TOWN OF OYSTER BAY

DRAFT Local Solid Waste Management Plan

Public Hearing December 10, 2019



TOWN OF OYSTER BAY DEPARTMENT OF PUBLIC WORKS DEPARTMENT OF ENVIRONMENTAL RESOURCES 150 MILLER PLACE, SYOSSET, NY

SUBMITTED TO:

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION JULY 2019

AGENDA

- Background/LSWMP Regulatory Requirements
- Summary of Town of Oyster Bay Draft LSWMP
- Next Steps
- Public Comments



What is a "LSWMP"?

A *Local Solid Waste Management Plan (LSWMP)* is a tool used by municipalities for solid waste management.

Regulatory Requirements:

All *planning units* (i.e. county, town or municipality, etc.) are required by New York State and the New York State Department of Environmental Conservation (NYSDEC) to have an approved LSWMP.

The Planning Unit for the Town of Oyster Bay is its *Solid Waste Disposal District (SWDD)*

What is its Purpose?

The purpose of a Local Solid Waste Management Plan is to identify the path to be pursued for managing solid wastes generated within a planning unit during a ten-year planning period, in an economically and environmentally sound manner that is consistent with the State's solid waste management policy. *The ten-year planning period for the Town of Oyster Bay SWDD is 2019-2028.*

An overarching goal of a LSWMP is to reduce the amount of solid waste destined for disposal by preventing its generation and increasing its reuse or recycling.

NYS Solid Waste Management Policy

The **Solid Waste Management Act of 1988** established a State Solid Waste Management Policy. The policy defines the following solid waste management priorities in New York State:

- First, to reduce the amount of solid waste generated;
- Second, to reuse material for the purpose for which it was originally intended or to recycle material that cannot be reused;
- Third, to recover, in an environmentally acceptable manner, energy from solid waste that cannot be economically and technically reused or recycled; and
- ➢ Fourth, to dispose of solid waste that is not being reused, recycled or from which energy is not being recovered, by land burial or other methods approved by the Department (from New York State Environmental Conservation Law (ECL) 27-0106.1).

New York State Requirements to Prepare a LSWMP

The preparation and content of a solid waste management plan is governed by the following:

- > The New York State Solid Waste Management Act (Chapter 70 of the Laws of 1988);
- Title 1 of Article 27 (Solid and Hazardous Waste Management Policy and Planning) of the New York State Environmental Conservation Law (ECL);
- Part 360/366 (Local Solid Waste Management Planning) of Title 6 of the New York Codes of Rules and Regulations (NYCRR);
- The Town's LSWMP was originally prepared in 2013, and revised in July 2019, based upon comments received after NYSDEC reviewed the document. NYSDEC accepted the draft in August 2019;

> A public comment period is required as part of the approval process.

Town of Oyster Bay Local Solid Waste Management Plan

The priorities of the Town of Oyster Bay conform to the objectives of the State as identified in the New York State 2010 Beyond Waste Plan (A Sustainable Materials Management Strategy for New York State).

This LSWMP was developed through the Town of Oyster Bay Supervisor's Office, the Department of Environmental Resources (DER), and the Department of Public Works (DPW).

The Town's Solid Waste Management Program emphasizes conservation of resources through sound waste handling and disposal practices, and protection of local natural resources.

The goals of the Town's program are accomplished through: solid waste reduction practices; reclamation of materials from the waste stream for recycling and composting; and residuals disposal. The 10-year planning period for this LSWMP encompasses 2019 through 2028.

Draft LSWMP Contents

- Introduction
- Planning Unit Description
- Solid Waste Quantity and Types
- Existing Program Description
- Future Solid Waste Projections
- Fechnology Evaluation
- Integrated System Selection
- Implementation Schedule
- New Laws and Financial Considerations



Existing Program Description



TOWN OF OYSTER BAY SOLID WASTE MANAGEMENT PLAN

SOLID WASTE DISPOSAL DISTRICT BOUNDARIES

59 Square Miles57% of Town of Oyster Bay Land Area90% of Town of Oyster Bay Population



Old Bethpage Solid Waste Disposal Complex (OBSWDC)

The Town's LSWMP planning unit's solid waste stream is processed through the Town of Oyster Bay's Old Bethpage Solid Waste Disposal Complex (OBSWDC), a New York State-permitted solid waste disposal facility.

The majority of the wastes managed through this facility are derived from:

Municipal Solid Waste and recyclables regularly collected from the SWDD's residents and brought to the facility by the Town's collection services; wastes from *residential drop-off programs; yard wastes* from Town collection and residential drop-off programs; and other solid wastes brought in by *private haulers*.



Bethpage-Sweet Hollow Road Old Bethpage



What Waste is Collected?

