TOWN OF RIVERHEAD

FINAL LOCAL SOLID WASTE MANAGEMENT PLAN

(6 NYCRR Section 360-15.11)

UPDATE 2020 - 2029



Prepared By:

ENGINEERING DEPARTMENT TOWN OF RIVERHEAD 1295 Pulaski Street Riverhead, NY 11901

Drew Dillingham, PE Sanitation Department Superintendent

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711 1 211271 2	For a Period of Five Years From January 1, 2018 Through December 31, 2022	
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CHAPTER 1 - PLANNING UNIT DESCRIPTION

1.1 Size and Geographic Location

The planning unit consists of the Town of Riverhead (the Town) including all hamlets and other communities within the Town boundaries. Covering approximately 201.27 square miles, the Town of Riverhead is located on the eastern end of Long Island, bounded by the Long Island Sound to the north, Southampton Town to the south, the Peconic Bay and Southold Town to the east, and the Town of Brookhaven to the west. 3

1.2 Population Served

The US Census Bureau 2010 population for the Town is 33,506 people. This a 21% increase since the 2000 Census. The majority of the residents (86.1%) are white and non-Hispanic. US Census Bureau 2010 figures on housing indicate 15,424 housing units available, of which 2,434 housing units are vacant. The remaining 12,990 occupied housing units are split – 77.5% owner occupied and 22.5% renter-occupied. A comparison of US Census data from Census 1990, Census 2000, and Census 2010 shows that total population in the Town has increased significantly (45.6%). Total housing units for this same 20 year period have increased 42.3% since 1990. Data suggests a steep increase in population.

1.3 Population Density Breakdown

Town population density breakdown is 19.99% rural, 80.01% suburban, and 0% urban. These statistics are taken from the default Town of Riverhead population data provided in the NYSDEC Population and Municipal Solid Waste Composition Calculator and is consistent with observed local demographics as reported by the Town of Riverhead Planning Department. This is the same calculator utilized in the estimates of weights and composition of wastes generated within the Town and projections of future waste characteristics.

1.4 Planning Unit Members

The planning unit consists of all municipal entities of the Town of Riverhead, including the unincorporated hamlets of Aquebogue, Baiting Hollow, Calverton, Jamesport, Laurel, Manorville, Northville, Riverhead and Wading River. The planning unit members are unchanged in the past ten years and are anticipated to remain unchanged in the next 10 years of the planning period for this Draft Local Solid Waste Management Plan (DLSWMP).

Riverhead, New York Town Town of Riverhead Riverhead New York Show map of Long Island Show map of New York Show all Coordinates: 40°55'42'N 72°39'44'W Country United States State New York County Suffolk

https://en.wikipedia.org/wiki/Riverhead (town), New York

201.27 sq mi (521.28 km²)

67.43 sq mi

(174.63 km²)

133.84 sq mi

(346.65 km²)

Area^[2]

Total

Land

Water

1.5 Membership Changes Since Last Approved LSWMP

Planning unit membership is unchanged since 1990.

1.6 Municipalities in Planning Unit Not Participating in the LSWMP

All municipalities and entities within the Town are participating in the LSWMP. There are no exclusions within the planning unit.

1.7 List of Neighboring Planning Units

Planning Units that are adjacent to the Town of Riverhead are: the Towns of Southampton, Brookhaven and Southold.

1.8 Effects of Tourism and Seasonal Variations of Population and Land Use

Information provided by the Town of Riverhead Chamber of Commerce indicates increased tourism activities over the past decade. In most recent years, tourism has been strongest among those taking day trips and short weekend trips, as the Town of Riverhead becomes a cost attractive, scenic vacation destination. Municipal solid waste (MSW) seasonal quantity variations are explained largely by tourist population increases in the summer. Short increases in waste and recyclables are experienced around the winter holiday season associated with increased consumer activities. Decreases in construction and demolition debris (C&D) are governed largely by weather, with winter measurably decreasing construction activities and the associated waste stream.

Waste quantities variations are additionally impacted by environmental regulations addressing waste water, solid waste, and open burning. Waste disposal rates tend to stabilize through the year, with the expected seasonal flux.

1.9 Influence of NYC Watershed

None of the Town of Riverhead's land mass is situated within the NYC watershed.

1.10 Significant Commercial Activities & Industries

The Town maintains a significant agricultural economy. Even with the steady decline of traditional row-crop farming in the region, agriculture has retained a strong foot hold with the help of diversification of agricultural and specialty farm products. Over 400 parcels of agricultural land occupy nearly 13,000 acres. Principal sources of cash farm income include wine and table grapes, vegetables, microbrewery products, and seafood. From honey, to fresh produce, hops, chicken, pork, lamb, goat milk and cheese, eggs, and jams are produced locally. Market opportunities both wholesale and direct retail through many farmers' markets, farm stores, fish markets, back road farm or seafood stands or restaurants offering true farm-to-table or local seafood dining.

Natural resource based industries are dominated by the support water bodies and waterways. The Long Island Sound, the Peconic River and the Peconic Estuary are resources that are used for fishing and recreational activities such as canoeing, kayaking, sailing, and swimming. Protection of surface waters from contaminated runoff is critical for the protection of both the fishing and tourism industries. Natural resource-based industries include: Splish Splash Water Park, Long Island Aquarium, several marinas and boat launch facilities, camp grounds, Buoy One Seafood Restaurant, PE & DD Seafood's Little Fish Shop, and Riverhead Indoor Farmer's Market.

Retail business supporting the agricultural community include Talmadge Farm Agway, Long Island Cauliflower Association, Chief Equipment, Inc., John Deere Landscapes and Malvese Equipment Co., Inc.

Specialty manufacturers produce beer and wine products within the Town. Companies include Moustache Brewery, North Fork Brewery, Long Ireland Brewery, Trade Winds Brewery, Jamesport Farm and Brewery, Palmers Vineyards, Jasons Vineyards, Martha Clara Vineyards, Jamesport Vineyards, Roanoke Vineyards, Paumanok Vineyards, Dilberto Winery and Sherwood House Vineyards.

Throughout the commercial and industrial sectors, support for rising economic vitality in the Town of Riverhead is enhanced by an employment sector comprised of governmental, educational, institutional, and not-for-profit organizations, including New York State Department of Transportation, Northwell Health, Suffolk County Supreme Court, Suffolk County Passport Office, Suffolk County Family Court, Suffolk County Soil and Water Conservation District, Natural Resources Conservation Service, Cornell University Agricultural Experiment Station, Cornell Cooperative Extension Service, Long Island Cauliflower Association and Suffolk County Community College Culinary Arts Institute.

1.11 Administrative and Financial Structure of the Planning Unit

Administration of solid waste services within the Town of Riverhead planning unit is provided by the Town of Riverhead Sanitation Department. The Sanitation Department provides expertise, regulatory review and compliance, and engineering support through the Engineering Department. Infrastructure directly providing solid waste services is based out of the European-American Waste Disposal Corp. facility at 1000 10th St, Ronkonkoma, NY. European American is owned and operated privately and has provided curbside pickup services to the Town since 2012. European American is contracted with the Town through 2022.

The solid waste program is divided into six residential Refuse Districts, A-F (see map next page), and Town facilities. Decisions and financial obligations relative to curbside pickup and Town facility pickup are the responsibility of the Town, which also provides support services for regulatory compliance.

Town residents not living in a private community have direct access to curbside pickup. Solid waste from Town facilities is picked up weekly by Town personnel and equipment and disposed of at Peconic Recycling and Transfer located at 560 Commerce Road, Cutchogue, NY. Commercial businesses are responsible for contracting with one of the Town's approved solid waste carters.

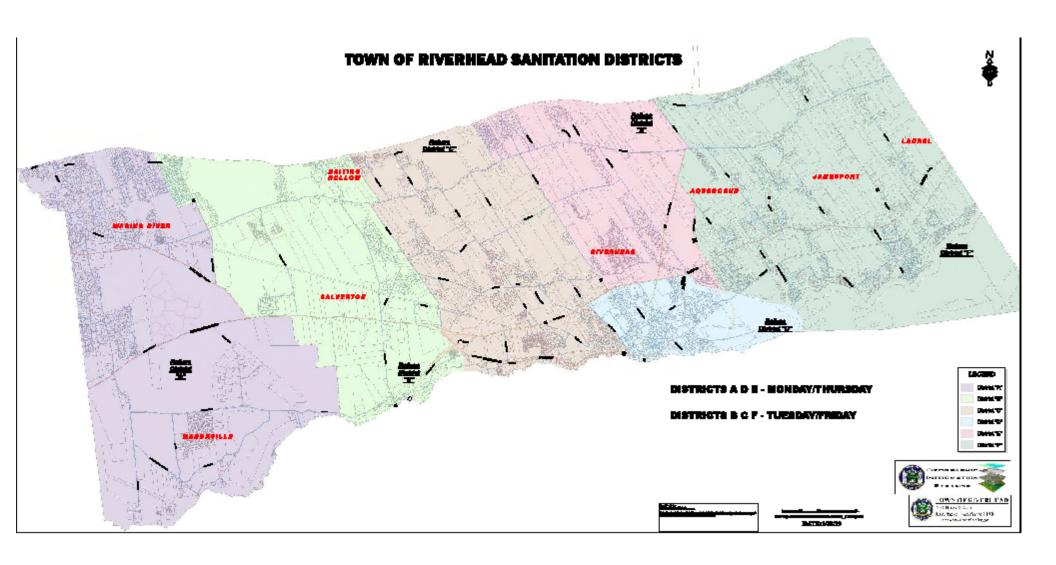
Financial support for residential curbside pickup and Town Sanitation services are provided through a dedicated Town Sanitation Tax. The money that is collected through the Riverhead School District and Town taxes are distributed to each of the entities on a pro-rata basis as each payment is received. The total tax collected for the year is then reconciled with Suffolk County. The County remits any shortages in amounts that were to be collected, which is again distributed to each of the entities on individual pro-rata basis. The program's freedom from excessive reliance of tipping fee revenues from a Town landfill or transfer station allows the Town to extend MSW disposal, yard waste, and recycling services with no tipping fees. The stability of a flat Sanitation Tax funding further supports long term services. Additional revenues are generated through grant funding.

The Town's solid waste program is not dependent on a minimum tonnage of wastes, and the associated tipping fees from those wastes. The Town continues to provide a broad array of solid waste services to the planning unit community based upon long term system performance rather than short term cash flow.

1.12 Solid Waste Management Practices that were Both Successfully and Unsuccessfully Implemented in the Previous LSWMP

The Town of Riverhead's last LSWMP that was approved by the New York Department of Environmental Conservation (NYSDEC) was dated 1990. The Town developed a DLSWMP in 2009 that was never approved by the NYSDEC.

Beginning in 2021, the Town Highway Department will discontinue loose leaf pickup. However, the quantity of bagged leaves from curbside pickup is expected to increase dramatically during 2021 and after because of the termination of loose leaf pickup by Highway. During 2020 the annual loose leaf pickup by Highway was deposited in the Town Yard Waste Facility. As a result of the deposition of loose leaves by Highway during 2020 and the expected increase in volume from bagged residential leaves picked up at the curb by the Towns contracted carter to the Yard Waste Facility the Town plans to register the facility in 2021. The registration will allow a throughput of 10,000 cubic yards annually. The Town has not changed any other solid waste management activities or practices during the past 10 years.



