



Welcome to
Northeast Resource
Recovery Association's

Summer Webinar Series

Need Professional Credits?



- Receive 1 hour of professional development credit from NRRA for viewing this webinar.
- Webinars are recorded and made available for those who registered.
- Complete the survey at the end and connect with NRRA.
- Continue your learning with webinars all summer long!
- Visit our new website at: nrrarecycles.org



For Registration:
nrrarecycles.org

Operator Track - Wednesdays 9:00 am - 10:00 am		
Date	Webinar	Presenters
July 29, 2020	Using Processed Glass Aggregate in Road and Infrastructure Projects	Reagan Bissonnette and Maddie Dilonno, NRRRA
August 5, 2020	Legislative Updates	Josh Kelly, VTDEC; Ariela Lovett, MA Mun. Assoc.
August 12, 2020	Educate, Don't Contaminate! A Toolkit to Clean up Recycling	Lucy Perkins and Matt Grondin, ecomaine
	Break	
August 26, 2020	Extended Producer Responsibility	Terri Goldberg, NEWMOA; Megan Pryor, MEDEP
September 2, 2020	Tricks of the Trade	Joan Cudworth, Hollis; Ed Walsh, Rollinsford; Brian Patnoe, Littleton, NH
September 9, 2020	MA Mattress Recycling Incentive Grant Program	Rachel Smith, MADEP



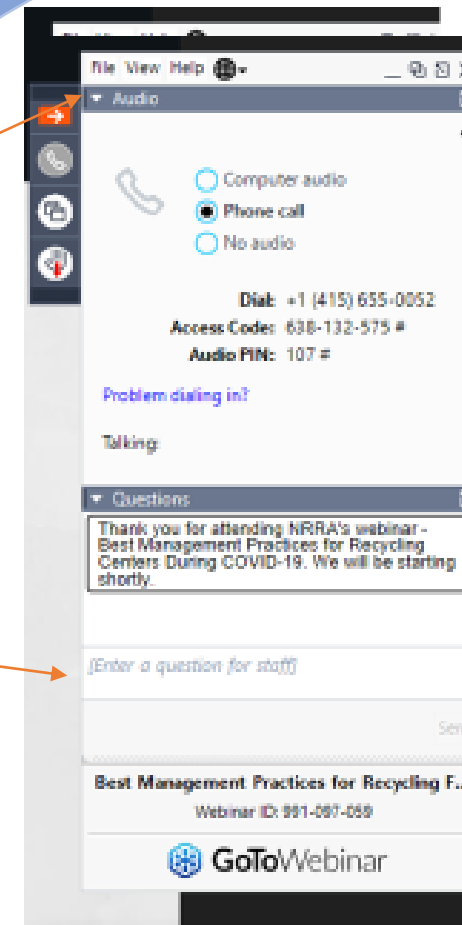
For Registration:
nrrarecycles.org

Educator/Community Track - Fridays 12:00 - 1:00 pm		
Date	Webinar	Presenters
July 24, 2020	Food: Too Good to Waste	Brenna Toman, CVSWMD
July 31, 2020	The Messy Truth about Garbage	Cindy Sterling, NRRRA
August 7, 2020	The 6th R: Cultivating a Culture of Repair	Ollie Cultrara and Cassandra Hemenway, ACSWMD
August 14, 2020	Medical Waste: Needles, Pharmaceuticals, Vaping and More	Cindy Sterling, NRRRA
August 21, 2020	Event Waste Reduction: Thinking Outside the Bin for Your Event Part I	Cindy Sterling, NRRRA
August 28, 2020	We Need to Think About Clothing Differently	Joe Whitten, Apparel Impact
September 4, 2020	Cafeteria Sorting Stations	John Jose, CVSWMD
September 11, 2020	Event Waste Reduction: Styling Your Event Recycling Plan Part 2	Cindy Sterling, NRRRA



GoToWebinar Setting the Table

- You will not be able to be heard by the presenters or other participants on GTW.
- If you cannot hear the presenters, click on audio and computer audio. If that does not work, try clicking on phone call.
- We hope you ask questions and the presenters will answer them if time allows. Click on Questions and keep it short!



About NRRA

- Recycling nonprofit
- 400+ members,
primarily municipalities
- Founded nearly 40
years ago



Cooperative Marketing & Purchasing



- Enable communities to manage their own recycling programs
- 40 programs, including single stream and municipal solid waste
- Connect sellers of recyclables to purchasers



Education & Technical Assistance

- Workshops
- Facility tours
- Annual conference
- Technical assistance
- School Club programs





The webinar will begin soon!



