

Water Front- Peter Mantius

Environmental politics in New York's Finger Lakes

Hochul Administration Is Projecting Major Expansion of Sewage Sludge Spreading as Fertilizer on Farmland

[Peter Mantius](#) / [April 26, 2023](#)[April 28, 2023](#) / [Uncategorized](#)



ALBANY, Apr. 26, 2023 — The Hochul Administration's new plan to recycle 85 percent of the state's entire solid waste stream by 2050 relies on spreading more — much more — municipal sewage sludge on fields as a crop fertilizer.

That would abruptly reverse a decade-long trend away from sludge spreading in New York, as concerns about pollutants in sludge have been growing nationwide. Maine banned the practice last year after it identified 56 farms contaminated with PFAS 'forever chemicals.'

But the draft 2023 New York State Solid Waste

Management Plan

(<https://waterfrontonline.files.wordpress.com/2023/04/decsolidwastemanagementplan.pdf>) proposes to boost the rate of recycling (field spreading) of all sewage sludge it generates from 22 percent in 2018 to 57 percent in 2050.

"It's insane. We really need to do something quickly on this," said Tracy Frisch, Chair of the Clean Air Action Network of Glens Falls.

The state Department of Environmental Conservation is accepting public comments (<https://www.dec.ny.gov/press/127295.html>) on its draft waste plan through May 15.



Is the DEC poised to "green light" new sewage sludge shipments from Long Island to Steuben County in spite of moratoriums prohibiting expansions of local waste projects?

The plan assumes the state's total waste generation will hold steady at the 2018 level of 42.2 million tons, but it calls for the recycling rate to climb from 44 percent that year to 85 percent by 2050.

The waste steam includes all types of wastes except those defined as hazardous.

New York State Waste Projections 2023 - 2050									
		2018	2023	2025	2027	2030	2032	2040	2050
MSW	Tons Generated	17,889,980	17,889,980	17,889,980	17,889,980	17,889,980	17,889,980	17,889,980	17,889,980
	Tons Diverted	3,399,096	3,935,796	4,651,395	5,724,794	7,155,992	9,123,890	11,628,487	15,206,483
	Recycling Rate (%)	19%	22%	26%	32%	40%	51%	65%	85%
CDD	Tons Generated	18,360,987	18,360,987	18,360,987	18,360,987	18,360,987	18,360,987	18,360,987	18,360,987
	Tons Diverted	11,751,032	12,301,861	13,219,911	13,770,740	14,321,570	14,688,790	15,056,009	15,606,839
	Recycling Rate (%)	64%	67%	72%	75%	78%	80%	82%	85%
Industrial	Tons Generated	1,932,296	1,932,296	1,932,296	1,932,296	1,932,296	1,932,296	1,932,296	1,932,296
	Tons Diverted	560,366	618,335	695,627	869,533	1,062,763	1,255,992	1,449,222	1,642,452
	Recycling Rate (%)	29%	32%	36%	45%	55%	65%	75%	85%
Biosolids	Tons Generated	1,372,854	1,372,854	1,372,854	1,372,854	1,372,854	1,372,854	1,372,854	1,372,854
	Tons Diverted	302,028	425,585	453,042	480,499	507,956	535,413	617,784	782,527
	Recycling Rate (%)	22%	31%	33%	35%	37%	39%	45%	57%
Bulk/Heavy Metals	Tons Generated	2,692,161	2,692,161	2,692,161	2,692,161	2,692,161	2,692,161	2,692,161	2,692,161
	Tons Diverted	2,369,102	2,369,102	2,396,023	2,422,945	2,422,945	2,476,788	2,503,710	2,557,553
	Recycling Rate (%)	88%	88%	89%	90%	90%	92%	93%	95%
Total Waste Stream	Tons Generated	42,248,278	42,248,278	42,248,278	42,248,278	42,248,278	42,248,278	42,248,278	42,248,278
	Tons Diverted	18,381,623	19,650,678	21,415,997	23,268,511	25,471,226	28,080,873	31,255,212	35,795,853
	Recycling Rate (%)	44%	47%	51%	55%	60%	66%	74%	85%

Table 7. Projected MSW recycling rate and per capita waste disposal from 2018–2050