CHAPTER 2 - WASTE GENERATION & MATERIALS RECOVERY DATA AND PROJECTIONS

2.1 MSW Projections

Ten (10) year projections of MSW tonnages have been estimated using the NYSDEC waste calculator for MSW. Historic solid waste tonnages in the Town of Riverhead suggest a baseline per capita waste generation rate of 5.15 lbs/capita/day which is greater than the USEPA reported national values of 4.44 lbs/capita/day and equal to the NYSDEC default value of 5.15 lbs/capita/day. The baseline generation rate is based on 2019 population projections and MSW generation rates from Step 3 in Appendix A, MSW Waste Projection Tables. Final projection estimates include tonnages and material composition and are described further in Chapter 7. Identified sources and generators of MSW are described in further detail following below. The source of the disposal data presented in this SWMP for waste generated in the Town of Riverhead was provided by all carters licensed with the Town. All carters operating in the Town must be licensed and provide quarterly reports of waste generated by category.

2.1.a Sources and Generators of MSW

2.1.a.1 Residents - Major Population Centers

The Town of Riverhead consists of nine unincorporated hamlets shown with corresponding populations as of the 2010 census: Aquebogue (pop. 2,438); Baiting Hollow (pop. 1,642); Calverton (pop. 6,519, a small portion in the Town of Brookhaven); Jamesport (pop. 1,710); Laurel (pop. 1,294, predominantly in the Town of Southold); Manorville (pop. 14,314, predominantly in the Town of Brookhaven); Northville (pop. 1,340); Riverhead (pop. 13,299); and Wading River (pop. 7,719, a small portion in the Town of Brookhaven).

2.1.a.2 Large Retailers/Commercial Centers

Each of the hamlets sustain small retail plazas and a combination of agriculture, retail, warehouse, and professional businesses.

2.1.a.3 Municipal Buildings

Federal, State, County and Town offices are located throughout the planning unit area and are consistent in their waste and recyclable volumes with other offices in the Town.

2.1.a.4 Institutions, School Districts & College

Riverhead Central School District has a student to teacher ratio of 16:1 (2018-19 Public School Review) compared to the state average of 14:1 (2018-19 Public School Review). The graduation rate for Riverhead High School from 2017-2018 was 80% (data.nysed.gov) compared to 81% for New York State (data.nysed.gov). Total student body among all school districts for all grades is 5,488 students (2017-18 data.nysed.gov).

Riverhead Charter School and St. John Paul II Regional School are located in the Town providing education for grades K-8. The Charter School is a public school and St. John Paul II Regional School is a private school.

The Suffolk County Community College Culinary Arts center, located in downtown Riverhead, provides a two-year Associates Degree in culinary arts as well as other related programs. The arts center is affiliated with the Eastern Campus of Suffolk County Community College which is located south in the Town of Southampton. SUNY Empire State College also maintains a branch in downtown Riverhead.

2.1.a.5 State, County and Federal Parks and Public Spaces

State parks include:

Wildwood State Park comprises 767-acres that include a beach on Long Island Sound, a playground, SWMP 2020 to 2029.wpd Page 9

picnic tables, hiking and biking, fishing, a campground with tent and trailer sites, cross-country skiing, recreation programs and a food concession.

Hallock State Park Preserve is a 225-acre park and nature preserve containing woodlands, open areas and a rare coastal perched pond, in addition to a one-mile-long beach trail along Long Island Sound. It is intended to serve as a nature preserve in addition to allowing passive recreation such as hiking, fishing, non-motorized boating, and seasonal horse-riding and scuba diving. Development of the remainder of the preserve is in the planning stages and may include formal trails, environmental education, and activities appropriate for a park preserve.

There are no federal parks in the Town of Riverhead.

Indian Island Park is a 275-acre county park which offers trailer and tent campsites plus picnic tables, grills and a playground. The park also includes bird watching, fishing, hiking and golfing.

The North Fork Preserve is a 300-acre Suffolk County Park located between Sound Shore Road and Sound Avenue in Riverhead that includes bird watching, hunting and hiking.

2.2 Construction & Demolition Debris Projections

Separate 10 year waste projections were not developed for C&D debris in the Town of Riverhead. Residential C&D is disposed with MSW at the Town of Brookhaven Landfill by curbside pickup through the Town contracted waste hauler. C&D collected by the Town Sanitation Department is disposed of at Crown Recycling, located at 865 Youngs Avenue in Calverton. All other non-residential C&D is handled and disposed of by the individual generator.

2.2.a Significant Construction and Development Activities

In the past ten years there has been significant development particularly adjacent to the County Route 58 corridor. Developments include Walmart, Lowes, Riverhead Charter School, four solar farms, Island Water Park, Hobby Town, Popeye's, several business parks and several walk in medical facilities. Upcoming construction includes Sonic, Riverhead Islamic Center, a couple of microbreweries and several additional business or medical parks.

2.3 Industrial Waste

The most difficult waste stream to quantify and project the movement and disposal of is industrial waste. This material has generation rates that are highly variable and driven by the merchant - customer relationship and customer demand. Additionally, the material is not handled through the Town of Riverhead Sanitation Department and is handled outside of Town boundaries for material that has alternate use value as an energy source, marketable commodity, or subject to corporate dictates. In the Town of Riverhead there are no sources of industrial waste that impact the Town's solid waste program. Only residential and Town-generated MSW and recyclables are managed by the Town. Non-industrial MSW and recyclables generated from industry is managed by privately-contracted carters.

2.4 Biosolids

All biosolids generated in the Town of Riverhead are sourced from Town waste water treatment plants (WWTPs). It is anticipated for the 10 year planning period for this DLSWMP that biosolids will continue to be received and managed at the WWTPs at levels that are comparable to current rates. All biosolids are currently disposed of off-site in Pennsylvania at a permitted facility. Construction and expansion at the Riverhead WWTP went through a substantial growth period following new New York State Department of Environmental Conservation (NYSDEC) regulations. All of the treatment plant upgrades and new construction facilities have been completed for the facility in Riverhead. A significant expansion is underway for the Calverton WWTP. Accordingly, the current volume of biosolids is believed to be stable for the 10 year planning period of this DLSWMP.

2.4.a Waste Water Treatment Plants

Municipal WWTPs currently service Riverhead and Calverton hamlets. All of the biosolids, and grit are

hauled out of state for disposal. There is no land application of WWTP biosolids anywhere within the Town of Riverhead. Due to land use regulations and restrictions, biosolids generation is higher per capita than either state or national values. It is fully anticipated that the volume of biosolids will remain relatively constant during the 10 year planning period.

2.5 10yr Past History - Performance of Existing Solid Waste Program

The Town of Riverhead regularly measures the quantity and types of wastes received and managed through the Town's Sanitation Department. Since the start of full operations at the Yard Waste Facility in 2003, the Town has managed to significantly reduce the quantity of solid waste disposal. As expressed on a per capita per day basis, combined wastes disposed of have steadily dropped from 8.2 lbs/capita/day in 2009 down to 5.15 lbs/capita/day in 2019.

TOWN OF RIVERHEAD PERFORMANCE RATES SOLID WASTE DISPOSAL (lb/ capita¹/ day)						
Town of Riverhead Performance 2019 Actual	MSW Disposal Performance ₂ NYSDEC "Beyond MSW Waste" 2019 actual					
NYS Goals	MSW Disposal Goals NYSDEC "Beyond MSW Waste" Goals Year 2010	4.1				
	MSW Disposal Goals NYSDEC "Beyond MSW Waste" Goals Year 2012	3.8				
	MSW Disposal Goals NYSDEC "Beyond MSW Waste" Goals Year 2016	2.9				
	MSW Disposal Goals NYSDEC "Beyond MSW Waste" Goals Year 2020	1.7				
	MSW Disposal Goals NYSDEC "Beyond MSW Waste" Goals Year 2030	0.6				
1 Population total 40,397 per Census 2010 for 2019. 2 Disposal rate calculated using all waste sources managed through Town of Riverhead solid waste prograthat are ultimately incinerated externally.						

NYSDEC "Beyond MSW Waste", December 2010. Defined MSW does not include separate construction and demolition debris, biosolids, or industrial waste. Rate calculated from MSW, MRF & compost residuals tonnages landfilled in 2016. To evaluate performance of the existing solid waste program, comparisons are made to historical values and projected NYS goals articulated in "Beyond Waste" (2010). As defined in "Beyond Waste" the Town of Riverhead is a suburban community with a population density of 500 persons per square mile. Additionally, as defined in "Beyond Waste", municipal solid waste (MSW) municipal solid waste includes materials generated by the residential, commercial and institutional sectors, and does not include construction and demolition debris, biosolids, or industrial waste.

The reduction in hauling material out of Town for landfilling is due in large part to the materials processed at the Yard Waste Facility, with additional reduction through expanded conventional recycling. The following six tables/pie charts below show the history of the past ten (10) years of the Town of Riverhead including municipal solid waste receipts for landfill disposal (1), diversions (3), and total waste composition (2), respectively.

Reflected in these tables and pie charts are the marketing and infrastructure changes that the Town's solid waste program has made to both transform the program from material disposal to material management, and to address changes in market opportunities. Most dramatically the program has shown a significant reduction in out of Town land burial with the full implementation of the Yard Waste program; continued implementation of the STOP program; and continued recycling efforts. The Yard Waste facility includes on-site leaf, grass and wood grinding with off-site disposal through marketing by Crown Recycling. The Town also supplies residents with mulch and woodchips free of charge.

Specific to the materials recovery efforts, the past 10 years has seen the continuation of the STOP program which includes household hazardous wastes and electronics.

While the past 10 year history can be described as successful, the Town has identified additional opportunities for increasing the effectiveness of the recycling program with off-site glass processing and reuse. Please refer to Appendix B for the Town of Riverhead 2020 Recycling Calendar and MSW Flyer. This calendar and flyer outlines the Town's recycling guidelines, collection schedule and holidays. The associated letter includes helpful recycling information further explaining curbside pickup for both refuse and recyclables.

2.5.a

Town of Riverhead Municipal Solid Waste Management Types & Quantities of Solid Waste Receipts Managed for Incinerator Disposal (2010 population = 33,506)										
Town of Riverhead SWMC	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019
MSW INCINERATOR INPUTS - wet tons	MSW INCINERATOR INPUTS - wet tons									
MSW to Off-Site Incinerator	26190.20	23109.00	24649.60	23879.30	23322.02	23257.79	23960.95	27287.40	26774.33	24356.21
TOTAL MSW Incinerator Tons	26190.20	23109.00	24649.60	23879.30	23,322.02	23,257.79	23,960.95	27,287.40	26,774.33	24,356.21
TOTAL MSW Incinerated (Pounds per Capita per Day)	4.28	3.73	3.98	3.81	3.67	3.61	3.67	4.13	4.00	3.59

Please note that the solid waste receipts for the years 2010-2013 were estimated as these records were misplaced during the Sanitation Department's move from Howell Avenue to Pulaski Street. The Town will continue to search for these records and will replace the current data with actual receipt information if the records are found.