Vermont Waste Capacity

Agency of Natural Resources

Department of Environmental Conservation

Solid Waste Management Program

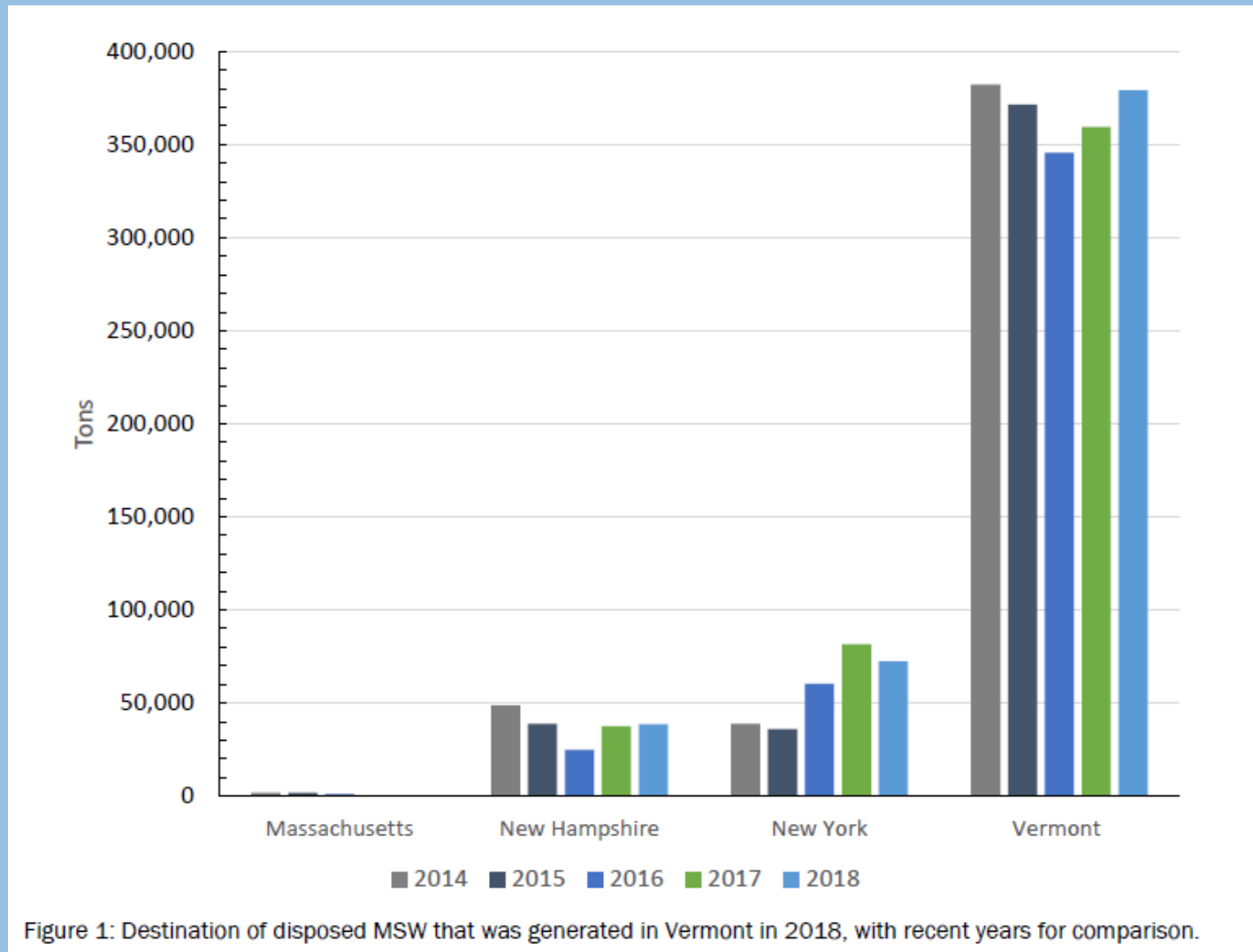




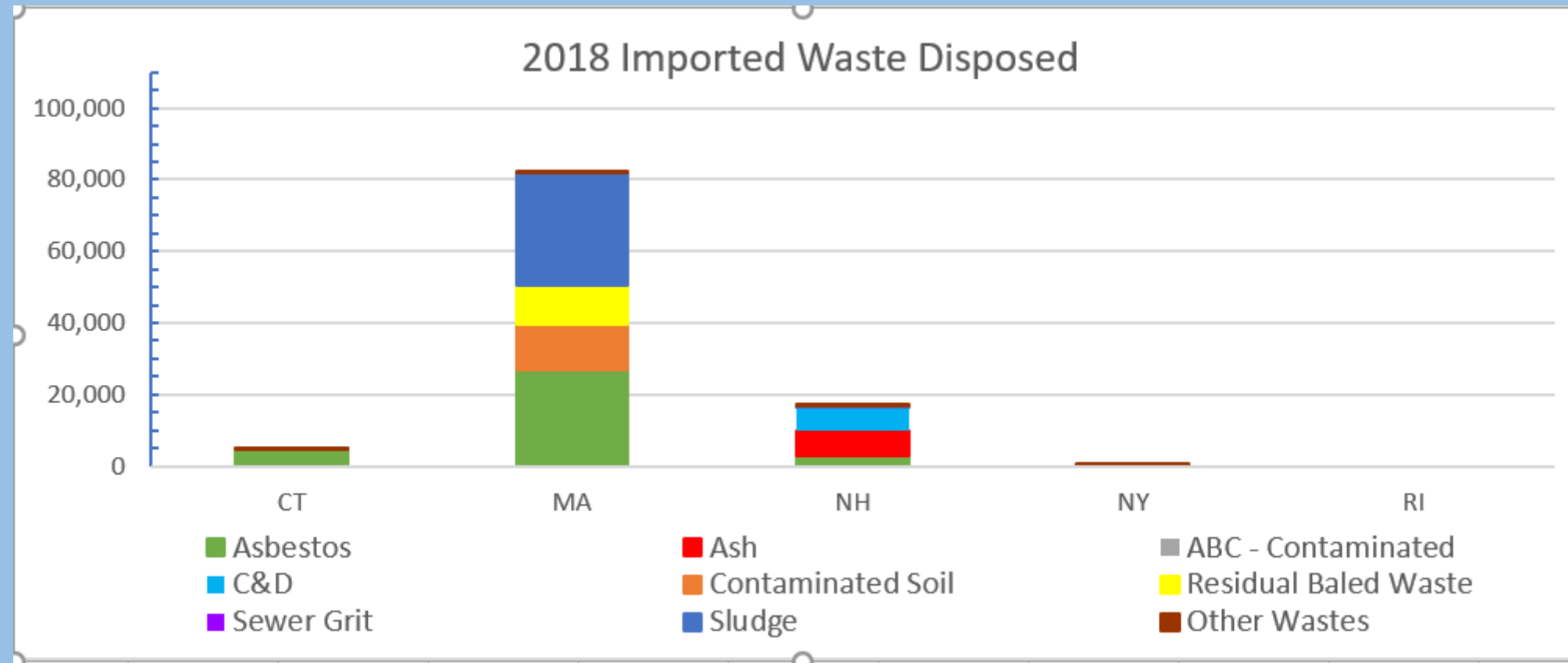
Capacity is based on Customer Service Area

- 623,000 People.
- 501,000 tons of Vermont waste produced per year.
- 532,000 tons of waste disposed of per year.
- Current landfill expected to last until October, 2021.

