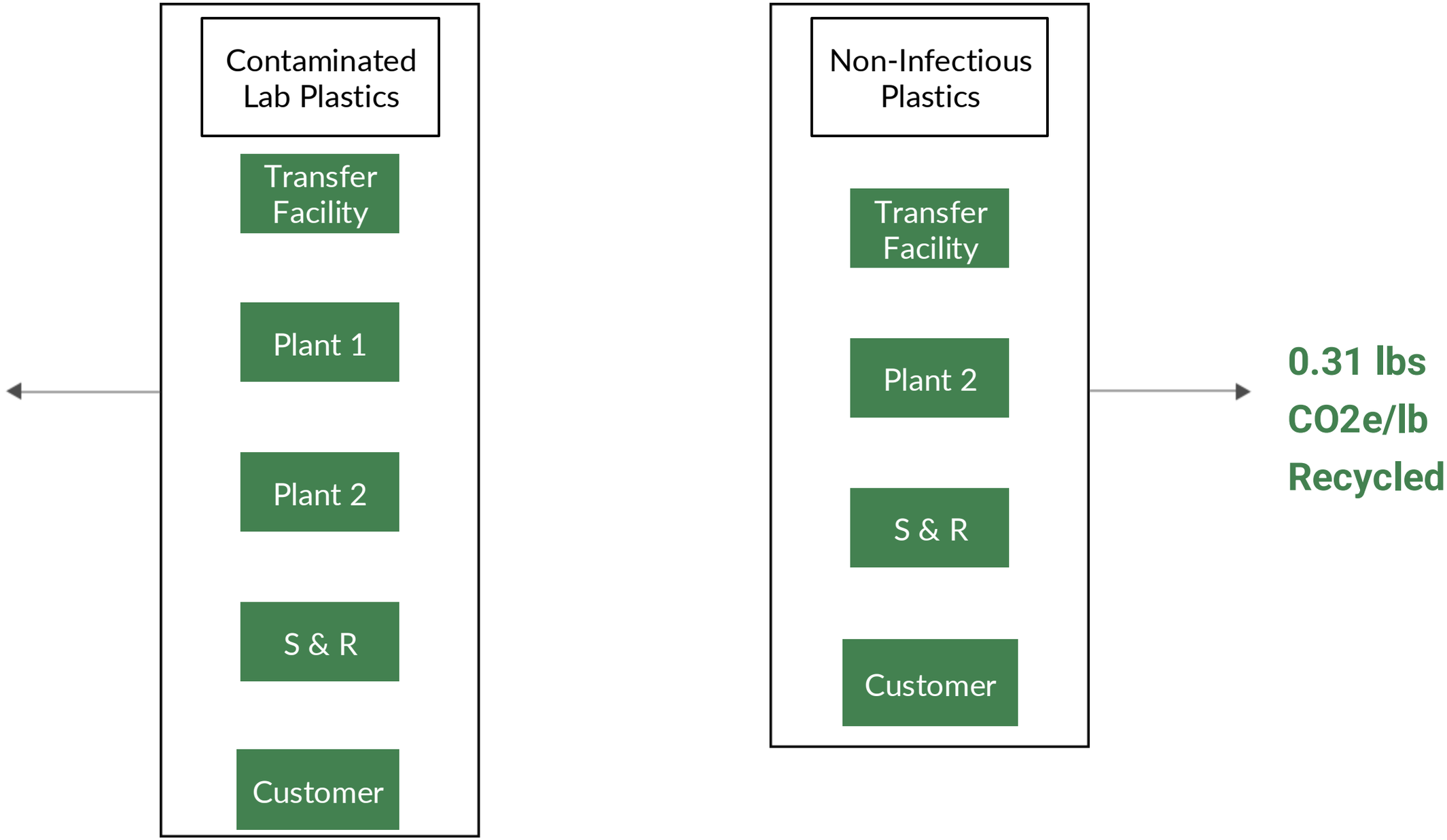

DANGER
Lockout/Tagout
Required
Past This Point



Waste Pathways



How we compare

Landfill

Incineration

Plastics4Purpose™

*As of 1/1/2025

† U.S. Environmental Protection Agency. (2024). Waste Reduction Model (WARM).
†† International Energy Agency. (n.d.). Municipal Solid Waste Incineration CO_2 Estimates.

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What was Triumvirate's Contribution?