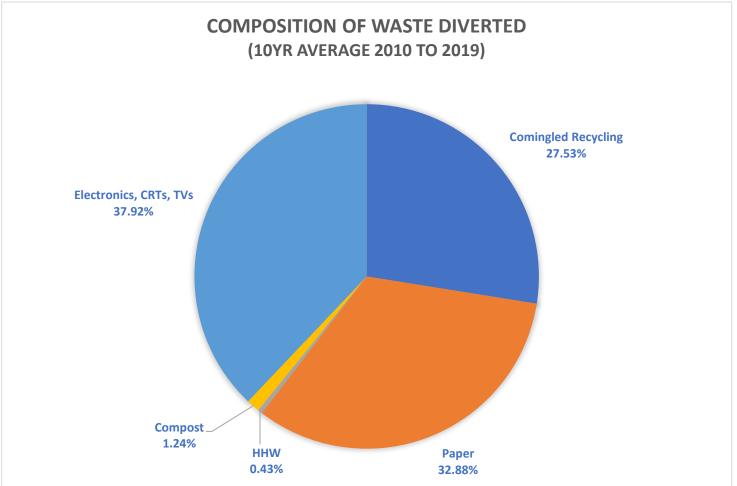
Because the MSW values derived from waste receipts for 2010-2013, the RSW values shown in the last table and pie chart will be replaced by values based on waste receipts should these documents be found.

2.5.b

(Pounds/Capita/Day)

Town of Riverhead Solid Waste Management Types & Quantities of Materials Diverted from Off-Site Incinerator Disposal (scale records in tons) Material / Year 2012 2017 2010 2011 2013 2014 2015 2016 2018 2019 Comingled Recycling 1234.02 1087.66 1030.43 1046.07 1143.39 1020.29 1057.58 1060.69 2523.41 1066.99 Paper 1745.50 1420.43 1588.36 1656.59 1392.96 1440.05 1242.96 1374.11 1320.02 1475.28 4.84 Electronics, CRTs, TVs 3.08 10.35 4.41 6.66 19.36 29.84 33.31 38.79 41.10 HHW 60.35 45.73 49.82 65.04 58.24 42.35 58.00 57.50 52.83 62.34 747.85 Compost 501.74 519.95 2079.81 1039.91 2339.79 2599.76 2911.73 2599.76 1559.86 4917.88 **SUB-TOTAL** 3530.07 4845.11 3625.26 5087.90 4194.16 3310.61 3214.13 6453.47 5392.28 MSW to Compost & Recycling 0.58 0.53 0.51 0.76 0.56 0.75 0.98 0.81 0.75 0.61

2.5.c



CHAPTER 3 - EXISTING SOLID WASTE MANAGEMENT SYSTEM

3.1 Current Inventory Description

The Town of Riverhead solid waste infrastructure and facilities are a combination of public and private ownership. The Town solid waste program control is focused primarily on curbside solid waste collection with solid waste disposal from Town facilities by the Town Sanitation Department. The collection system is controlled by the Town and preclude hamlets and other communities from implementing and enforcing their own solid waste regulations at the local level by local laws, land use standards, zoning, sub-division regulation, site plan review, or code enforcement.

Infrastructure in the form of landfill operation, recycling facilities and transfer services are not present in the Town. The Town's solid waste collection is performed by a private hauler. In addition, the Town operates a compost facility on Young's Avenue in Riverhead to address vegetative storm debris and construction debris from Highway Department operations.

3.2 Town of Riverhead Sanitation Infrastructure

Infrastructure components consist of a closed municipal solid waste (MSW) landfill, yard waste facility, composting facility and transportation. Please refer to Sections 3.18 and 3.19 for individual descriptions of the Town's Yard Waste and Composting Facilities.

3.3 Residential Solid Waste Collection Excluded from the Collection District

Residential Condominiums, private community townhouse developments, cooperatives and trailer parks are excluded from the Town's Solid Waste District. These developments are served separately by local private commercials carters. This excluded waste represents approximately 20% of all residential solid waste collected in the Town.

3.4 Non-Residential Solid Waste Collection

The Town's contracted private commercial carter does not collect non-residential (commercial, industrial and institutional) generated solid waste. All non-residential waste is collected and disposed of by the private commercial carters under contract to the individual establishment, land owner, lessee or tenant. Most commercial, industrial and institutional establishments within the Town use larger containers or dumpsters to store solid waste which are typically placed in the rear of the establishments. Private commercial carters collecting solid waste operate under the Town's permitting system and must be licensed to perform business inside the Town of Riverhead and currently do not report tonnages of solid waste collected. A copy of the Town's commercial private waste disposal license application is included in Appendix C.

The Town does not recommend any particular private commercial carter for servicing non-residential customers nor does it dictate business practices. There is a hauler licensing program currently in the planning unit. The Town requires annual licensing of all private haulers and self-deliveries. The licensing program requires the names of personnel working in the Town and detailed information on all sanitation equipment to be employed within the Town. Section 3.5 lists all private haulers conducting sanitation activities in the Town of Riverhead including tracking of waste from generation to final disposal.

3.5 Private Sector Solid Waste Facilities and Carters Permitted to Operate in the Town of Riverhead

Private solid waste carters are required to comply with solid waste local laws and are currently subject to permit by the Town solid waste program. Solid waste regulations at the Town level are established and enforced by local law, land use standards, zoning, sub-division regulation, site plan review, or code enforcement. Vehicles transporting regulated waste, including tires and HHW, must be permitted annually per 6 NYCRR Part 364.

The Town has only one licensed private solid waste management facility which is Crown Recycling, located at 865 Youngs Avenue in Calverton, NY. The Crown Recycling facility is located on 2.5 acres and has a capacity of 825 tons/day of construction debris and 375 tons/day of solid waste. The following is a list of other known private-sector solid waste carters in the Town:

3.5.1 Generation to Disposal Information For Private Carters

3.5.a. Peconic Recycling and Transfer Corp., 560 Commerce Road Mattituck NY 11935

- i. Carter Transfer Station 810 Commerce Road Mattituck NY 11935
 - 1. Transfer Station Capacity
 - a. MSW 400 tons/day
 - b. C&D 400 tons/day
 - 2. Processing of Materials at Transfer Station
 - a. Recyclables pulled and separated by commodity
 - b. Metals remain on Long Island and are sent for final disposal
 - c. Remaining Trash after separation process is sent to for final disposal
- ii. Carter Final Disposal of Metal, Facility #1 PK Metals, 3542 NY-112, Coram NY 11727
 - 1. Average intake = 165 tons/day
- iii. <u>Carter Final Disposal of Metal, Facility #2 Gershow Recycling Corp., 71 Peconic Ave.,</u> Medford, NY 11763
 - Did not respond to inquiry, listed as ONLY Vehicle Dismantler Facility on DEC website: ftp://ftp.dec.state.ny.us/dshm/SWMF/Annual%20Reports_Solid%20W aste%20Management%20Facility/Annual%20Reports_by%20Activity%20Type/)
- iv. MSW Final Disposal, Facility #1 Republic Services Carbon Limestone Landfill, 8100 S. State Rd, Lowellville, OH 44436
 - 1. Capacity 11,000 tons/day
- v. MSW Final Disposal, Facility #2 Waste Management Charles City Landfill, 8000 Chambers Rd., Charles City, VA 23030
 - a. Capacity 6,000 tons/day

3.5.b. Long Island Compost Corp. - 100 Urban Avenue, Westbury, NY 11590

- i. <u>Carter Final Disposal Facility 445 Horseblock Road, Yaphank, NY 11980</u>
 - a. This facility processes all materials taken in on site
 - i. Yard Waste 85,500 tons/year
 - ii. Wood Materials 3,000 yd³/day
 - iii. Organic Waste (Digester) 215,000 tons/year

3.5.c. National Waste Services LLC. - 1863 Harrison Avenue, Bayshore, NY 11706

- i. <u>Carter Transfer Station #1– Try Recycling, 135 South 2nd Street, Bayshore, NY 11706</u>
 - a. Transfer Station Capacity
 - i. $MSW 750 \text{ yd}^3/\text{day}$
- ii. Carter Transfer Station #2 45 Garfield Avenue, Bayshore, NY 11706

- a. Transfer Station Capacity
 - i. $C&D 750 \text{ yd}^3/\text{day}$
- iii. <u>Carter Final Disposal Facility #1 Huntington Recycling Center, 641 New York Ave, Huntington, NY</u> 11743
 - a. Final Disposal Facility Capacity and Types of Materials (as provided)
 - i. Hazmat Materials 2-3 tons/day (Radiac)
 - ii. Electronics 5 tons/day
 - iii. Plastics 2 tons/day
 - iv. Cardboard 1 ton/day
 - v. Metals 2 tons/day
 - vi. Grass 2 tons/day
 - 1. Power Crush Inc., 140 Old Northport Rd Kings Park NY 11754
 - vii. Commodity Recyclables
 - 1. OMNI Recycling, 7 Portland Avenue Westbury, NY 11590
 - viii. Light Bulbs
 - 1. American Lamp Recycling, 55 Riverview Dr. Marlboro NY 12542
- iv. <u>Carter Final Disposal Facility #2 Covanta Hempstead, 600 Merchants Concourse, Westbury, NY 11590</u>
 - a. Daily Intake (2019 Average as per DEC Website)
 - i. 2767 tons/day (received)
 - ii. 2747 tons/day (processed)
- v. <u>Carter Final Disposal Facility #3 Town of Brookhaven Landfill, 350 Horseblock Road, Brookhaven,</u> NY 11719
 - a. As per DEC website, 832,121.26 total tons solid waste was received in 2019.