Destination of Waste Generated in Vermont



Waste Imported to Vermont



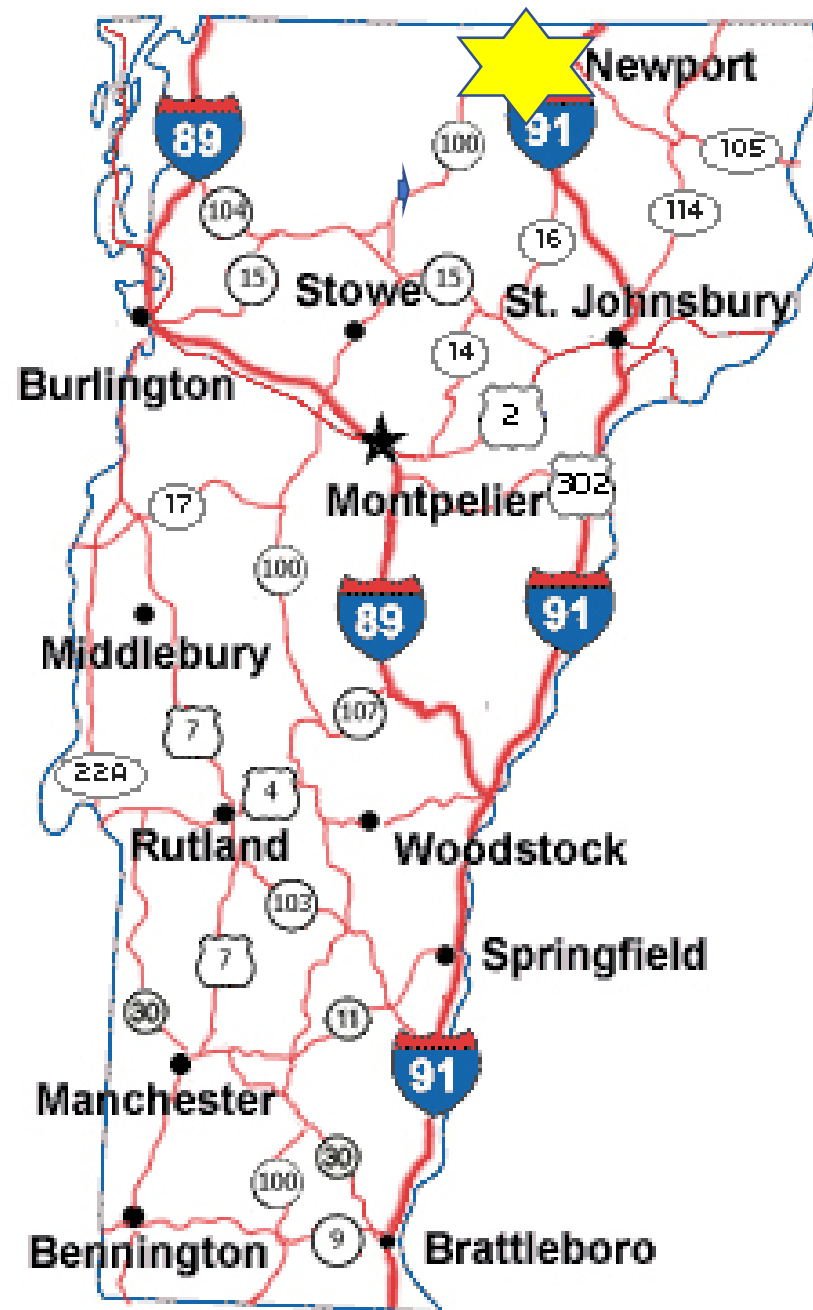
1 LANDFILL

New England Waste Services of Vermont

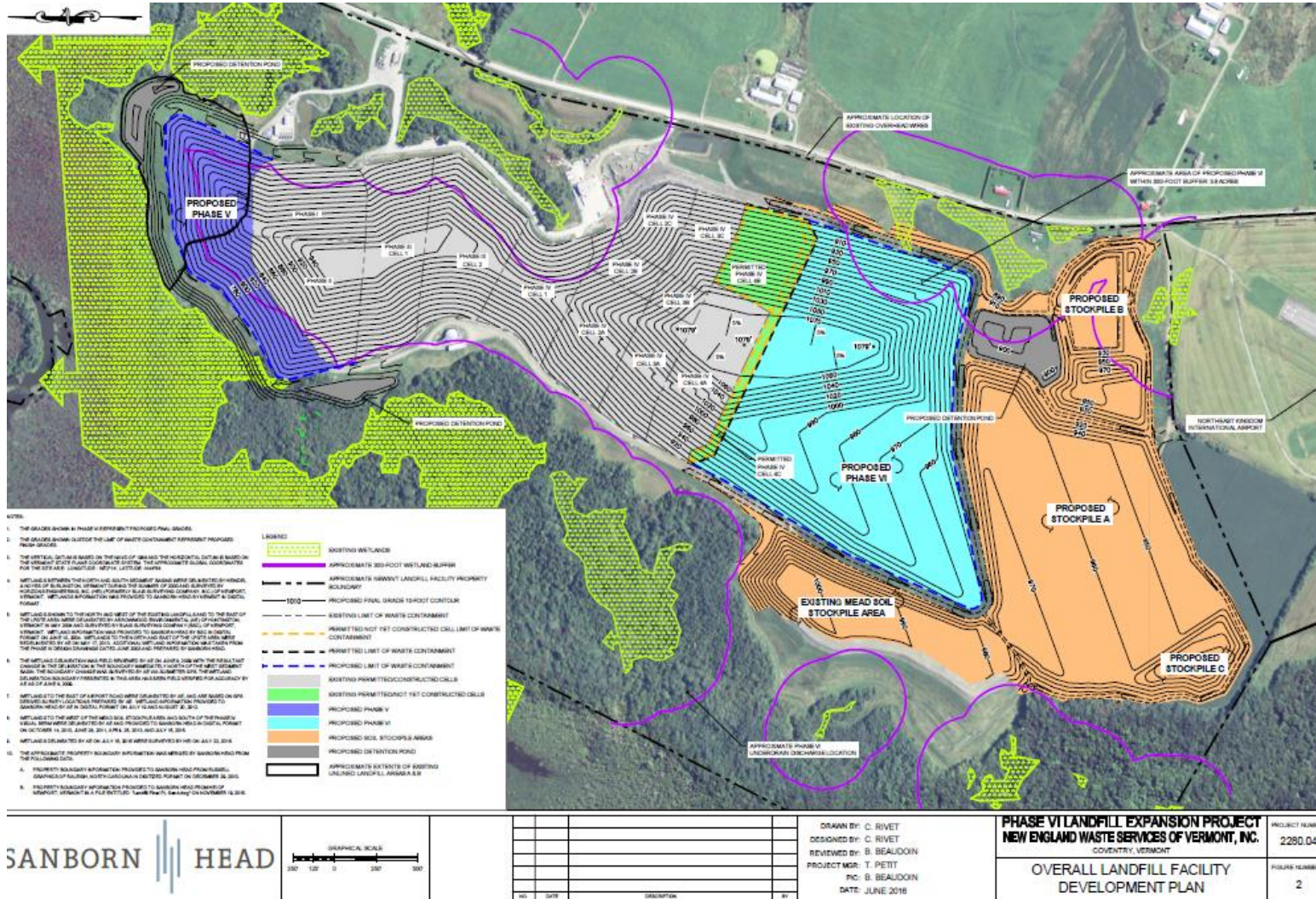
Coventry VT



Coventry, VT



PHASE VI



51 Acres

13.7 Million Cubic Yards of Air Space



NEWSVT Landfill Coventry, VT

Is this sign friendly to Long Haul Trucks
carrying MSW into VT?... NO.



26) The Permittee shall not accept for disposal at the Facility Non-Implemented Waste without approval from the Secretary. The Permittee may accept Approved Solid Waste and Approved Processed Construction and Demolition Waste, Approved Material Recovery Facility Residuals and Approved Special Waste only in accordance with the standards set forth in the Secretary's written approval for each particular waste type.



Vermont Waste Capacity

- 14,500,000 Cubic Yards
- 24 Years
- 2044





- Commercial Transfer Stations
- Residential Drop off Facilities
- C&D Recycling Facility
- Organic Composting Facilities
- Material Recycling Facilities
- HHW Collection Facilities and Events

EMERGENCY!