17,389 Metric Tons

Of CO2 Avoided

By diverting waste away from landfill

Equivalent to charging 1,405,844,543 smart phones

17,385,616 lbs

of waste

was successfully diverted from landfill and incineration for the production of plastic lumber

20,018

Trees

Saved by replacing traditional lumber with plastic lumber

985

Miles

Of plastic lumber boards created

520,470

Boards

Were made from recycled plastics

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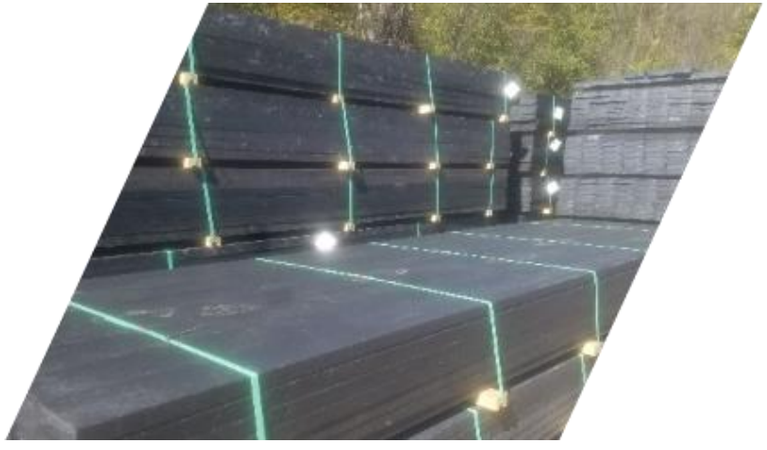

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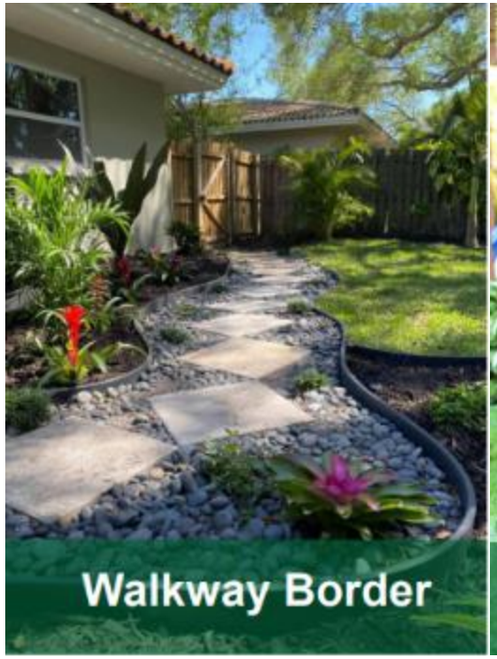
Let's See What Your Plastics Turned Into . . .


Raised Flower Bed & Retaining Wall


Bocce Court Border

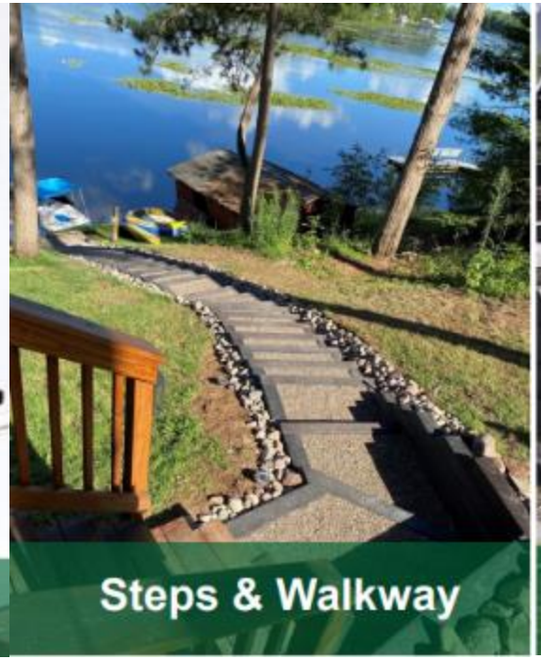

Parking Lot Edging

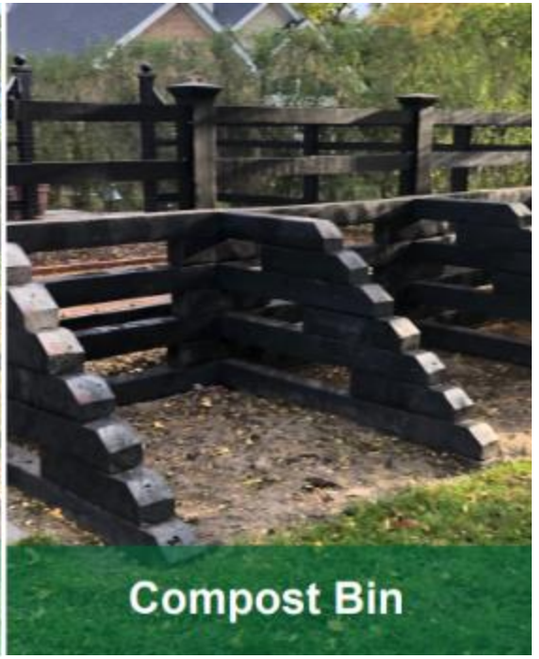

Retaining Wall


Walkway Border


Garden Edging


Planter


Steps & Walkway


Compost Bin

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Thank You!

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Q&A