SOLID WASTE QUANTITIES AND TYPES MANAGED BY THE SWDD, 2017

Material Type	Amount Received at OBSWDC (Tons)	Percentage of Waste Stream
MSW	116,611.45	71.92
Bagged Yard Waste	13,296.23	8.2
Brush, Branches, Trees & Stumps	7,674.77	4.73
Paper – Newspaper, Mixed paper and corrugated cardboard	3,910.74	2.41
Co-mingled Containers- Glass, metal and plastic	6,630.72	4.09
Single Stream	9,087.96	5.61
Concrete & Asphalt (from town- contracted construction projects)	3,573.32	2.20
White Metal	919.71	0.57
E-Waste	367.78	0.23
Tires	65.76	0.04
TOTAL	162,138.44	100%

Current Recycling Program

- Recyclables, including paper, cardboard, metals and plastic containers are collected curbside from a single recycling bin.
- Glass is not included in the curbside collection program
- The Town is operating a pilot program where residents are encouraged to bring glass containers to recycling igloos located throughout the Town.

Other Town Recovery Programs

Homeowner's Cleanup Program (HCP)

On specially designated Saturdays from May through October, the Town conducts the Homeowner's Cleanup Program exclusively at the OBSWDC. Participation is limited to residents of the SWDD, bringing in waste via car, van, pickup truck and/or small trailer. Trucks with six or more wheels are prohibited.

STOP Program for Hazardous Wastes

In September 1986, the Town of Oyster Bay became one of the first municipalities in New York State to institute an approved program for the collection and proper disposal or recycling of household hazardous wastes. The STOP ("Stop Throwing Out Pollutants") program offers Town residents a voluntary method of household hazardous wastes from the waste stream prior to disposal

Solid Waste Projections

TABLE 4.2 - Tonnages received at OBSWDC

			2017 (1)	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
		%												
(based on .4%/year -	SWDD Population		256,122	257,146	258,175	259,208	260,245	261,286	262,331	263,380	264,434	265,491	266,553	267,619
increase from 2010-2016)	Projection													
(assume 1.0% reduction/vr)	SWDD Total Waste Stream		162,138	160,967	160,009	159.462	158.067	157.111	156.165	155.647	154,285	153.351	151.654	149,979
(3.46 lb/person/day in 2017)	Generation Projection		3.4600	3.4300	3.396	3.3617	3.3281	3.2948	3.2619	3.2293	3.1970	3.1650	3.1175	3.0708
assume diversion rate	Tons diverted	27.9	45,527	44,910	44,643	44,490	44,101	43,834	43,570	43,426	43,046	42,785	42,311	41,844
of 27.9 (based on % MSW	from wastestream													
	MSW	71.9	116,611.00	115,735	115,046	114,653	113,650	112,963	112,283	111,910	110,931	110,259	109,039	107,835
(will be SSR 2018-)	commingled+	12.13	19,629.00	10 535 30	10.361.00	10 204 00	10 126 11	10.010.42	18,895.97	10 022 20	10.000.40	10 555 47	10 250 12	10 147 46
(based on % in 2017)	paper + SSR (2)	12.13	19,629.00	19,525.30	19,361.09	19,294.90	19,126.11	19,010.43	18,895.97	18,833.29	18,668.49	18,555.47	18,350.13	18,147.46
(assume steady %-age)	Bagged Yard Waste	8.22	13,296.00	14,326.06	14,240.80	14,192.12	14,067.96	13,982.88	13,898.69	13,852.58	13,731.37	13,648.24	13,497.21	13,348.13
	Brush, Branches,	4.74	7,675.00	7,443.00	7,520.42	7,494.71	7,429.15	7,384.22	7,339.76	7,315.41	7,251.40	7,207.50	7,127.74	7,049.01
	Trees, Stumps	J												
Enameled Good	s, White Appliances	0.57	919.71	917.51	912.05	908.93	900.98	895.53	890.14	887.19	879.42	874.10	864.43	854.88
	Electronics	0.2	367.78	321.934	320.018	318.924	316.134	314.222	312.33	311.294	308.57	306.702	303.308	299.958
	Tires	0.04	65.76	64.39	64.00	63.78	63.23	62.84	62.47	62.26	61.71	61.34	60.66	59.99
(from Town projects)	C&D	2.21	3,573.32	3,557.37	3,536.20	3,524.11	3,493.28	3,472.15	3,451.25	3,439.80	3,409.70	3,389.06	3,351.55	3,314.54

(1) waste stream numbers based on actual 2017 numbers from OBSWDC

Waste generation of 3.46 lb/person/day based on 2017 waste generation numbers

(2) SSR began October 2017; tonnages include totals of commingled containers and paper

(3) This is a conservative estimate - SSR has shown to increase diversion rates; biennial reports will update data

Estimates of Commercial MSW and recyclables based on 31%/69% split	2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027
Est tonnage of comm'l MSW in SWDD	52,390	51,997	51,688	51,511	51,060	50,751	50,446	50,278	49,839	49,537	48,989
Est tonnage of comm'l recyclables in SWDD	20,454	20,177	20,057	19,988	19,813	19,694	19,575	19,510	19,339	19,222	19,009