Vermont Governor Phil Scott



Department of Environmental Conservation
Jeff Bourdeau

Waste Management & Prevention Division
802.522.0131 Email: Jeff.bourdeau@Vermont.gov



MassDEP Management Capacity



NRRA Webinar

July 22, 2020

Materials Management Capacity Study

- Completed under contract to MassDEP by MSW Consultants Inc.
- Published December 2018
- Reviewed all forms of management capacity
- Current levels and projected qualitative changes
- Most of remaining slides from MSW Consultants report

Targeted Facility Types

27

Category	Type
Disposal	Landfill
	Waste to Energy (WTE)
Transfer	Transfer & Handling
Processing	Material Recovery Facility (MRF)
	C&D Processor
	Compost
	Anaerobic Digestion
	Animal Feed Operation
Reuse	Food Rescue Operation
	Textiles & Household Goods
	Building Materials & Household Furnishings
	Institutional/Commercial Furniture & Equipment

Excluded Facility Types

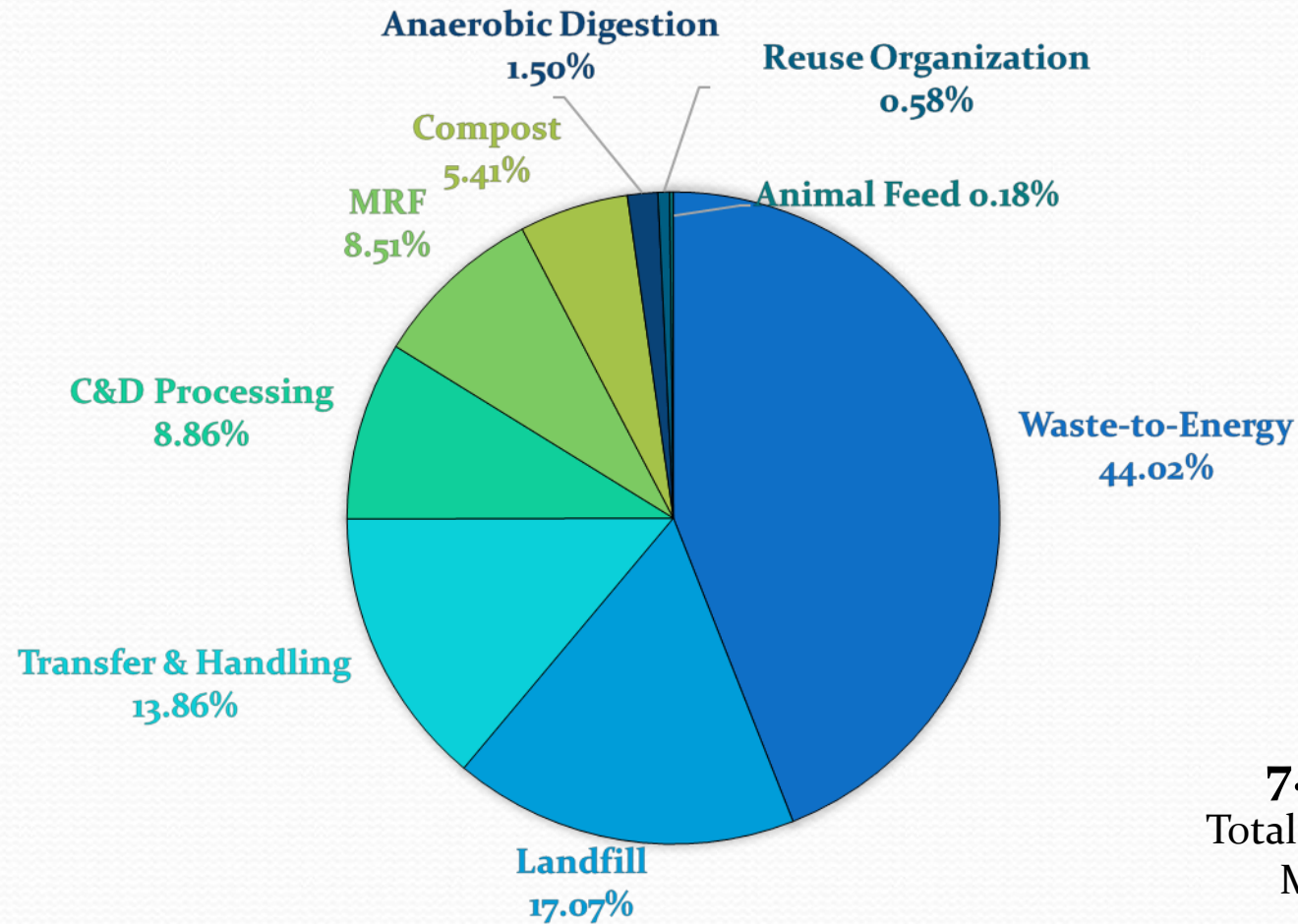
28

- Computer & electronic appliance remanufacturers
- Motor vehicle parts (used)
- Tire retreaders
- Pallet remanufacturing and reuse
- Materials exchange services (virtual marketplaces)
- Retail used merchandise sales including:
 - Surplus stores
 - Used book dealers
 - Used household appliance stores
 - Secondhand sporting goods stores
 - Specialized secondhand stores
 - Flea markets
 - Antique stores