3.5.d. Crown Sanitation - 865 Youngs Avenue, Calverton NY, 11933

- i. Carter Transfer Station Crown Sanitation, 865 Youngs Avenue, Calverton, NY 11933
 - a. Transfer Station Capacity
 - i. MSW 375 tons/day
 - ii. C&D 825 tons/day
- ii. <u>C&D Final Disposal Facility #1 Town of Brookhaven Landfill, 350 Horseblock Road, Brookhaven, NY</u> 11719
 - a. As per DEC website, 832,121.26 total tons solid waste was received in 2019.
- iii. <u>C&D Final Disposal Facility #2 –110 Sand and Gravel, 136 Spagnoli Rd., Melville, NY 11747</u>
 - a. As per the Engineer Jim Deveson their permit allows 6,000 tons/day.
- iv. MSW Final Disposal Facility #1 Republic Services Carbon Limestone Landfill, 8100 S. State Rd, Lowellville, OH 44436
 - a. Capacity 11,000 tons/day
- v. MSW Final Disposal Facility #2 Waste Management Charles City Landfill, 8000 Chambers Rd., Charles City, VA 23030
 - a. Capacity 6,000 tons/day

3.5.e. Winters Bros. Waste Systems - 82 Old Dock Road, Yaphank, NY 11980

i. MSW Carter Transfer Station – 971 Waverly Avenue, Holtsville, NY 11742

- a. Transfer Station Capacity
 - i. MSW 850 tons/day
- ii. C&D Carter Transfer Station 82 Old Dock Road, Yaphank, NY 11980
 - a. Transfer Station Capacity
 - i. C&D 780 tons/day
- iii. <u>Final Disposal Facility #1 Town of Brookhaven Landfill, 350 Horseblock Road, Brookhaven, NY</u> 11719
 - a. As per DEC website, 832,121.26 total tons solid waste was received in 2019.
- iv. <u>Final Disposal Facility #2 Republic Services Carbon Limestone Landfill, 8100 S. State Rd, Lowellville, OH 44436</u>
 - a. Capacity 11,000 tons/day
- v. <u>Final Disposal Facility #3 Republic Services Brunswick Landfill, 107 Mallard Crossing Road, Lawrenceville, VA 23868</u>
 - a. No capacity, Refused to disclose daily intake over the phone (434) 848-9277
- vi. <u>Final Disposal Facility #4 Waste Management Alliance Landfill, 398 South Keyser Avenue, Taylor, PA 18517</u>
 - a. Daily Maximum 5,000 tons/day
 - b. Daily Average Approx. 2,000 tons/day
 - c. Facility Remaining Capacity 24 Million Tons
- vii. <u>Final Disposal Facility #5 Republic Services Conestoga Landfill, 420 Quarry Road, Morgantown, PA</u> 19543
 - a. Rough Daily Intake 5,000 tons/day
 - b. Permit Allows 10,000 tons/day

3.5.f. Maggio Sanitation - 88 Old Dock Road, Yaphank, NY 11980

- i. Carter Transfer Station 88 Old Dock Road, Yaphank, NY 11980
 - a. Transfer Station Capacity
 - i. MSW 86 tons/day
 - ii. C&D 60 tons/day
 - iii. Cardboard 18 tons/day
- ii. <u>Final Disposal Facility #1 Town of Brookhaven Landfill, 350 Horseblock Road, Brookhaven, NY</u> 11719
 - a. As per DEC website, 832,121.26 total tons solid waste was received in 2019.
- iii. <u>Final Disposal Facility #2 Republic Services Carbon Limestone Landfill, 8100 S. State Rd, Lowellville,</u> OH 44436
 - a. Capacity 11,000 tons/day
- iv. <u>Final Disposal Facility #3 Waste Management Charles City Landfill, 8000 Chambers Rd., Charles City, VA 23030</u>
 - a. Capacity 6,000 tons/day

- v. <u>Final Disposal Facility #4 Peconic Recycling and Transfer Corp., 810 Commerce Road, Mattituck, NY</u> 11935
 - a. For Details see "Peconic Recycling and Transfer Corp." as listed 1) above

3.5.g. Long Island Waste Services LLC (DBA Jet Sanitation) - 390 N. Broadway, Suite 220, Jericho, NY 11753

- i. Carter Transfer Station 228 Blydenburg Road, Islandia, NY 11749
 - a. Transfer Station Capacity
 - i. MSW 13 tons/day
 - ii. C&D 1 ton/day
 - iii. Corrugated Recyclables 1 ton/day
- ii. <u>Carter Final Disposal Facility #1 Huntington Recycling Center, 641 New York Ave, Huntington, NY</u> 11743
 - a. Final Disposal Facility Capacity and Types of Materials (as provided)
 - i. Hazmat Materials 2-3 tons/day (Radiac)
 - ii. Electronics 5 tons/day
 - iii. Plastics 2 tons/day
 - iv. Cardboard 1 ton/day
 - v. Metals 2 tons/day
 - vi. Grass 2 tons/day
 - 1. Power Crush Inc., 140 Old Northport Rd Kings Park NY 11754
 - vii. Commodity Recyclables
 - 1. OMNI Recycling, 7 Portland Avenue Westbury, NY 11590
 - viii. Light Bulbs
 - 1. American Lamp Recycling, 55 Riverview Dr. Marlboro NY 12542
- iii. Carter Final Disposal Facility #2 Covanta Babylon Inc., 125 Gleam Street, West Babylon, NY 11704
 a. Average Intake 4,500 to 5,000 tons/week
- iv. <u>Final Disposal Facility #3 Town of Brookhaven Landfill, 350 Horseblock Road, Brookhaven, NY</u> 11719
 - a. As per DEC website, 832,121.26 total tons solid waste was received in 2019.
- v. <u>Final Disposal Facility #4 Republic Services Carbon Limestone Landfill, 8100 S. State Rd, Lowellville,</u> OH 44436
 - a. Capacity 11,000 tons/day
- vi. <u>Final Disposal Facility #5 Waste Management Charles City Landfill, 8000 Chambers Rd., Charles City, VA 23030</u>
 - a. Capacity 6,000 tons/day
- vii. <u>Final Disposal Facility #6 Omni Recycling of Babylon 114 Alder Street, West Babylon, NY 11704</u>
 - a. Capacity Company stated they cannot provide

3.5.h. Colucci Carting, 50 Miller Place - Yaphank Road, Middle Island, NY 11953

- i. MSW Carter Transfer Station 971 Waverly Avenue, Holtsville, NY 11742
 - a. Transfer Station Capacity
 - i. MSW 850 tons/day

- ii. C&D Carter Transfer Station 82 Old Dock Road, Yaphank, NY 11980
 - a. Transfer Station Capacity
 - i. C&D 780 tons/day
- iii. <u>Final Disposal Facility #1 Town of Brookhaven Landfill, 350 Horseblock Road, Brookhaven, NY</u> 11719
 - a. As per DEC website, 832,121.26 total tons solid waste was received in 2019.
- iv. <u>Final Disposal Facility #2 Republic Services Carbon Limestone Landfill, 8100 S. State Rd, Lowellville,</u> OH 44436
 - a. Capacity 11,000 tons/day
- v. <u>Final Disposal Facility #3 Republic Services Brunswick Landfill, 107 Mallard Crossing Road, Lawrenceville, VA 23868</u>
 - a. No capacity, Refused to disclose daily intake over the phone (434) 848-9277
- vi. <u>Final Disposal Facility #4 Waste Management Alliance Landfill, 398 South Keyser Avenue, Taylor, PA 18517</u>
 - a. Daily Maximum 5,000 tons/day
 - b. Daily Average Approx. 2,000 tons/day
 - c. Facility Remaining Capacity 24 Million Tons
- vii. <u>Final Disposal Facility #5 Republic Services Conestoga Landfill, 420 Quarry Road, Morgantown, PA</u> 19543
 - a. Rough Daily Intake 5,000 tons/day
 - b. Permit Allows 10,000 tons/day

3.5.i. Westbury Paper Stock Corp. – 173 School Street, Westbury, NY 11590

- i. <u>Carter Final Disposal Facility #1 Maggio Sanitation 88 Old Dock Road, Yaphank NY, 11980</u>
 - a. Facility Capacity
 - i. MSW 86 tons/day
 - ii. C&D 60 tons/day
 - iii. Cardboard 18 tons/day
- ii. Carter Final Disposal Facility #2 Crown Sanitation, 865 Youngs Avenue, Calverton, NY 11933
 - a. Facility Capacity
 - i. MSW 375 tons/day
 - ii. C&D 825 tons/day

3.5.j. Waste Tech, LLC – 475 Main Street, Farmingdale, NY 11735

- i. <u>Carter Final Disposal Facility Winter Brothers, 82 Old Dock Road, Yaphank, NY 11980</u>
 - a. Facility Capacity
 - i. C&D 780 tons/day

3.5.k. Chesterfield Associates, Inc. – P.O. Box 1229, Westhampton, NY 11978

- i. <u>Carter Final Disposal Facility Crown Sanitation, 865 Youngs Avenue, Calverton, NY 11933</u>
 - a. Facility Capacity
 - i. MSW 375 tons/day
 - ii. C&D 825 tons/day

3.5.l. Emil Norsic & Son, Inc. – 1625 County Road 39, Southampton, NY 11968

- Carter Final Disposal Facility #1 Town of Brookhaven Landfill, 350 Horseblock Road, Brookhaven, NY 11719
 - a. As per DEC website, 832,121.26 total tons solid waste was received in 2019
- ii. <u>Carter Final Disposal Facility #2 Winter Brothers, 971 Waverly Avenue, Holtsville, NY 11742</u>
 - a. Transfer Station Capacity
 - i. MSW 850 tons/day
- iii. Carter Metal Final Disposal Facility Gershow Recycling Corp., 71 Peconic Ave., Medford, NY 11763
 - a. Did not respond to inquiry, listed as ONLY Vehicle Dismantler Facility on DEC website: ftp://ftp.dec.state.ny.us/dshm/SWMF/Annual%20Reports_Solid%20W aste%20Management%20Facility/Annual%20Reports_by%20Activity%20Type/)

All waste carters operating within the Town must file quarterly reports identifying the types and quantities of solid waste and recyclable materials collected.

3.6 Town of Riverhead Collection Methods for C&D and Industrial Waste

Beginning in 1993 and through the present, residential C&D debris generated from minor repairs and renovations may be placed curbside with refuse/garbage for scheduled collection by the Towncontracted waste carter. Town generated C&D debris is disposed of at Peconic Recycling and Transfer by the Town Sanitation Department. Please see below for a detailed breakdown of MSW processing from generation to final disposal.

3.7 Town of Riverhead Solid Waste Collection District

The Town has established itself as a Solid Waste Collection and Disposal District. The District consists of six Contract Bid Areas (CBAs). Solid waste (including recyclables, yard waste and white goods/bulky items) from the CBAs is collected by a private carter who is contracted with the Town to dispose of the waste at an external permitted facility. The Town's CBAs are identified as areas A through F as shown on the Contract Bid Area Map (next page). Currently, all six CBAs are serviced by European American for the collection and disposal of all residential solid waste except for those communities that are excluded from the Town District as described in Chapter 4. European American was awarded the Town bid for all six residential solid waste CBAs for a period of five years from January 1, 2018 through December 31, 2022 by Resolution #594 as shown in Appendix D. Table 3-1 depicts the CBAs and their associated solid waste management costs for each family unit for the 9 year period from 2012 through 2020 as bid by European American and other previous carters.

TABLE 3-1
TOWN OF RIVERHEAD LOCAL SOLID WASTE MANAGEMENT PLAN
TOWN CONTRACT BID AREAS AND ASSOCIATED SOLID WASTE MANAGEMENT
YEARLY COSTS FOR EACH FAMILY UNIT

District	А	В	С	D	Е	F
2012	239.64/UNIT	239.64/UNIT	239.64/UNIT	239.64/UNIT	239.64/UNIT	239.64/UNIT
2013	239.64/UNIT	239.64/UNIT	239.64/UNIT	239.64/UNIT	239.64/UNIT	239.64/UNIT
2014	239.64/UNIT	239.64/UNIT	239.64/UNIT	239.64/UNIT	239.64/UNIT	239.64/UNIT

2015	239.64/UNIT	239.64/UNIT	239.64/UNIT	239.64/UNIT	239.64/UNIT	239.64/UNIT
2016	242.52/UNIT	242.52/UNIT	242.52/UNIT	239.64/UNIT	242.52/UNIT	239.64/UNIT
2017	242.52/UNIT	242.52/UNIT	242.52/UNIT	239.64/UNIT	242.52/UNIT	239.64/UNIT
2018	248.76/UNIT	248.76/UNIT	248.76/UNIT	248.76/UNIT	248.76/UNIT	248.76/UNIT
2019	248.76/UNIT	248.76/UNIT	248.76/UNIT	248.76/UNIT	248.76/UNIT	248.76/UNIT
2020	248.76/UNIT	248.76/UNIT	248.76/UNIT	248.76/UNIT	248.76/UNIT	248.76/UNIT

Source: Town of Riverhead Adopted Resolutions #911, 2011 and #594, 2017

3.8 Town of Riverhead Solid Waste Collection District Collection Practices

3.8.a Residential MSW Collection

There are 12,990 reported households in the Town of Riverhead (2010 US Census). Approximately 80% (10,162) of these households are serviced by curbside recyclable collection through a Town-contracted private hauler. As previously noted, the remaining households are comprised of private communities. Town-collected residential waste comprises 46% of the total output from the Town, including C&D, commercial and industrial MSW.