MSW				
	Tons Generated	Tons Diverted	Recycling Rate (%)	Per capita Waste Disposal (lbs/person/day)
2018	17,889,980	3,399,096	19%	4.09
2023	17,889,980	3,900,016	22%	3.91
2025	17,889,980	4,561,945	26%	3.71
2027	17,889,980	5,760,574	32%	3.37
2030	17,889,980	7,191,772	40%	2.97
2032	17,889,980	9,159,670	51%	2.42
2040	17,889,980	11,664,267	65%	1.71
2050	17,889,980	15,224,373	85%	0.72

NYS Population	
2018	19,530,351
2023	19,628,003
2025	19,667,259
2027	19,706,593
2030	19,765,713
2032	19,805,244
2040	19,963,686
2050	20,163,323

DEC projects that 85 percent of all municipal solid waste will be recycled by 2050, up from 19 percent in 2018. Recycling of biosolids (sewage sludge) is expected to rise to 57 percent by 2050 from 22 percent in 2018.

The plan is based on data from 2018, when municipal solid waste accounted for 45 percent of the state total and construction and demolition waste made up another 46 percent. Non-hazardous industrial wastes were 5 percent, while biosolids — the residual solids or semi-solids left from wastewater treatment at sewage plants, or sludge — made up the remaining 4 percent.

The plan projects a particularly sharp increase in the recycling rate of municipal solid waste. The 19 percent rate in 2018 is scheduled to rise to 85 percent in 2050, largely due to legislative actions and local waste initiatives.

Biosolids would play a less prominent, though still significant, role in achieving the state's overall recycling target.

DEC said it supports the "beneficial use" of biosolids, mainly spreading it on agricultural fields or mixing it with compost. But that so-called beneficial use fell from 47 percent of total sludge produced in 2008 to 22 percent in 2018.

"Trends show a steady increase in the use of landfills for biosolids disposal," the draft plan explained. "This is primarily due to relatively low tipping fees at landfills in the state."

The DEC sidesteps the other major factor behind the trend: public concern about the pollutants in sludge that bioaccumulate in crops, animals and humans. PFAS compounds are carcinogenic in a few parts per trillion, and heavy metals and other potent pollutants are also present in sludge.

The DEC's plan doesn't entertain the possibility that new environmental enforcement mandates might limit the state's ability to dramatically boost sludge spreading in the coming decades.

"The recycling of biosolids through land application and other means can be a source of PFAS in the environment," the plan acknowledges.



"The EPA's controls over the land application of sewage sludge (biosolids) were incomplete and may not fully protect human health and the environment."



— EPA, Office of Inspector General's report, Nov. 15, 2018

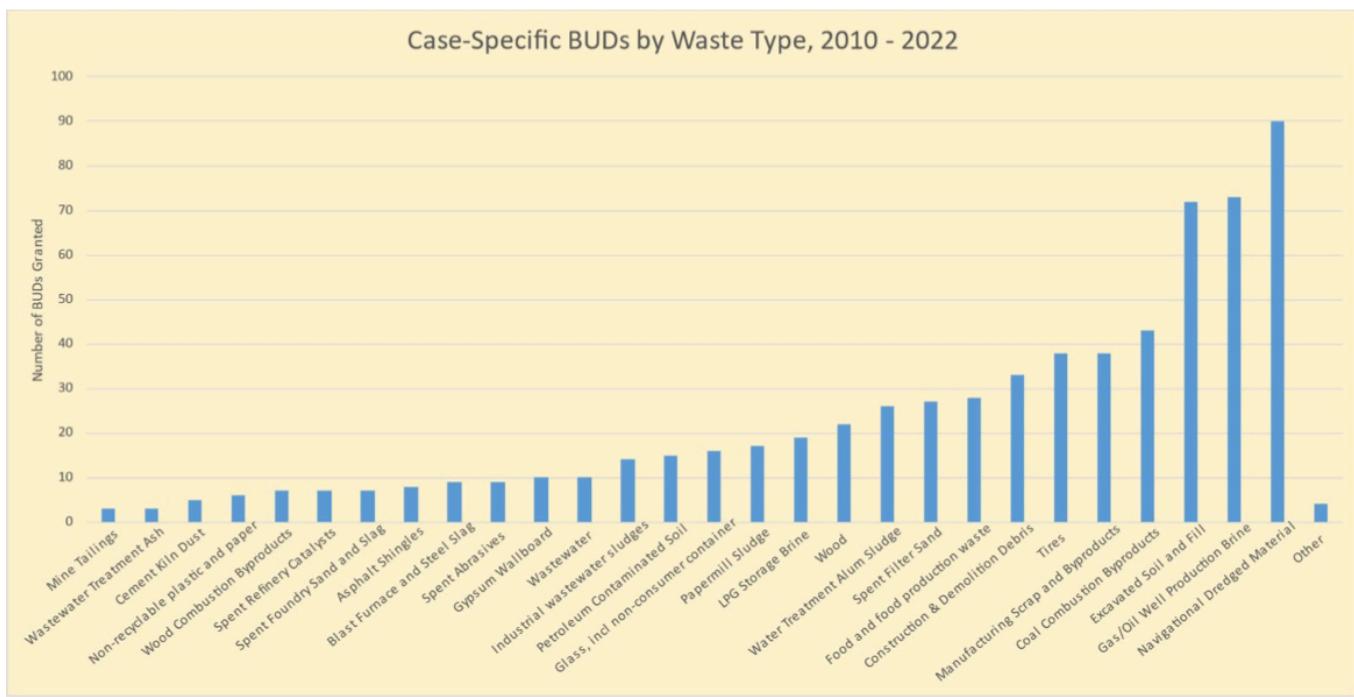
general.