Primary Geographic Boundary²⁰

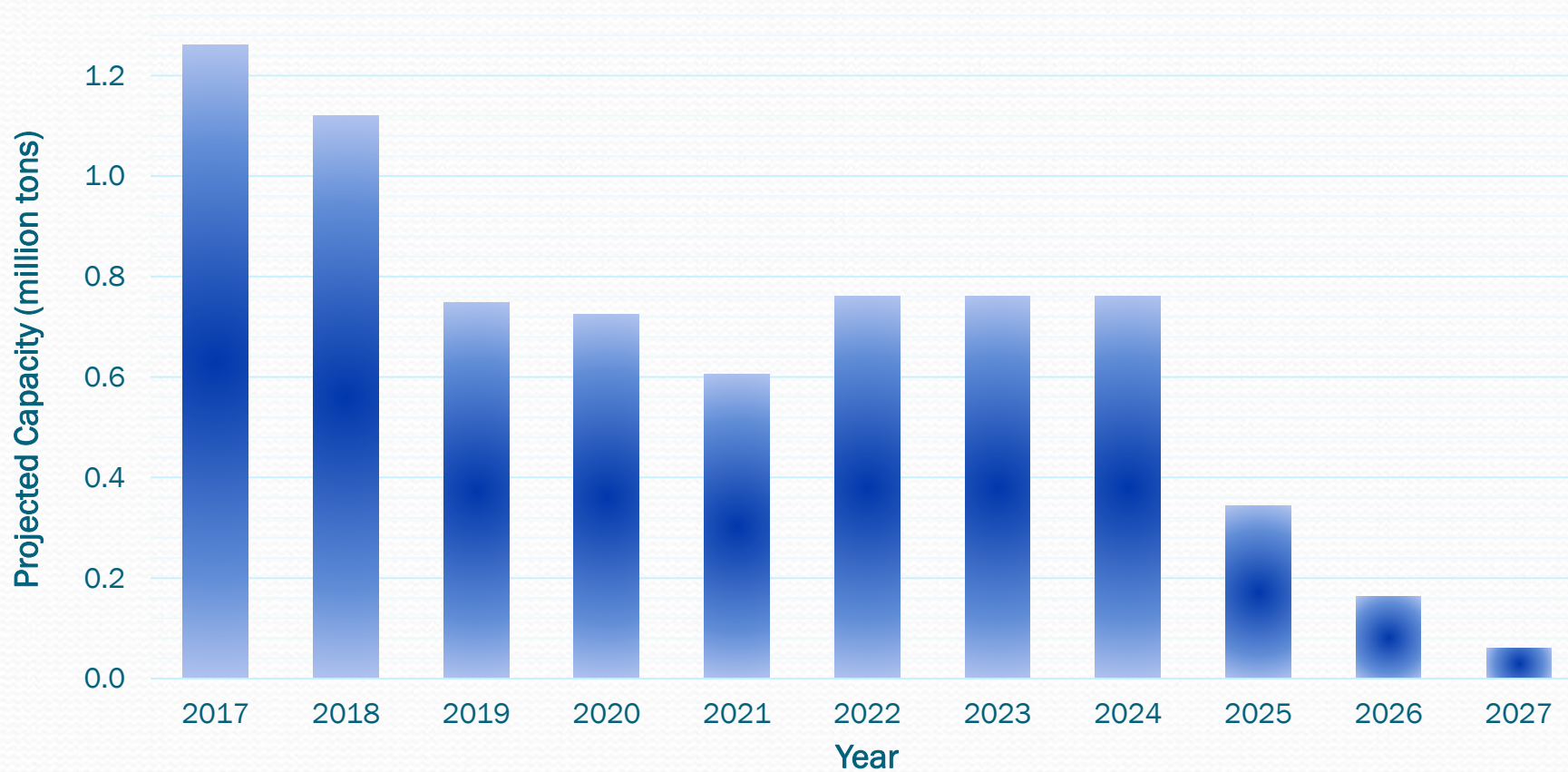


In State Tons Managed



7.39 million
Total Tons Managed in
Massachusetts

Massachusetts Projected Landfill Capacity



Note: The Town of Bourne Landfill is projected to be capable of an increase in MSW capacity after its ash disposal contract with Covanta SEMASS expires in Dec. 2021.

Export Market Summary (all forms of capacity)

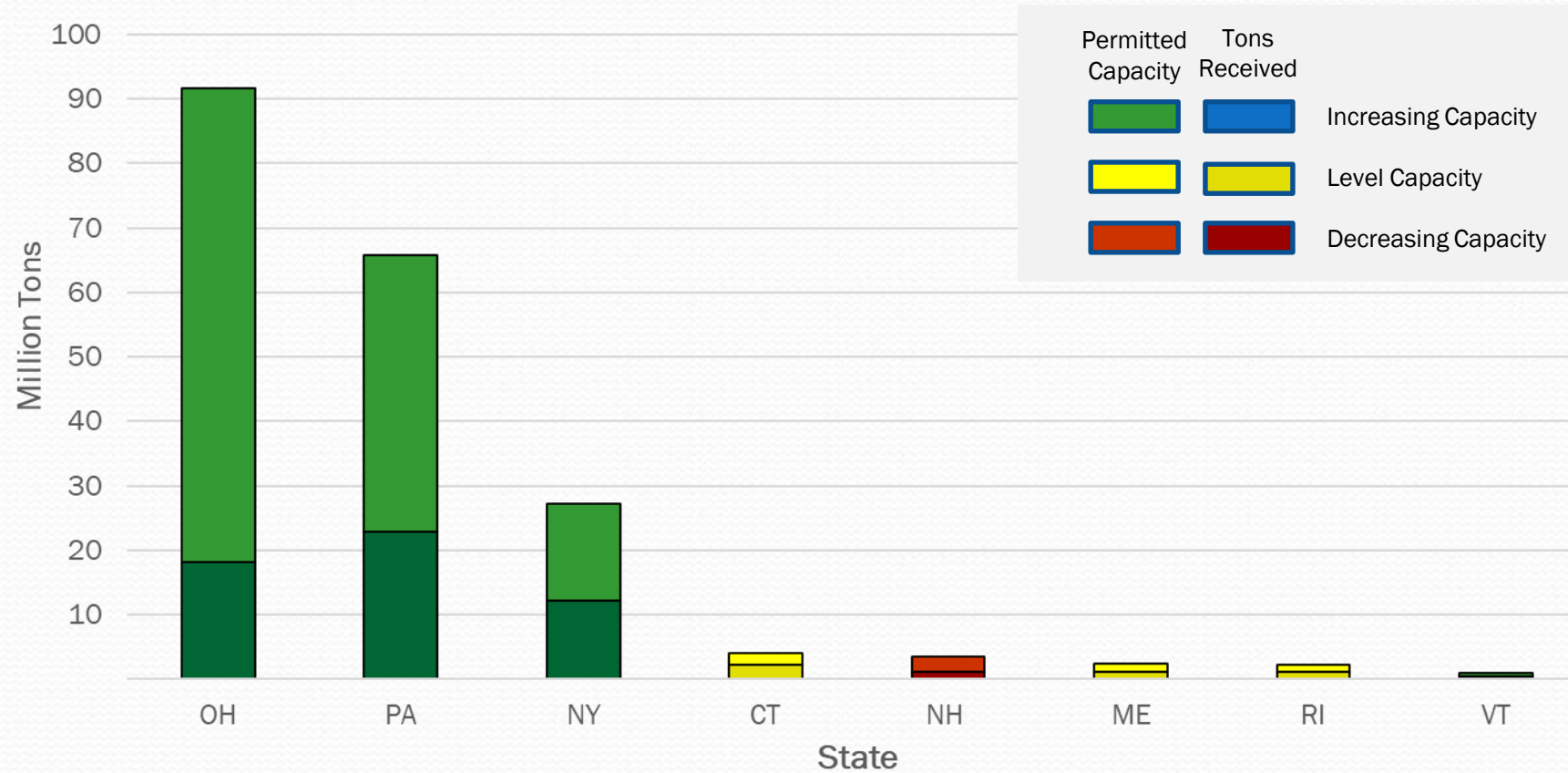
407
facilities identified
within 30 miles of
Massachusetts, or
accepting $\geq 5,000$
tons