Residents are allowed to put out up to four bags of regular garbage on the first day of pick up and then up to four bags of regular garbage and up to 6 bulk items on the second day for a total of 14 items per week. CBAs A, D and E have scheduled regular and bulk curbside pickup on Monday and Thursday of each week. CBAs B, C and F have scheduled regular and bulk curbside pickup on Tuesday and Friday of each week. In the event that a collection day falls on a holiday, or in the event of a weather condition which prevents collection, the service scheduled will not be provided. Solid waste collection schedules for each residential contract bid area along with disposal regulations are communicated to Town residents via an annual distribution of a brochure, which is also available on the Town's website.

3.8.b. Residential MSW Disposal

All residential solid waste collected by European American is delivered to the Town of Brookhaven MSW transfer station under the term of a three year contract. The transfer station is located at 350 Horseblock Road, Brookhaven, NY and has an annual capacity of 323,000 tons. At the Brookhaven Landfill, waste is consolidated into larger trucks and transported to Covanta Hempstead, located at 600 Merchants Concourse, Westbury, NY 11590, and Covanta Babylon. Located at 125 Gleam St., West Babylon, NY. At Covanta Hempstead and Covanta Babylon the refuse is incinerated and the energy is transformed into electricity. Covanta Hempstead is located on 15 Acres and began commercial operation in 1989. It is Long Island's largest Energy-from-Waste facility. The facility accepts delivery of waste 6 days a week and processes 24 hours a day. Steam created in the combustion process drives an 80-megawatt turbine generator, producing electricity for in-plant use and for sale to the local utility. Waste processing capacity is 1,700 tons per day. Covanta Babylon processes 4,500-5,000 tons/week. Covanta Babylon also produces 17 megawatts of electricity daily. The ash by product is returned to the Brookhaven Landfill also at 350 Horseblock Road. Both Brookhaven and Covanta officials have been contacted and no plan is currently in place for ash disposal when the Town of Brookhaven Ash Landfill closes in 2024.

3.8.c. Paper and Cardboard Recycling

Cardboard and paper are collected by the Town's contracted carter every other Wednesday and brought to Great Northern Fibers LLC., located at 77 Field St, West Babylon, NY 11704. At Great Northern Fibers the material is cleaned, baled and prepared for transport. The facility has a throughput capacity of 250 tons per day of paper and cardboard.

The material is then collected by a hauler commissioned by a buyer and brought to Port Elizabeth located at 201 Export St, Newark, NJ 07114 for shipment to China. Once in China the material is processed and converted to cellulose fibers and reused into making various types of new paper products.

3.8.d. Co-Mingled Recyclables

Co-mingled recyclables are collected curbside by European American every other Wednesday and delivered to Town of Islip's Material Recovery Facility (MRF), located at 1155 Lincoln Avenue, Holbrook, NY, 11741. Material is processed through the MRF and separated into glass, metal, aluminum, tin, residual recycling and non-recyclable MSW.

Glass is brought to the Town of Islip's Blydenburgh Rd Landfill located at 440 Blydenburgh Rd, Hauppauge, NY 11788 and used as ground cover.

Metal, Aluminum and Tin are brought to Suffolk Industrial Recovery Corp dba PK Metals and located at 3542 Route 112 Coram, NY 11727. The facility handles over 50,000 tons of scrap metal annually. When the material is prepared and baled, it is shipped to a downstream user depending on current pricing. The majority of the cans shipped from the facility are delivered to NH Kelman at 41 Euclid Street, Cohoes, NY 12047.

Residual recycling is brought to Winter Brothers Recycling, located at 19 Nancy Street, West Babylon, NY 11704, for processing. The recyclables are sorted and plastics, tin and aluminum are recovered, baled and sold to various manufactures to produce new products. Permitted capacity is 3,600 tons per week.

Non-recyclable MSW is brought to the Town of Islip's Incinerator which is operated by Covanta and located at 4001 Veterans Memorial Highway, Ronkonkoma, NY 11779. The refuse is incinerated and the energy is transformed into electricity. The ash byproduct is returned to the Brookhaven Landfill located at 350 Horseblock Road.

The Town intends on partnering with the Town of Islip through an IMA as discussed in Section 5.5.c. The IMA will include the Town of Riverhead working with the Town of Islip in education and outreach with the public regarding acceptable materials in the recycling program.

3.9 Town In-House Waste Collection

Solid waste from all Town owned offices, buildings and park facilities are collected by two Town of Riverhead Sanitation Department Employees who utilize Town vehicles and equipment. The MSW is transported to Peconic Recycling and Transfer Corp. located at 560 Commerce Driver in Cutchogue, NY. At Peconic Recycling and Transfer the MSW is separated from the recyclables. The non-recyclable MSW is baled and transported to several different out of state landfills located in Virginia or Ohio and contracted with Peconic Recycling and Transfer. The precise disposal location is dependent upon the type of material and the current market. The plastic and cardboard is baled and shipped overseas or brought to local scrap metal firms such as PK Metal and Gershow Recycling. Gershow Recycling is located at 27 Hubbard Avenue in Riverhead, NY 11901.

3.10 Public Education and Outreach Activities

Public education and outreach activities are provided through multiple outlets and methods. The Town maintains an active website specific to the solid waste and recycling program. The Town's website includes current information on solid wastes and recyclables managed through the Town's program, curbside pickup schedule for MSW, recyclables and yard waste, specific information on customer guidelines, prohibited items, options for household hazardous wastes, compost availability, and links to other relevant websites (www.townofriverheadny.gov).

The Town has a storm water pollution prevention/waste recycling education program with the Third Grade at Roanoke Avenue School. The program involves the Sanitation and Engineering Departments visiting Roanoke Avenue School to promote storm water pollution prevention and waste recycling. The program also focuses on the Town's curbside program and how the recovered materials are processed and returned to the economic stream as useable goods. Available education materials are distributed to the children. The program is well received and the Sanitation and Engineering Departments are planning to present to a higher grade at Riley Avenue School.

In-house waste reduction, recycling and materials management education and program support is provided on an as-requested basis to local industry, businesses, schools, and community groups.

The Town's Sanitation Department is a member of the Recycling Coalition of Long Island. This coalition meets, defines and implements goals for recycling in Suffolk County. The Sanitation Department also meets with Suffolk County Legislature and the Long Island Solid Waste Leadership Council to discuss glass recycling issues and alternative disposal methods after the Brookhaven Ash Landfill is closed in 2024. The recycling flyer developed by Suffolk County graphically illustrates the proper and improper methodologies for recycling. This flyer is included in Appendix E.

3.11 Flow Control Constraints

Flow control refers to a legally authorized requirement that waste be delivered to specified facilities. There is no Town implemented or sanctioned flow control systems currently or anticipated for the planning unit.

3.12 Incentive Strategies

MSW and recyclables generated within the Town of Riverhead and delivered to an out of town disposal facility are subject to a disposal fee. Other waste items subject to disposal fees include construction & demolition debris, contaminated soils, and asbestos. Recyclable items are accepted by the Town at no fee to provide economic incentive to recycle for all waste generators, regardless of the collection methods used.

3.13 Institutional Programs for School Districts, Colleges, Hospitals, and Prisons

Recycling efforts at institutions and schools are self-selected by the waste generator. Under the local solid waste management plan, materials collected privately within the Town must be in compliance with local laws - adhering to recycling of designated recyclables and material handling guidelines for the ultimate disposal location. The manner in which the waste generator selects to meet this standard is self-determined. There is no planning unit sponsored programs specifically targeting institutions, schools, colleges, hospitals, or prisons existing currently or anticipated for the planning unit.

3.14 Industrial Recyclables Recovery Efforts and Strategies

Many industries and commercial establishments have a long history of self-marketing their recyclable and waste materials. The Town does not intervene into these activities, and these establishments are free to market their own recyclable materials and retain all the financial benefits. These direct recycling efforts represent an institutionalization of recycling activities and provide the momentum to continue significant commercial recycling during economic down times and bolstering recycling activities when economics and commodities market values are high. The Town does not require businesses to report information on quantities of recyclables managed by industrial and commercial establishments. When managed by private waste hauler, smaller commercial and institutional waste generators are aggregated within the general customer base. Regardless of the system used, the Town mandated recyclables and solid waste program guidelines are applied uniformly across the entire Town, and are applicable to industrial, commercial, and institutional generators.

3.15 Residential Recycling Program Excluded from the Collection District

Recyclable collection from residential condominiums, private community townhouse developments, cooperatives and trailer parks are not serviced in the Town's Solid Waste District and are handled by various local private commercial carters. These non-serviced residential properties typically contain commingled only and cardboard

only dumpsters or compactors to store recyclables which are placed in the rear of the residential developments. Private commercial carters collecting recyclables operate under the Town's solid water carter permitting system and must obtain a waste disposal license to perform business inside the Town.

3.16 Former MSW Landfill

3.16.a. **Landfill**

The Towns former MSW Landfill operated from 1968-1993 at which time it was closed. The landfill is located at 437 and 483 Youngs Avenue in Calverton (see Appendix F for Site Plan). The landfill's physical condition is inspected monthly by a privately contracted consultant and a report detailing findings and recommendations is submitted to the Town. A monitoring well network located in and around the landfill is sampled quarterly and the findings and recommendations reported to the Town and NYSDEC.

3.16.b. Transfer Station

When the Town's landfill was closed, the Town opened a transfer station from 1993-1996 on the landfill parcel. The Sanitation Department in conjunction with private commercial carters contracted by the Town utilized the transfer station to handle the residential and nonresidential waste streams. The Town shipped wastes to off-Island disposal facilities through waste disposal trucking contracts.

3.16.c. Landfill Gas Collection

The Town's former landfill located on Young's Avenue maintains a passive methane gas collection system through vents in the landfill cap. The system is inspected monthly. Methane gas generated from the landfill was actively used for the generation of electricity for sale to the local utility company (PSEG formerly LILCO) from 1986 to 1992. Methane gas was "harvested" from the landfill by a private company (United Energy) through a series of PVC wells connecting to mechanical vacuum compressor. This gas was then directed to a one Mega Watt (MW) reciprocating engine driven generator. Electricity produced from this generator was then sold to the local utility. Proceeds from the sale of electricity were shared between the United Energy and the Town of Riverhead as areas of the landfill became depleted of methane gas, the wells were moved to other areas of the landfill. Eventually, after all areas of the landfill became deplete of gas, the system was shut down. Current monthly testing of the now capped landfill gas vents indicates very minimal presence of gas remaining.