"The EPA's controls over the land application of sewage sludge (biosolids) were incomplete and may not fully protect human health and the environment," said the IG report, which cited 352 pollutants in biosolids, including "61 designated as acutely hazardous, hazardous or priority pollutants in other programs."

But the DEC has not announced plans to systematically test sludge for PFAS. Rather, it said it was waiting for the U.S. Environmental Protection Agency to set guidelines or enforceable limits for PFAS in field-spread sludge.

However, the EPA has a poor track record on biosolids regulation, according to a 2018 report from the agency's inspector

Frisch said much of the headway the DEC proposes to make in recycling the state's waste may be achieved simply by relaxing its definition of "beneficial use."



Sewage sludge falls into the

Figure 3.15. Case-specific BUDs from 2010–2022

Liberally granting waste substances a "beneficial use designation" (BUD) has been jokingly referred to as "linguistic detoxification."

recycling category because spreading it on fields has been deemed beneficial. Other substances that have won "beneficial use" status include paper mill sludge, gas/oil well production brine, asphalt shingles, blast furnace slag and coal combustion byproducts.

Frisch says granting "beneficial use" status to wastes that should be disposed of rather than reused amounts to "linguistic detoxification."

"They're saying the recycling is going to go up," Frisch said. "It's magical thinking. I'm sure land application of sewage sludge will go up if they flash the green light."

Town officials in Thurston and Cameron have voiced concern that the DEC is poised to approve a major new source for a sewage spreading operation in Steuben County in spite of local moratoriums that prohibit the expansion of local waste projects.

Leo Dickson & Sons Inc. and Casella Organics are seeking DEC approval (<https://waterfrontonline.blog/2023/04/20/pfas-found-in-all-35-water-samples-from-sites-near-sewage-sludge-fields-in-steuben-casella-calls->

levels-minuscule/) to begin importing sludge from the Bay Park Sewage Treatment Plant on Long Island to Thurston.

“This explains why they’re (DEC) hesitant to stop it,” even in the face of the local moratoriums, said Thurston Town Supervisor Michael Volino. “This is part of their ultimate plan.”



While sludge spreading is now banned in Maine, New York is not alone in planning to promote the practice.

California all but bans sludge from landfills and continues to promote its use as a farm fertilizer. That policy tends to minimize greenhouse gas emissions from the state’s landfills.

“California may be ahead of Maine on GHG emissions, Maine may be ahead on PFAS, and everybody is ahead of the EPA,” Brian Staley, president of the Environmental Research and Education Foundation, told the Portland Press Herald (<https://waterfrontonline.files.wordpress.com/2023/04/mainecaliforniapfassludge.pdf>).

Colorado, Michigan, Massachusetts and Virginia are among the states that fall somewhere between Maine and California in regulated PFAS in sludge. New York may join them.

The New York waste plan notes the limits on the total capacity of the state’s 25 permitted municipal solid waste (MSW) landfills. “If local restrictions on waste acceptance are also included in the calculation,” the draft plan says, “the remaining landfill capacity is 16 years.”

That provides a strong incentive to trim down the state’s per capita waste disposal figure. In 2018, the average New Yorker produced 4.09 pounds of MSW per day. Under the DEC’s draft plan, that average will drop to 0.72 pounds a day.