1.65 million
tons of solid waste
exported from
Massachusetts

10.4%
of tons received at
these facilities
originates from
Massachusetts

State	No. of Facilities	Permitted Tons	Tons Received	MA Tons Received	% of Total MA Tons Exported
CT	144	2,506,392	2,137,016	22,493	1.36%
ME	23	1,111,949	888,610	190,997	11.58%
NH	98	2,544,862	2,724,298	439,597	26.65%
NY	63	4,758,497	4,866,750	220,634	13.37%
OH	3	4,064,307	2,178,925	386,557	23.43%
PA	0	0	0	1,078	0.07%
RI	51	2,790,433	2,482,216	307,639	18.65%
VT	25	747,333	653,333	20,108	1.22%
QC	NA	NA	NA	60,544	3.67%
TOTAL	407	18,523,773	15,931,148	1,649,647	100.00%

Out-of-State Disposal Trends



MSW Consultants Conclusions³⁴

- Disposal is increasingly reliant on export markets
- C&D processing can absorb another 1.3 millions tons
- There is meaningful capacity for source separated recoverable materials
- Reuse sector has minimal impact by tonnage (but higher value)

MSW Consultants Projections³⁵

- Exported disposal tonnage will continue to increase
- Source separation will be necessary to capitalize on Massachusetts solid waste capacity
- The above bullets point to higher costs for materials management in Massachusetts

Draft 2030 Solid Waste Master Plan Goals

- Reduce disposal by 30% by 2030
 - From 5.7 to 4.0 million tons
- Reduce disposal by 90% by 2050
 - From 5.7 to 570K tons

MassDEP Capacity Policies

- No capacity restrictions on landfill permitting
- Moratorium on additional waste to energy capacity
 - Will allow up to 350K tons/year of alternative waste to energy capacity
 - Will allow current capacity to be replaced
 - Both with tighter emissions controls and separation requirements
- Goal to maximize all other forms of management capacity

For More Information

- John Fischer, Deputy Division Director, Solid Waste
- John.fischer@mass.gov
- [Link to Published Study](#)
- Links to MassDEP Solid Waste Data Updates
 - [2017 & Prior Updates](#)
 - [2018 Update](#)
 - appendix within draft 2030 Solid Waste Master Plan

Disposal Capacity in New Hampshire

Michael Nork, Solid Waste Management Bureau
NH Department of Environmental Services

NRRA 2020 Summer Webinar Series
July 22, 2020

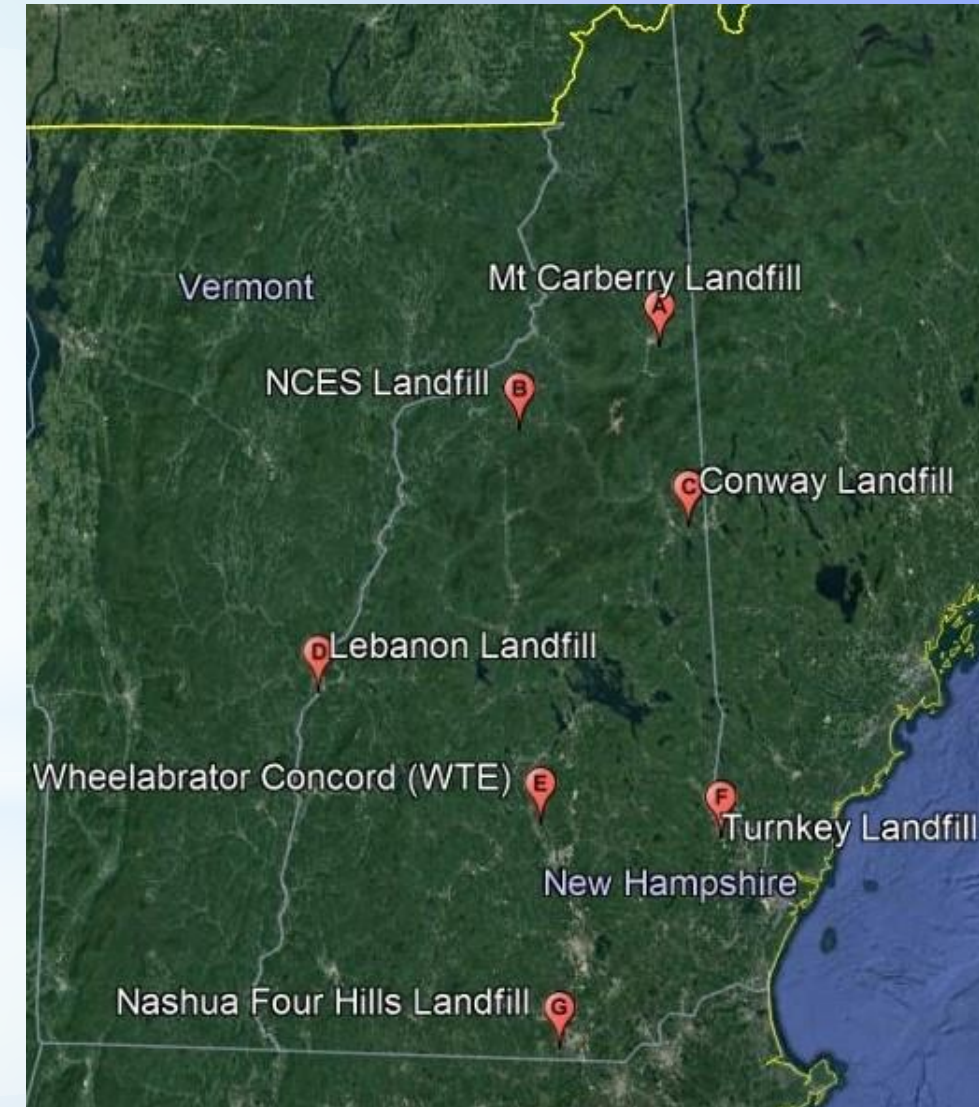
NH's Primary Disposal Facilities

6 Municipal Solid Waste Landfills (3 commercial, 3 limited public)

- **Mt Carberry Secure Landfill**
Androscoggin Valley Regional Refuse Disposal District
- **North Country Environmental Services (NCES)**
Casella Waste Systems, Inc.
- **TLR-III Refuse Disposal Facility (a.k.a. Turnkey Landfill)**
Waste Management of New Hampshire, Inc.
- **Lebanon Regional Solid Waste Facility**
City of Lebanon
- **Lower Mt. Washington Valley Secure Landfill**
Town of Conway
- **Nashua Four Hills Secure Landfill**
City of Nashua