3.17 Beneficial Use of Solid Waste

Materials are collected from residents and disposed of by the designated end user. Therefore there is no evaluation by the Town of waste for potential beneficial use. Most recyclables are collected and reused by recycling materials such as cardboard, plastics, glass, etc.

3.18 Yard Waste

In 2003, the Town received NYSDEC Registration 52C28R for accepting and processing up to 10,000 cubic yards of yard waste annually at 437 and 483 Youngs Avenue on the south side of the road. On August 25, 2009, the Town Yard Waste Facility moved to the north side 532 Youngs Avenue and was assigned DEC Registration Number 52Y72R. The facility is located between the former Town Animal Shelter to the east and Crown Recycling to the west on approximately two acres. This facility no longer maintains a NYSDEC Registration as its annual throughput volume is less than 3,000 cubic yards (refer to Appendix G for facility layout). From 2003 to 2018 the Town reported its annual throughput to the NYSDEC based on the various types of yard waste processed.

Only clean un-bagged yard waste consisting of leaves, brush, logs, stumps, garden debris and grass is accepted at the Yard Waste Facility at 532 Youngs Avenue. Crown Recycling processes this material on site and disposes of it off site through sale as mulch. Mulch is offered to Town residents free of charge at the Yard Waste

Facility.

The Town's curbside collection for residential yard waste for 2019 is as follows:

- No grass collection;
- Residents may drop off yard waste, including grass, at the Town's yard waste facility, 532 Youngs Avenue, Calverton.
- The Town's contracted carter, European American, will collect paper-bagged, bundled and/or containers of yard waste on bulk days generally twice per month with less days monthly in the winter and more during the autumn. Yard waste disposal days are indicated on the annual recycling calendar (Appendix B). There is no limit on yard waste pickup from the curb.

Town residents may purchase annual permit stickers for dumping loose yard waste at the Town facility from the Tax Receiver's office located at Town Hall, 200 Howell Avenue. The fee for an annual permit is \$50.00. A one day pass is also available for a fee of \$15.00. Residents must bring their vehicle registration for the vehicle they intend to use in order to purchase a permit. Dump body vehicles, double axel trailers and commercial vehicles are ineligible for a permit. The facility is closed Tuesday, Wednesday and holidays, and open the remainder of the calendar week from 7:00 AM to 3:30 PM. Residents are encouraged to mulch and home compost grass clippings and other yard waste. Grass clippings are not picked up by the Town contracted private commercial carter.

3.19 Composting

The Highway Department operates a Compost Facility at 437 and 483 Youngs Ave in Calverton. The facility operated from 1997-1999 and from 2003 through the present. The facility is unregistered as of 2020 with a maximum throughput capacity of 3,000 cubic yards annually. The former NYS Registration Number for the facility is 52C28R (refer to Appendix H for facility layout). From 2003 to 2018 the Town reported its annual throughput to the NYSDEC based on the various types of yard waste processed.

Loose leaf pickup by the Highway Department is conducted each fall when residents rake their leaves to the curb and highway vacuums the leaves and delivers them to the Compost Facility. The leaves are trammeled, windrowed and turned until the material decomposes to form compost and topsoil. The compost and top soil are stored in piles at the Highway yard located at 1177 Osborne Avenue for free pickup by residents.

In addition, Highway picks up storm debris located within the Town Right of Way (ROW) and delivers it to the Compost Facility. The storm debris is placed in piles and occasionally ground up through a private contract with Crown Recycling. The chips are reused for mulching ROWs and also placed in a pile at the Highway yard for free pickup by residents.

3.20 Reuse Centers and Material Exchanges

Both the private sector and the not-for-profit community provide a multitude of locally based centers for material reuse and exchange. The County encourages the creation, use, and expansion of existing outlets, including Church sponsored community closets for clothing and housewares, and the following nonprofit organizations:

- East End Disability Associates, Inc. provides 12,497 permanent residences for developmentally disabled individuals located in communities in the eastern end of Long Island NY;
- Aid to the Developmentally Disabled Inc. provides the optimum level of quality rehabilitation services to all individuals living within its residential program;
- Harvest End Inc. elevates the profile of the Long Island wine region and raises funds for charities that
 are regional in scope, benefitting people, land, and the environment across the east end of Long Island;
- Cornell Cooperative Extension is an educational agency assisting local residents and businesses to develop leadership skills and solve their environmental, economic, community and family problems through the application of research-based information;

- Open Arms Care Center Inc. is a food pantry providing free food to needy people in the Riverhead area;
- The Salvation Army provides resale of second hand and used merchandise and used clothing.
- The Timothy Hill Children's Ranch at 296 Middle Road in Riverhead. Timothy Hill provides residential programs on the Long Island, NY campus consisting of 8 homes and 2 horse farms across 86 acres that serve as a safe haven for at-risk children and young people age 11-24. These individuals often struggle with issues of abuse, neglect, homelessness, addiction, or alternative to incarceration. The programs focus on education, vocational training, life coaching and spiritual guidance set in an equestrian, adventure-based setting with the goal of transforming lives. Trained professional staff teach them how to become productive citizens through career counseling, caseworker & caretaker support and creating a plan for transitioning back into the community. The Ranch operates a Thrift Shop selling donated goods including clothing and household products to the general public with profits being used by Timothy Hill operations.

Reuse centers are most valuable when they are located near population centers and when dry, clean, and secure holding areas for the products can be provided to ensure that these items are in usable condition prior to donating. Having several centers located throughout the community enhances access for community members. The Town recommends the continued support of these existing venues for material reuse.

Commercial firms, industrial enterprises, and other commercial entities in the Town vary widely in recycling practices from business to business. Businesses commonly hire a private hauler to transport waste and recyclables to local out of Town recycling centers.

3.21 Intermediate Processing of Recyclables

The Town exclusively processes its residential recyclables through collection by the Towns contracted carter. The carter in turn delivers paper and cardboard to Great Northern Fibers in West Babylon, NY, and cans and bottles to the Town of Islip.

3.22 Markets for Recovered Recyclables, Market Assistance, and Future Market Development

The sale of recyclables continues to be controlled by the high volatility, low value, commodities marketplace. Accordingly, markets are reviewed continually for changes in market acceptance standards and pricing. Dynamic market review provides for maximum recovery of materials and minimal land burial. Cessation of a market, either temporarily or permanently can cause tremendous complications to a program. To protect against this, at least two markets are utilized whenever possible, and has proven to be more reliable and financially beneficial for the Town, allowing for multiple vendors and to take advantage of swings in the marketplace, both positive and negative. Market assistance is provided by statewide trade associations, in particular the New York State Association for Reduction, Reuse, and Recycling regional networking efforts among members. Market expansion since the original solid waste management plan of 1990 has been strong until the last year. Markets of today are less reliable and are a losing venture, providing little economic benefit for recycling communities. With the strict tariffs in China limiting recycling options the market has slowed considerably and is actually costing the carter and Town for processing.

3.23 Stop Throwing Out Pollutants Day

STOP Day began in 1985 and is still in operation today. STOP Days are held twice annually, one in May/June and the other in October. STOP Days take place in the Highway Department yard at 1177 Obsborn Ave. in Riverhead. During STOP Day, used household hazardous waste products from residents is collected and hauled away by a licensed hauler and disposed of at several facilities depending on the type of waste (see Appendix I for Town of Riverhead 2020 STOP Days Flyer). Disposal methods include reuse, landfilling and incineration. Vehicles transporting regulated waste for STOP Day, including tires and HHW, must be permitted annually per 6 NYCRR Part 364.

CHAPTER 4 - ADMINISTRATION, LAWS AND REGULATIONS, AND FINANCIAL STRUCTURES

4.1 Enforcement of Local Laws Addressing Solid Waste and Recycling

Zoning changes in 2005 (Town Code 235-5; Hazardous Materials; Waste Disposal Sites) state, "The construction and operation of waste disposal centers to store, collect or dispose of by-product materials shall be prohibited from all zoning districts within the Town of Riverhead." There are no known local laws, rules, regulations, or ordinances that could cause potential constraints to recyclables recovery within the Town. Laws are in place that either directly mandate or indirectly encourage recyclables recovery within the Town. These laws are defined in Chapter 273 Solid Waste of the Town Code. This revised ordinance was amended by the Town in June 2012 and states, "The purpose of this chapter is to protect and promote the health, safety and welfare of the residents of the Town of Riverhead by controlling the storage and disposal of solid waste generated within the Town in the most economical and environmentally acceptable manner; provide for the orderly collection of solid waste; implement the Town of Riverhead Solid Waste Management Plan; comply with the requirements and further the purposes of the New York State Solid Waste Management Act; and to protect the drinking water supply in the Town of Riverhead. In addition, the Town Board finds that increased efforts to recover and reuse recyclable materials will protect and enhance the Town's physical environment and promote the health and safety of persons and property within the Town. The provisions set forth herein seek not only to facilitate the implementation and operation of an environmentally sound solid waste management program and conservation of natural resources but to promote the recovery of materials from the Town's solid waste stream for the purpose of recycling such materials by source separation. Accordingly, the Town Board finds it is necessary to expand the Town's recycling program to provide opportunities for nonresidential, commercial, industrial and institutional establishments to recycle. Nothing herein is intended or should be construed to modify or amend any terms or conditions of any contracts for solid waste services to which the Town of Riverhead is a party in effect on the effective date of this chapter." The major components of this local ordinance that either mandate or encourage recycling are summarized as follows:

Article I General Provisions

- § 273-1 Title.
- § 273-2 Purpose; findings; construal of provisions.
- § 273-3 Definitions.

Article II Solid Waste Generated at Residences Located Within Solid Waste District

- § 273-4 Establishment of district.
- § 273-5 Container requirements.
- § 273-6 Times for placement and collection; removal; storage.
- § 273-7 Collection of seasonal or special items.
- § 273-8 Source separation of recyclable materials.

Article III Solid Waste Generated at Commercial and Institutional Operations within Town

- § 273-9 Container requirements.
- § 273-10 Source separation requirements.

Article IV License Requirement for Collectors of Solid Waste Generated at Commercial and Institutional Operations

- § 273-11 Authorized collectors; licensing requirements.
- § 273-12 Enforcement; penalties for offenses.

Article V General Provisions Applicable to Solid Waste for All Properties and Uses

- § 273-13 Accumulation of solid waste; responsibility of owner and occupant.
- § 273-14 Collection of recyclable materials placed at curb line or pavement line. [1]
- § 273-15 Burning.
- § 273-16 Deposit on public or private property.
- § 273-17 Applicability.

The Town's current procedure for enforcing Town Code for Sanitation is as follows:

- Code violation by a resident;
- The violation is reported to the Sanitation Department either by the Town's contracted carter or by another resident.
- The notification is forwarded to the Code Enforcement Department where information is compiled regarding the violation;
- A Notice of Complaint is generated and mailed to the alleged violator outlining the details of the complaint along with a Sanitation Brochure and a current Collection Schedule.
- The Notice of Compliant allows the alleged violator 5 days to respond.
- If contacted by the alleged violator, Code Enforcement will determine the next steps, i.e. enforcement or compliance.
- If Code Enforcement is not contacted by the alleged violator within 5 days, the case is assigned to a Code Enforcement Officer for further investigation;
- If determined by the investigation, a court appearance ticket is typically issued.
- The case then proceeds to Justice Court and is subject to fines and dispositions at the Court's and Town Attorney's agreement and discretion.