**Thurston Supervisor
Michael Volino**

To
accomplish
that, the
plan

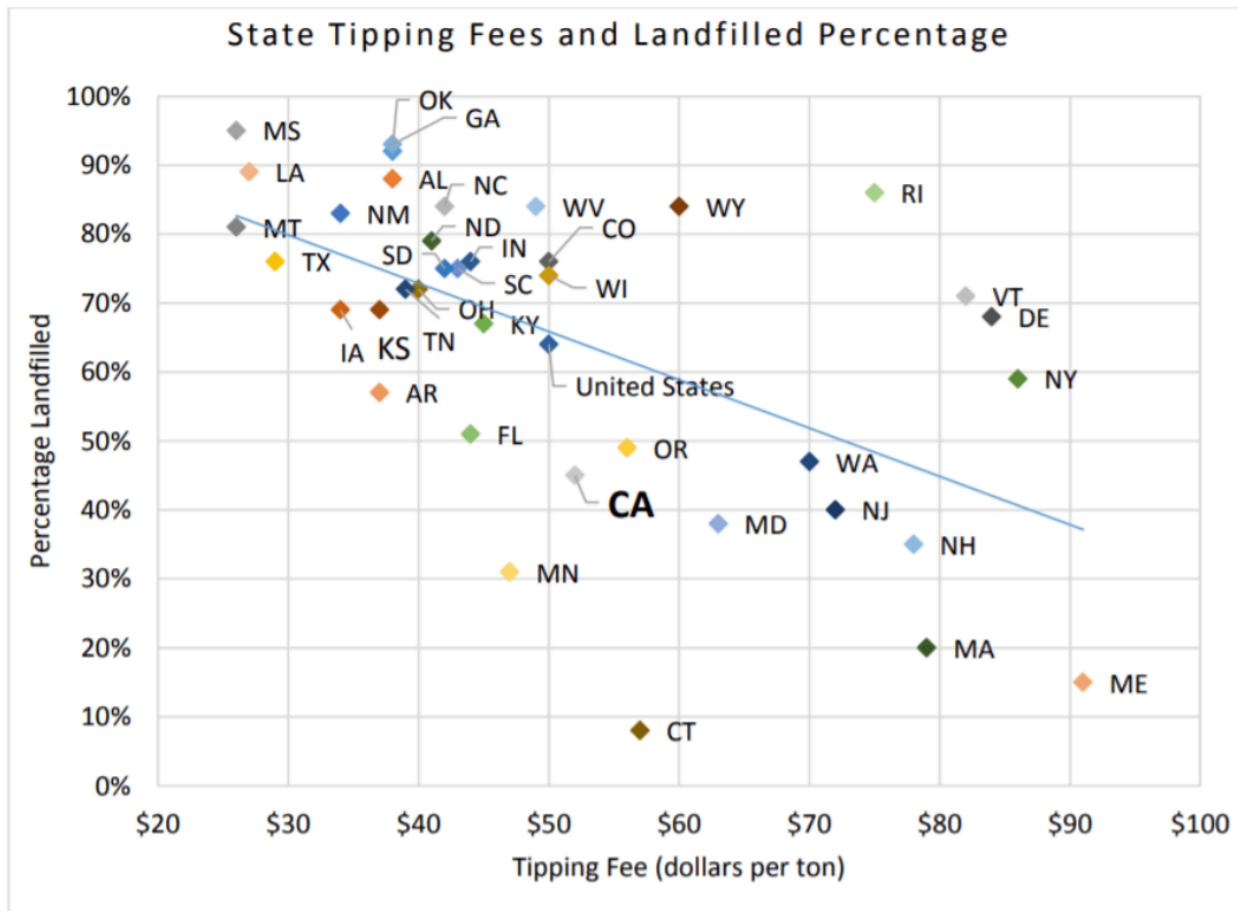


Figure 1: U.S. State Tipping Fees and Landfilled Percentage

Source: [Landfill Tipping Fees in California](#) (CalRecycle 2015)

recommends three “transformative legislation actions:”

- Packaging and paper product legislation that requires waste generators to take actions that promote waste reduction, reuse and recycling.
- Expanding the existing Food Donation and Food Scraps Recycling law.
- Imposing a per-ton surcharge on all shipments to landfills and incinerators and use the proceeds to fund approved local waste reduction programs.

The Legislature has already enacted legislation to ban PFAS in certain consumer products.