Future Plans

10 YEAR IMPLEMENTATION SCHEDULE



Highlights of Implementation Schedule

- ✓ Continue to explore ways to reduce MSW generation
- ✓ Continue popular yard waste collection, STOP and HCP programs
- Conduct feasibility study of commercial food waste separation program
- Conduct analysis of food waste stream within SWDD and feasibility of food waste separation program
- ✓ Collect data on commercially generated waste
- ✓ Develop RFP for new facilities at OBSWDC
- Consider expansion of recycling program



TABLE 7-1 TOWN OF OYSTER BAY LSWMP IMPLEMENTATION SCHEDULE

	Table 7.1 Implementation Components	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028
1	Continue operation of collection district in accordance with SWMP components										
2	Continue SSR Program and analyze trends in recycling										
	- Assess Current Program										
	- Evaluate current markets and future trends										
	- Participate in DEC stakeholder meetings to identify new actions/initiatives										
	- Educate public about acceptable recyclable materials and contamination										
	- Consider enforcement policies to reduce contamination of material stream										
	 Consider expansion to include gable-top containers, rigid plastics, plastic wrap, if markets exist 										
	- Re-evaluate textiles separation collection										
	 Evaluate glass recycling, igloo pilot program and other potential markets for glass 										
3	Collect data on quantities and origin of commercially generated waste within SWDD*										
	 Compile list of commercial property owners from tax rolls 										
	- Conduct commercial property owners' survey to identify waste disposal										
	- Enforce reporting requirements for private carters permitted by Town										
	- Compile report										
4	Obtain data from private, permitted/registered solid waste facilities in SWDD*										
	- Survey facilities listed in Table3-1A										
	- Obtain copies of these facilities' DEC annual reports, if available										
5	Collect data on generation of C&D debris within SWDD*										
	 Collect data on building permits to determine new construction and renovation projects from building department 										



	- Enforce reporting requirements for private carters permitted by Town	—					
	- Compile report	+					
6	Reduce Municipally-generated waste						
	- explore ways to reduce waste, such as reducing printing, using double sided, etc.						
7	Continue SWDD-wide Yard Waste Separation Program	-					
	- Conduct Feasibility Study for Kraft bag collection						
	- Conduct Feasibility Study for Town-run composting facility	1					
	Evaluate current composting programs in the region	1					
	Evaluate potential sites	1					
	Evaluate potential challenges and successes	1					
	- Re-evaluate SWDD-wide ban on grass clippings						
8	Fall Leaf Collection Program – Continue program						
9	STOP Program – Continue program						
10	HCP Collection Events – Continue events						
11	Monitor and support Product Stewardship						
	- Evaluate feasibility of expanding "take-back" programs	1					
	- Inventory existing product reuse programs	1			-		
	- Work with the New York State Product Stewardship Council						
12	Conduct Feasibility Study of a Commercial Food Waste Separation						
	Program						
	- Survey major generators of food waste to identify volumes						
	- Identify opportunities for food diversion to local panties/kitchens]					
	 Research existing organics management programs in comparable planning units (with regards to population/density/geography) 						



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	- Evaluate existence of organics infrastructure	 	<u> </u>					<u> </u>	<u> </u>
	- Determine level of involvement required and support required from local, County and/or State								
	- Evaluate the economic, environmental and operational feasibility								
	 Conduct a pilot study of a Commercial Food Waste Separation Program if feasible 								
13	Conduct an analysis of the residential food waste stream within SWDD, and feasibility of food waste separation program								
	- Research programs in comparable planning units								
	- Determine required infrastructure and feasibility								
	- Produce report with recommendations								
14	Study feasibility of PAYT Program								
	- Research PAYT programs in comparable planning units								
	- Analyze results								
	 Determine if further study is warranted – if so, monitor PAYT interest through surveying residents 								
15	Continue Public Education and Outreach								
	 Update recycling website and include updated materials for downloading 								
	- Identify and promote the list of what can and cannot be recycled								
	- Expand public outreach efforts on backyard composting								
	- Public education on food waste separation, if feasible								
	- Seek to expand target user groups or cohorts								
40	Continue the ongoing updating and replacement of collection vehicles								
16									
	- Evaluate the developing of alternative propulsion technologies				 				
17	OBSWDC Land Use Plan Improvements								
	- Continue to review OBSWDC Land Use Plan								
	- Intermediate improvements								
	- Final improvements								
18	Collect data on Industrial and agricultural waste generation*								
19	LSWMP Compliance Report to NYSDEC								



- 45-day Public Comment Period on the Draft LSWMP closes on January 24, 2020
- All written comments received during the Public Comment period and verbal comments made at this Public Hearing are compiled and responses developed
- Draft LSWMP is updated as required
- Updated Draft LSWMP including comments/responses is provided to NYSDEC for review
- > Draft LSWMP formally adopted (Part 366-4.1) by the Town as final
- > The adopted LSWMP is then provided to the NYSDEC
- > The Town implements the Plan and reports to NYSDEC as required

Draft LSWMP is Available

Office of the Town Clerk: 54 Audrey Avenue, Oyster Bay NY

Town of Oyster Bay Website:

www.oysterbaytown.com

Written Comments accepted through January 24, 2020:

Department of Public Works LSWMP Public Comment 150 Miller Place Syosset, NY 11791