4.2 State and Other Laws Addressing Solid Waste and Recycling

The NYCRR Part 360 regulations, administered by the NYSDEC, specifically address the management of solid waste and provide the regulatory framework within which the Town's solid waste program is administered. These regulations apply statewide and govern a broad array of waste streams and management methods ranging from MSW landfills to transfer stations, recycling facilities, composting operations, management of construction and demolition debris, wood waste, and fill material, and include permitting requirements for waste transport. Administered statewide, the NYS regulations establish baseline performance standards that must meet or exceed sound environmental protections in the management of solid waste. The State regulations require the Town to develop a solid waste management roadmap that this DLSWMP addresses and further regulates town solid waste facilities.

4.3 Local Laws or Ordinances That Must Be Adopted

This plan recommends developing a commercial waste and recycling district at the EPCAL Development Zone and in the downtown commercial area. A Town commercial solid waste district would stabilize disposal prices, reduce traffic and provide recycling services to all the tenants. The plan recommends assigning a full time code enforcement office to investigate sanitation violations, including unlicensed carters which are operating within the Town. Town code requires the private sector to provide recycling pickup.

4.4 Commercial Haulers and Flow Control

The financial revenues necessary for the solid waste program are provided primarily by a dedicated Sanitation tax. The solid waste program has been structured around providing services strictly limited to the Town of Riverhead generated waste streams. The absence of tipping fees protects the Town and its residents from the market fluctuations present in the solid waste disposal industry.

Private carters working within the Town are required to obtain an annual permit from the Sanitation Department. These carters are registered in the Sanitation Department database. A condition of registration is for private carters to report solid waste volumes collected quarterly.

4.5 Administrative Structure

The Town Sanitation Department has the necessary administrative structure in place to implement the Local Solid Waste Management Plan.

The Sanitation Department is overseen by the Superintendent of Sanitation. Ultimately, the Sanitation Department is governed by the Town Board and Town Supervisor. It is the responsibility of the Town Board to make

policy and to formally adopt and/or approve major policy decisions. Board resolutions are used to authorize the Sanitation Department to take necessary actions to implement Board specified policies, including making the appropriate management decisions, and allocating resources of personnel, equipment, and funding to implement the Local Solid Waste Management Plan.

4.6 Staffing and Organizational Structure

The Solid Waste Administration and Staffing Chart (see figure next page).

4.7 Neighboring Jurisdictions and Financial Considerations

The Sanitation Department provides centralized services for the Town. Additionally, Sanitation provides transportation, recycling, disposal, and regulatory support services for the Town through their private carter and through Town trucks delivering solid waste from Town facilities to Peconic Recycling and Transfer Center.

The Town's private carter delivers paper and cardboard to Great Northern Fibers in West Babylon, NY. Plastic, glass and tin are delivered to the Town of Islip Transfer Station. The remainder of the solid waste is delivered to the Town of Brookhaven's Landfill located in Brookhaven, NY. As noted earlier, the financial revenues necessary for the solid waste program are provided primarily by a dedicated Sanitation tax.

4.8 Anticipated Changes to the Local Planning Unit

The planning unit is dedicated to Town of Riverhead residents and businesses. There are no plans to expand membership or otherwise merge the solid waste activities with other surrounding communities. Solid waste services will be designed for Town of Riverhead capacity.

4.9 Anticipated Changes to the Waste Stream in the Local Planning Unit

Dramatic changes in the waste stream within the local planning unit are not anticipated for this 10 year planning period. Incremental changes are anticipated following the new updating of NYS solid waste regulations and continued changes in product packaging for post-consumer wastes as a reflection of generally available consumer goods. Should there be a significant increase or loss of industry, any associated impacts to the solid waste program will be addressed in subsequent solid waste planning updates. Detailed waste projections and characterizations are provided in Chapter 2 - WASTE GENERATION & MATERIALS RECOVERY DATA AND PROJECTIONS.

4.10 Costs for Town of Riverhead Municipal Solid Waste Program

The Town's solid waste management program is subsidized by a Sanitation Tax for curbside solid waste collection and by the Town's General Fund through taxes for landfill closure and post-closure costs. The 2021 Sanitation Tax is based on the following payment schedule for residential use:

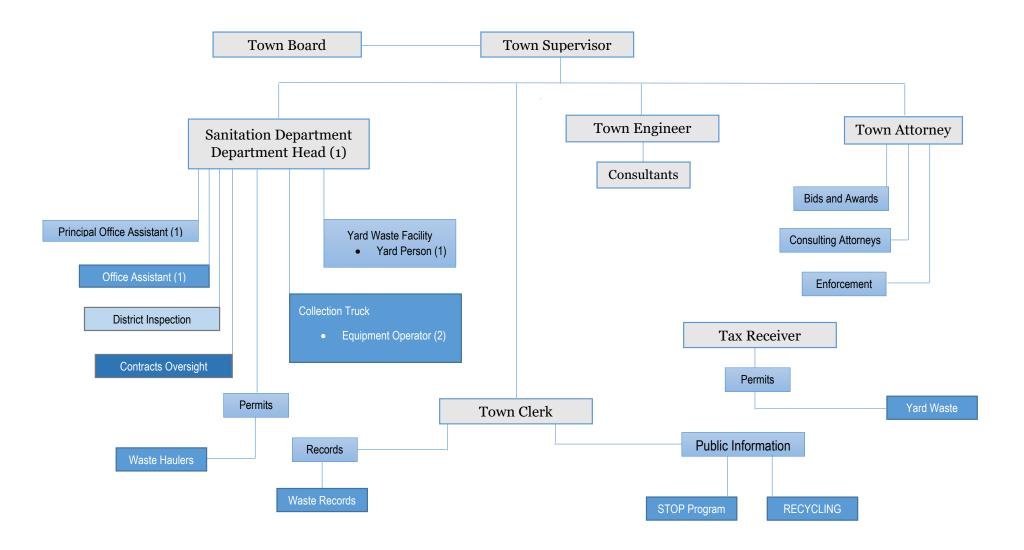
\$367.00 – Single Family \$550.50 – Two Family \$734.00 – Three Family \$917.50 – Multi-Family

The Sanitation Tax includes costs for recycling. The annual cost of the solid waste management program is approximately \$4.2 million. The Town's STOP program is financed by NYS grants.

The planning unit also researches opportunities to utilize capital investment grants along with recycling program and outreach grants to help fund the program. These grants typically award a 50% reimbursement but funding can prove to be limited.

Appendix J shows the costs for all solid waste management facilities and programs operated or administered by the Town of Riverhead including capital investments, insurance, operation, maintenance, closure and post-closure costs, administration and financing.

Solid Waste Management Administration and Staff



CHAPTER 5 - INTEGRATED SYSTEM SELECTION

The Town's solid waste program is fully integrated, currently utilizing multiple approaches to solid waste management, including curbside collection of MSW and recyclable materials, electronics recycling, STOP events (includes car, marine and rechargeable battery recycling), scrap metal recycling, C&D recycling and yard waste reuse. While upgrades to the existing technology are necessary for maintenance and to provide increased capacity and material handling improvements, no significant technology changes from existing approaches are anticipated during the planning period. The Town anticipates continuing the current integrated, multi-disciplinary approach to solid waste services.

5.1 Identify the Integrated Solid Waste Management System Selected

The program selected for this DLSWMP is a continuation of the current integrated system, with programmatic enhancements necessary to insure long term, reliable, solid waste services. First, the Town will continue to emphasize reuse, reduction, and waste toxicity reduction efforts; followed by recycling and composting programs. The remainder of the waste stream will be disposed of using the current system of disposal.

Maintenance of the yard waste facility is recognized as a long term need that will continue during the 10 year window of the current planning period. Monitoring the yard waste facility's performance and condition will be ongoing as needed to recognize in advance of the need for significant repair or improvements or potentially exceeding NYSDEC operating volume permit limits.

Recycling of multiple materials will continue and be enhanced to capture greater volumes of materials from the disposal side of solid waste stream. Capture and diversion of hazardous and semi-hazardous materials will continue in a manner that is environmentally beneficial and also provides needed services to our citizens, such as Conditionally Exempt Small quantity generator (CESQG) wastes, household hazardous waste collection (STOP Day), and pharmaceutical drop-off (at Police Department and STOP Day).

5.2 Justification of Service Selection

The Town will continue to pursue the integrated system described herein because it has a proven track record of success, is well received and utilized by our customers, environmentally responsible, cost competitive, and a long term reliable approach.

5.3 Size/Capacity of Operation

The size and capacity of our recycling and MSW program currently service the needs of the planning unit's service community. The Town of Brookhaven Landfill will close in 2024. Finding an alternate MSW disposal location will be necessary to insure the long term goals of the solid waste program are met for continued comprehensive and reliable waste management services.

5.4 Equipment for Program Implementation

The equipment necessary for the continued fulfillment of the solid waste management plan goals is currently owned by the carter. Equipment is regularly maintained by the contracted carter's staff, evaluated for replacement, and replaced as needed. New equipment is purchased as the need demands and/or as program changes necessitate. Additional equipment needs will be evaluated as program changes demands.

5.5 - Alternatives Analysis Tables

5.5 Alternatives Analysis rables

5.5.a

MSW

WASTE REDUCTION PROGRAMS

SUMMARY OF STATUS & RECOMMENDATION

- GLASS REDUCTION Reduce the volume of glass in the MSW stream through promotion of bottle redemption and recycling.
- FILM PLASTIC REDUCTION Encourage agricultural practices that minimize use of film plastic which are difficult to recover, and encourage residential use of store based bag recycling that have more direct marketing agreements.

1) CRITERIA OF EVALUATION ADMINISTRATIVE/TECHNICAL IMPACTS

<u>1i) Waste Stream Impact - Quantitative/Qualitative</u> - Additional MSW waste reduction efforts are expected to reduce MSW volumes by 5%. Inform local wineries and breweries of the benefits to the public through bottle redemption and recycling. Through an informational campaign encourage reduction of film plastic by the agricultural community and reuse of store bags by the public.

<u>1ii) Appropriate Type & Size of Facilities or Program</u> - Not size restricted, no infrastructure required by Town. Infrastructure requirements will be specific to individual waste generator. Analysis of commercial/industrial waste reduction cost is beyond the scope of this DLSWMP.

<u>1iii) Cost & Lifecycle Analysis</u> - Waste reduction efforts are expected to add no measurable cost to the residential waste generator. Commercial/industrial waste reduction programs for non-MSW will have varying costs specific to the individual generator and waste material of concern. Analysis of commercial/industrial waste reduction cost analysis is beyond the scope of this DLSWMP.

<u>1iv) Impact to Natural Resource Conservation, Energy Production, and Jobs</u> - MSW reduction is generally expected to provide for natural resource conservation. Energy production and job creation is not anticipated through this activity.

2) JURISDICTIONAL IMPACTS ON NEIGHBORING PLANNING UNITS, AND ENVIRONMENTAL JUSTICE WITHIN RIVERHEAD TOWN

2i) Assessment of Participation Interest Potential by Neighboring Planning Units -potential for participation by neighboring Planning Units is believed to focus on common messaging where common waste reduction program guidelines exist.