Gov. Hochul’s 2023 budget bill includes the packaging legislation called for in draft solid waste plan — [A5322](https://www.nysenate.gov/legislation/bills/2023/a5322) (<https://www.nysenate.gov/legislation/bills/2023/a5322>). The DEC said in an April 25 statement to WaterFront: “By requiring producers, not taxpayers, to cover packaging and paper

product recycling costs, the proposal makes the producers the stewards of the products they create and requires a full examination of the life cycle of those products from creation to disposal."

Amendments to the food scraps recycling law are included in an Assembly bill —[A5906](#) (<https://waterfrontonline.files.wordpress.com/2023/04/a5906.pdf>).

There is no active

State/Local policy	Surcharge Amount	Surcharge applies at:			Designated fund	Year Est.
		Landfills	Incinerators	Transfer Stations		
New Jersey	\$3/ton Recycling Tax	X	X	X	REA Recycling Tax Fund	2008
Pennsylvania	\$2/ton Recycling Fee	X	X		Recycling Fund	1998
	\$0.25/ton Environmental Stewardship Fee	X			Environmental Stewardship Fund	1999
	\$4/ton Disposal Fee	X			Environmental Stewardship Fund	2002
Minnesota	9.75% (households) 17% (commercial)	X	X		State Environmental Fund (70% of total)	1997
Wisconsin	\$13/ton	X			Environmental Management Account (\$9.64)	1999
Indiana	\$0.50/ton	X	X		Solid Waste Management Fund (50%); Recycling Promotion & Assistance Fund (50%)	1996
North Carolina	\$2/ton Disposal Tax	X		X	Hazardous sites cleanup fund (50%); General fund (12.5%)	2008
Iowa	\$4.25/ton	X		X	Groundwater Protection Fund (Solid Waste Account)	1987
Ohio	\$4.75/ton for MSW disposal	X		X	Hazardous Waste Management and Cleanup funds (\$0.90); Waste Management Fund (\$0.75); Environmental Protection Fund (\$2.85); Soil and Water Conservation District Assistance Fund (\$0.25)	1988
	\$1.60/ton for C&D disposal	X		X	Soil and Water Conservation District Assistance Fund (\$0.25); Recycling and Litter Prevention Fund (\$0.75)	1988
Alameda County, CA	\$4.34/ton AB 939 Implementation Fee	X	X		General Fund	1989
	\$8.23/ton "Measure D" Surcharge	X	X		Recycling Fund	1990
Santa Clara County, CA	\$0.78/ton Solid Waste Planning Fee	X	X	X	Recycling and Waste Reduction Fund	1984
	\$4.10/ton AB 939 Implementation Fee	X	X	X	General Fund	1992

Table 1: Overview of Disposal Surcharges

Source: [ILSR 2022](#)

This is partial list of surcharges at waste landfills across the country.

legislation to require a surcharge on waste loads accepted at landfills, even though that was specifically recommended by the state's Climate Action Council as well as the DEC.

"The state should enact legislation in 2023 to establish a disposal disincentive (fee per ton) on all waste generated in New York to provide financial support for reduction, reuse and recycling," the [CAC](#)

(<https://waterfrontonline.files.wordpress.com/2023/04/decsolidwastemanagementplan.pdf>) said in its final scoping plan released in December.

The DEC's waste plan echoed the CAC:

"First, it would increase the cost of waste disposal, thereby incentivizing the reduction and recycling of waste. Second, it is intended for the per ton charge collected to provide direct municipal financial support by being redistributed entirely to municipalities that have approved (programs) for their waste reduction, reuse, and recycling costs.

"This surcharge, even at only a minimal \$5 per ton, could not only help disincentivize disposal, but also generate \$133 million per year in its initial years. Over 30 states (<https://waterfrontonline.files.wordpress.com/2023/04/surchargeilsrcharts.pdf>) already use some form of this successful fee structure. It is time for New York State to act."

Published by Peter Mantius

I am a journalist who lives in Watkins Glen, NY. I write about the environment and politics on my website, Waterfrontonline.blog. For more detail on my background, see the "Peter's Bio" section on that site. [View all posts by Peter Mantius](#)

1 Comment

1.

Leon Edward Zaharis says:April 29, 2023 at 3:25 am

Hello Peter,

I think the sewage sludge can be safely disposed of and not spread on land by using alkaline hydrolysis as is done at the Cornell University veterinary college with large animal carcasses.

As I understand it this process uses common Lye and Heat of 160 degrees Fahrenheit under pressure to create a liquid that can safely be disposed of in a sanitary sewer.

It would be a money and problem solver to get rid of sewage sludge at the source and perhaps also safely dispose of landfill leachate as well.

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