1 Commercial Waste-to-Energy Facility

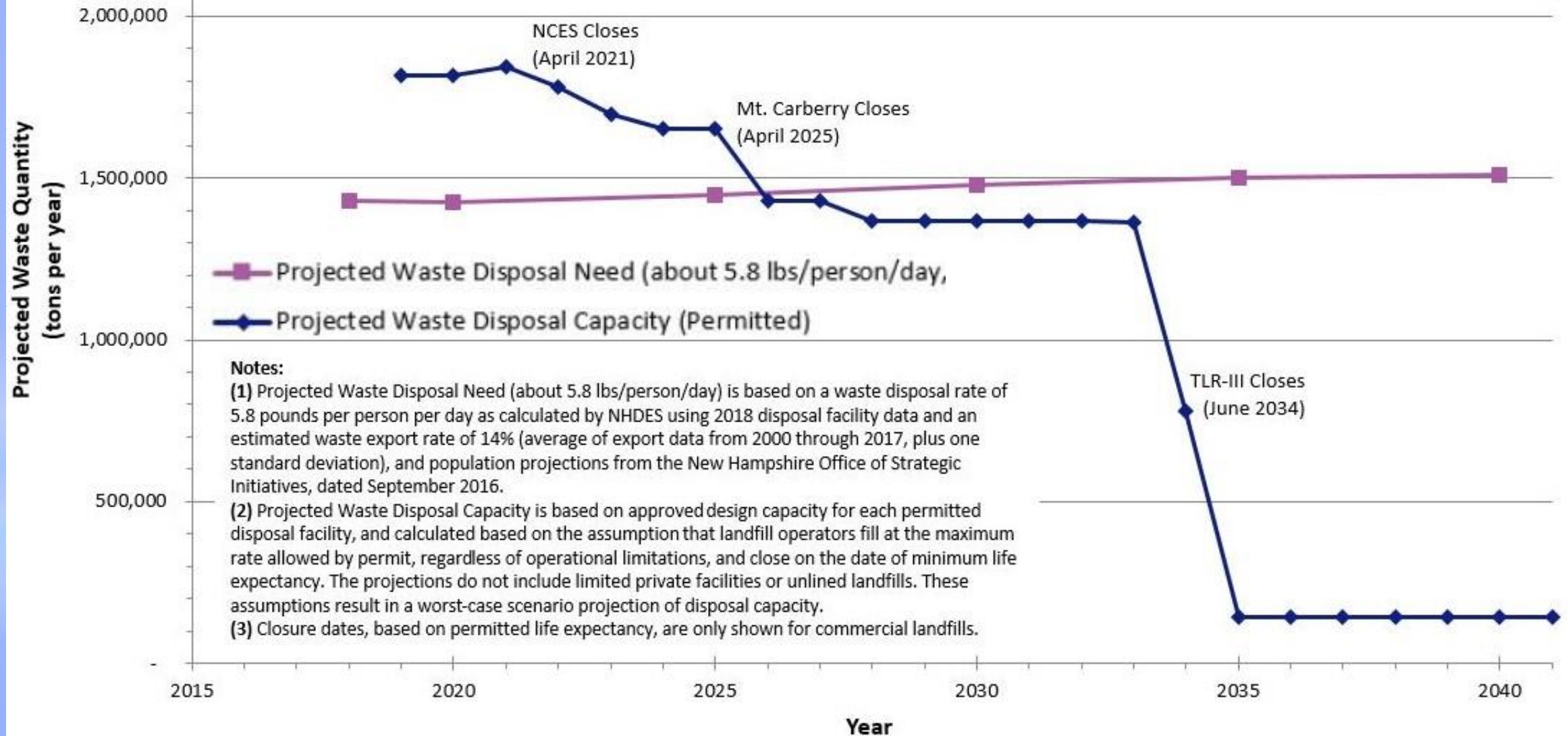
- **Wheelabrator Concord Company**
Wheelabrator Technologies, Inc.



Does NH Have a Disposal Crisis?

NH Projected Waste Disposal Need and Capacity (2020 - 2040)

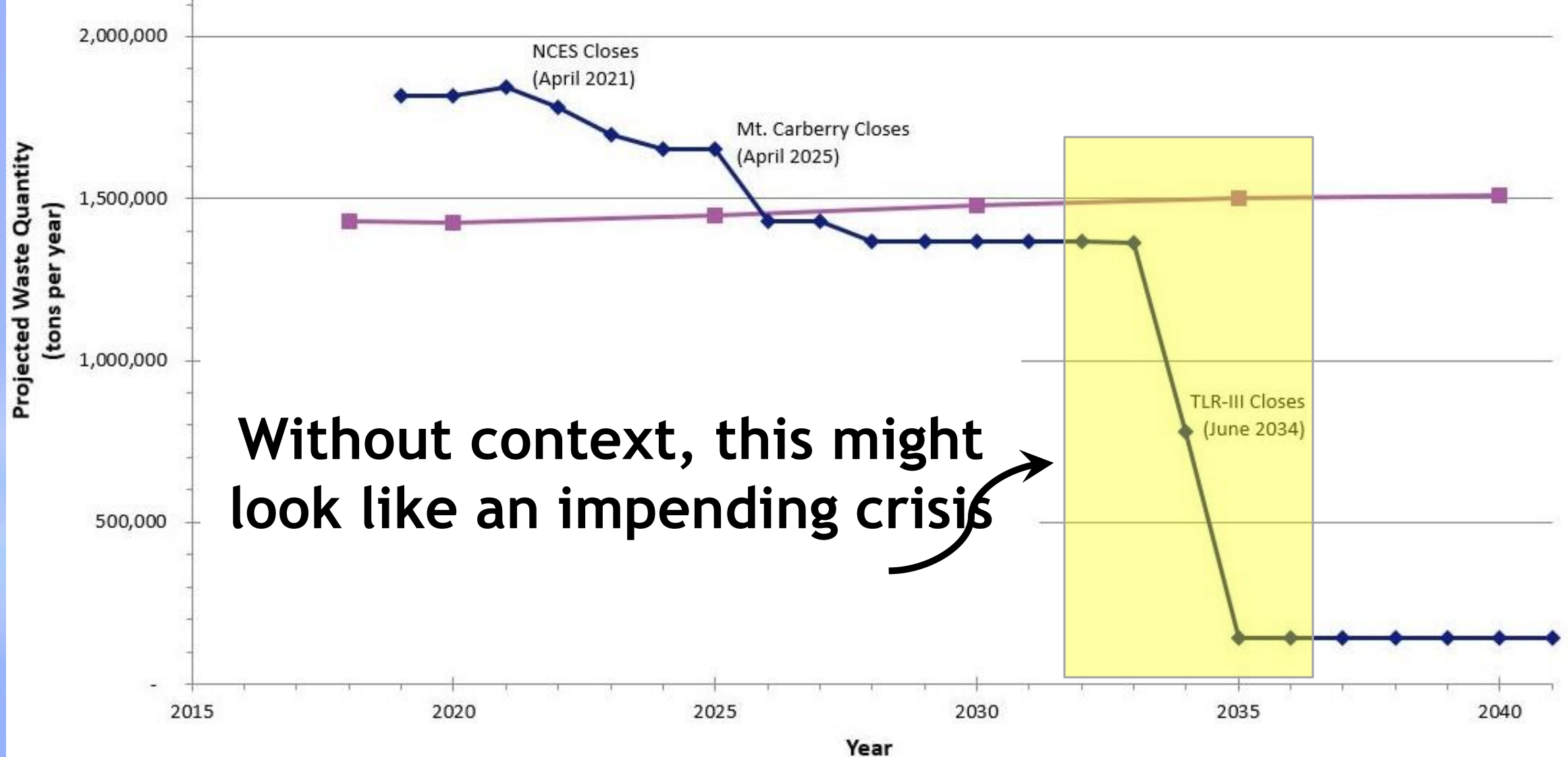
Source: NHDES 2019 Biennial Solid Waste Report



Does NH Have a Disposal Crisis?

NH Projected Waste Disposal Need and Capacity (2020 - 2040)

Source: NHDES 2019 Biennial Solid Waste Report



The Context

- Chart only represents permitted disposal capacity
- Assumed that landfills will close at earliest date allowed by their permit
- Statute requires capacity planning over 20-year period (RSA 149-M:11, V)
- Capacity projections will likely show a capacity shortfall within any given 20-year period because of the incremental way landfills expand

Status of Disposal Capacity in NH

- NH Currently has adequate landfill capacity
- Although chart indicates capacity shortfall starting in 2025, that does not mean NH will actually experience such a shortfall
- Disposal capacity evolves over time but the 2019 capacity chart is only a snapshot
- Attention needed on reducing “disposal need” - development of capacity for recycling, composting & other forms of diversion

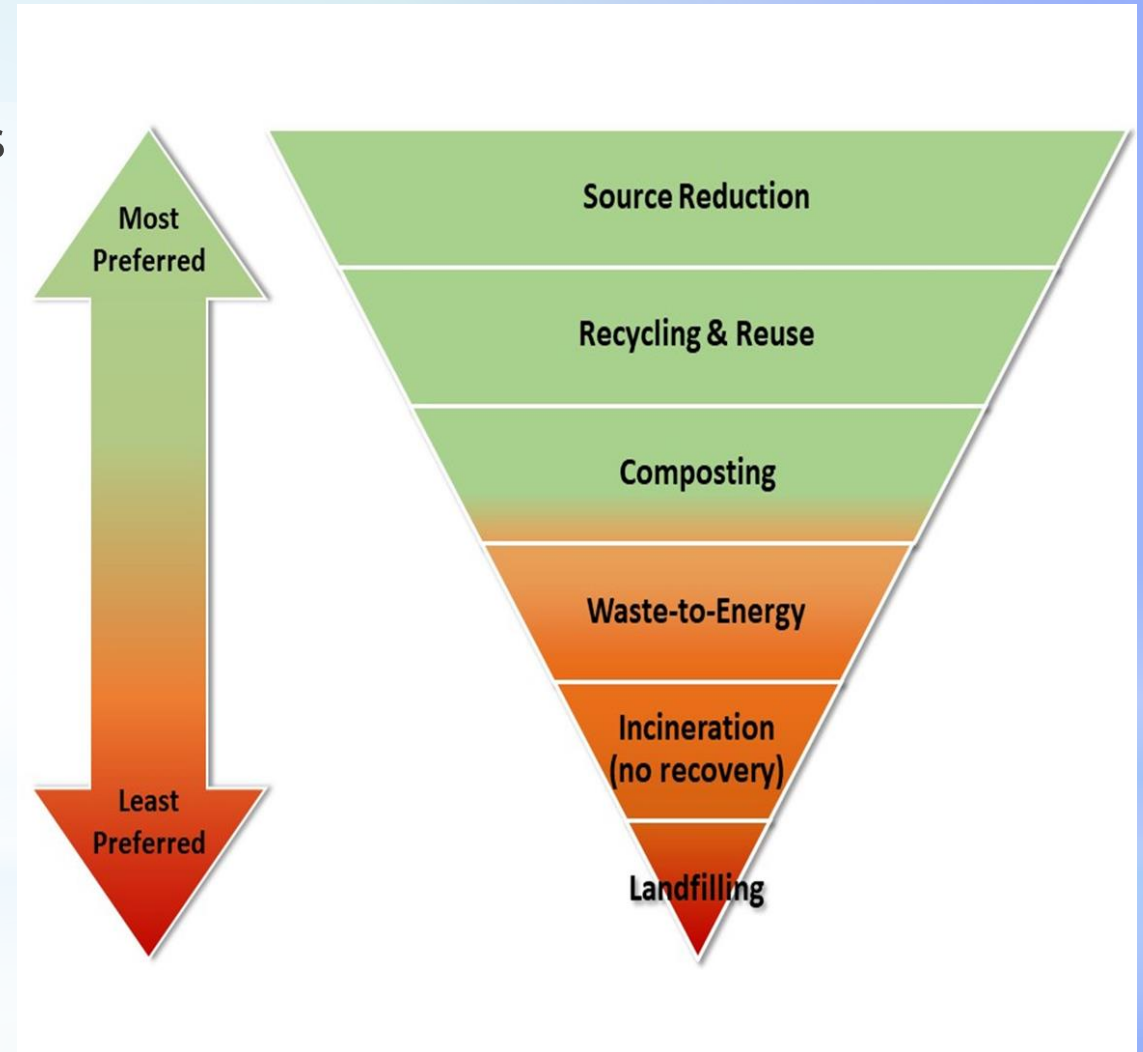
Other Management Capacity in NH

Transfer Capacity

- 200+ Public & Private Transfer Stations
- 25+ Scrap Metal Facilities

Processing Capacity

- 1 WTE Facility
- 2 C&D Processing Facilities
- 1 Soils Treatment Facility
- Limited Composting Capacity
- No Commercial MRF's



Additional Information:

NHDES Biennial Solid Waste Report (2019):

<https://www.des.nh.gov/organization/commissioner/pip/publications/documents/r-wmd-19-02.pdf>

Report of Recycling/Solid Waste Legislative Study Committee (2019):

<http://gencourt.state.nh.us/statstudcomm/committees/1476/reports/2019%20Final%20Report.pdf>

Contact:

Michael.Nork@des.nh.gov

603-271-2936

NHDES Solid Waste Management Bureau

<https://www.des.nh.gov/organization/divisions/waste/swmb/index.htm>



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"Protecting the Environment and Ozone Layer for the Future of Our Children"



United States Department of Agriculture
Rural Development

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Please take the survey at the end of the webinar.

SUMMER WEBINAR SERIES- COMING NEXT



Food: Too Good To Waste

Presenter: Brenna Toman, Zero Waste School Coordinator CVSWMMD

Friday, July 24

12:00-1:00 pm



Using Processed Glass Aggregate in Road and Infrastructure Projects

Presenters: Reagan Bissonnette, Executive Director, NRRA; Madeleine Dillonno, Graduate Student, University of NH, Carsey School of Public Policy, NRRA Volunteer

Wednesday, July 29

9:00-10:00 am