<u>2ii)</u> Assessment of Alternatives That Might be Available if Other Planning Units Participate - activities are not dependent upon participation of other Planning Units.

2iii) Comments Received by Neighboring Planning Units - none at this time.

<u>2iv)</u> Assessment of Environmental Justice Within the Town of Riverhead - there is no known or expected environmental justice impact within the Town associated with waste reduction efforts and activities.

ALTERNATIVE SELECTION STATUS

1) ALTERNATIVE CHOSEN & WHY - see above

2) EXPECTED QUANTITATIVE & QUALITATIVE IMPACTS ON -

Waste Reduction - actions expected to reduce select waste volumes by 5%

Reuse - actions expected to enhance reuse <5%

 $\underline{\text{Materials Recovery}} \text{ - actions expected to improve material recovery of select waste materials by $<5\%$ \\ \underline{\text{Participation in Recovery Opportunities}} \text{ - actions expected to enhance participation } <5\% \\ \underline{\text{Note: Additional recovery operation of the participation of the participation }}$

Product Stewardship - Not Applicable

Economic, administrative or partnership benefits - actions expected to reduce direct expenses by <5%.

3) IDENTIFICATION OF ADMINISTRATIVE, CONTRACTUAL, AND FINANCIAL REQUIREMENTS FOR IMPLEMENTATION — With the exception of hiring a Recycling Coordinator, existing administrative and financial structure is sufficient to support ongoing and proposed waste reduction activities.

4) IDENTIFICATION OF NEW OR MODIFICATION TO LOCAL LAWS, ORDINANCES OR REGULATIONS TO IMPLEMENT PROGRAMS - no new local laws, ordinances, or regulations identified as necessary at this time. Work cooperatively with local officials to insure that these laws and policies do not interfere with waste reduction efforts.

5.5.b DEVELOPMENT AND IMPLEMENTATION OF REUSE PROGRAMS	SUMMARY OF STATUS & RECOMMENDATION PUBLIC/PRIVATE PARTNERSHIP - Continue support of for common household goods, clothing, food stuffs, OVERSIGHT OF LOCAL LAWS - work to insure that To	, , , , , , , , , , , , , , , , , , , ,
CRITERIA OF EVALUATION		ALTERNATIVE SELECTION STATUS

1) ADMINISTRATIVE/TECHNICAL IMPACTS

<u>1i) Waste Stream Impact - Quantitative/Qualitative</u> - MSW generation rate is currently estimated at 5.15 lbs/person/day which is the same as the state average. Additional MSW reuse efforts are expected to reduce MSW waste volumes by 5%. Form partnerships with private entities which distribute consumer based products for reuse.

<u>1ii) Appropriate Type & Size of Facilities or Program</u> - Not size restricted, no infrastructure required by Town. Infrastructure requirements will be specific to individual waste generator. Analysis of commercial/industrial waste reuse cost analysis is beyond the scope of this DLSWMP.

<u>1iii) Cost & Lifecycle Analysis</u> - Product reuse activities are expected to add no measurable cost to the waste generator. Commercial/industrial waste reuse programs for non-MSW will have varying costs specific to the individual generator and waste material of concern. Analysis of commercial/industrial waste reuse cost analysis is beyond the scope of this DLSWMP.

<u>1iv</u>) Impact to Natural Resource Conservation, Energy Production, and Jobs - MSW reuse is generally expected to provide for natural resource conservation. Measurable energy production and /or job creation are not anticipated through this activity.

2) JURISDICTIONAL IMPACTS ON NEIGHBORING PLANNING UNITS, AND ENVIRONMENTAL JUSTICE WITHIN THE TOWN OF RIVERHEAD

<u>2i) Assessment of Participation Interest Potential by Neighboring Planning Units</u> - potential for participation by neighboring Planning Units is believed to focus on common messaging where common reuse program guidelines exist.

<u>2ii)</u> Assessment of Alternatives That Might be Available if Other Planning Units Participate - activities are not dependent upon participation of other Planning Units.

2iii) Comments Received by Neighboring Planning Units - none at this time.

<u>2iv)</u> <u>Assessment of Environmental Justice Within the Town of Riverhead</u> - there is no known or expected environmental justice impact within the Town associated with waste reuse efforts and activities.

1) ALTERNATIVE CHOSEN & WHY - see above

2) EXPECTED QUANTITATIVE & QUALITATIVE IMPACTS ON -

Waste Reduction - actions expected to reduce waste volumes by <5%

Reuse - actions expected to enhance reuse by5%

Materials Recovery - actions expected to enhance materials recovery <5%

<u>Participation in Recovery Opportunities</u> - actions expected to enhance participation <5% Product Stewardship - Not Applicable.

<u>Economic, administrative or partnership benefits</u> - actions expected to reduce direct expenses by <5%. Partnership benefits expected to reduce waste of consumer products by 5%.

3) IDENTIFICATION OF ADMINISTRATIVE, CONTRACTUAL, AND FINANCIAL REQUIREMENTS FOR IMPLEMENTATION — With the exception of hiring a Recycling Coordinator, existing administrative, and financial structure is sufficient to support ongoing and proposed waste reuse activities. The Town will form partnerships with private entities which distribute consumer based products for reuse.

4) IDENTIFICATION OF NEW OR MODIFICATION TO LOCAL LAWS, ORDINANCES OR REGULATIONS TO IMPLEMENT PROGRAMS - no new local laws, ordinances, or regulations are identified as necessary at this time. In support of locally based reuse centers, work cooperatively with Town officials to ensure that local laws and policies do not interfere with waste reuse efforts.

5.5.c

RECYCLABLES RECOVERY PROGRAMS FOR PAPER, METAL, GLASS, TIN AND PLASTIC

SUMMARY OF STATUS & RECOMMENDATION

- PLASTICS, TIN, METAL AND GLASS RECYCLING- Continue existing efforts for recovery of consumer containers.
- ▶ OVERSIGHT OF LOCAL LAWS work to ensure that local laws and policies do not interfere with recycling efforts.

CRITERIA OF EVALUATION

1) ADMINISTRATIVE/TECHNICAL IMPACTS

<u>1i) Waste Stream Impact - Quantitative/Qualitative</u> - Recycling efforts for common curbside items are expected to divert MSW volumes by at least 10% over the 10 year planning window of the DLSWMP. The Town plans to complete an Inter-Municipal Agreement (IMA) with the Town of Islip and its recycling facility. This measure is expected to significantly increase recycling efforts and the diverted quantity. The Town will investigate partnering with local breweries and wineries to assist in glass recycling.

<u>1ii)</u> Appropriate Type & Size of Facilities or Program – Recyclables collected at curbside are transported by the Town's contracted carter to out of Town facilities for processing. This will continue with Islip when the IMA is complete.

<u>1iii) Cost & Lifecycle Analysis</u> - Recycling activities are expected to add no measurable cost to the waste generator. Commercial/industrial waste recycling programs for non-MSW wastes will have varying costs specific to the individual generator and waste material of concern. Analysis of commercial/industrial waste recycling cost analysis is beyond the scope of this DLSWMP. Operation costs for the Towns recycling program are not expected to rise significantly and will be readily covered through current budget projections.

<u>1iv) Impact to Natural Resource Conservation, Energy Production, and Jobs</u> - MSW recycling is generally expected to provide for natural resource conservation. Measurable energy production benefits are not anticipated through this activity. Jobs that currently exist in the operation of the Town's MSW program are expected to remain constant during the 10 year planning window. The Town plans to hire a Recycling Coordinator to assist in recycling efforts.

2) JURISDICTIONAL IMPACTS ON NEIGHBORING PLANNING UNITS, AND ENVIRONMENTAL JUSTICE WITHIN THE TOWN OF RIVERHEAD

<u>2i) Assessment of Participation Interest Potential by Neighboring Planning Units</u> - potential for participation by neighboring Planning Units is believed to focus on common messaging where common recycling program guidelines exist.

<u>2ii)</u> <u>Assessment of Alternatives That Might be Available if Other Planning Units Participate</u> - activities are not dependent upon participation of other Planning Units.

2iii) Comments Received by Neighboring Planning Units - none at this time.

<u>2iv)</u> <u>Assessment of Environmental Justice Within The Town of Riverhead</u> - there is no known or expected environmental justice impact within the Town associated with waste recycling efforts and activities.

<u>ALTERNATIVE</u> <u>SELECTION</u> <u>STATUS 1) ALTERNATIVE CHOSEN & WHY</u> - The Town of Riverhead will reach out to the many breweries and wineries that exist in the Town as these would be good opportunities to market clean glass.

2) EXPECTED QUANTITATIVE & QUALITATIVE IMPACTS ON -

Waste Reduction - actions expected to reduce waste volumes by <5%

Reuse - actions expected to enhance reuse <5%

<u>Materials Recovery</u> - expected to enhance materials recovery ≥10% during planning period

Participation in Recovery Opportunities - actions expected to enhance participation >10%

<u>Product Stewardship</u> – Not Applicable.

<u>Economic, administrative or partnership benefits</u> - actions expected to reduce direct expenses by <5%. The Town will investigate partnering with local vineyards and breweries to assist in recycling glass.

3) IDENTIFICATION OF ADMINISTRATIVE, CONTRACTUAL, AND FINANCIAL REQUIREMENTS FOR

IMPLEMENTATION - existing administrative and financial structure is sufficient to support ongoing and proposed waste recycling activities. The Town plans to complete an IMA with the Town of Islip to partner in recycling activities. The Town plans to hire a Recycling Coordinator once this DSWMP has been approved. The Town will investigate partnering with local wineries and breweries to assist in recycling glass.

4) IDENTIFICATION OF NEW OR MODIFICATION TO LOCAL LAWS, ORDINANCES OR REGULATIONS TO

IMPLEMENT PROGRAMS - no new local laws, ordinances, or regulations identified as necessary at this time. In support of the Town's MSW Program, work cooperatively with local officials to ensure that laws and policies do not interfere with recycling activities.

5.5.d

ORGANICS RECOVERY PROGRAMS FOR FOOD SCRAPS, YARD TRIMMINGS, AND BIOSOLIDS

SUMMARY OF STATUS & RECOMMENDATION

- COMPOST FACILITY Continued operation & maintenance of Town owned and operated composting facility. Operations include ongoing maintenance and capital repairs to retain facility capacity and reliability as well as storm debris management. Operations are carried out by the Highway Department.
- YARD WASTE FACILITY Maintain equipment and site capacity for grinding and chipping woody debris grinding and trommeling leaves.
- BIOSOLIDS REDUCTION The Town is not involved in a biosolids reduction program.
- FOOD SCRAPS REDUCTION The Town is planning to implement a pilot program for food scraps recovery pending operation of a proposed American Organic Energy anaerobic digester to be located on Long Island Compost property in Yaphank, NY.

CRITERIA OF EVALUATION

1) ADMINISTRATIVE/TECHNICAL IMPACTS

1i) Waste Stream Impact - Quantitative/Qualitative — The Town of Riverhead's solid waste program does not have a biosolids diversion program. The Town is planning to implement a pilot plan for food scraps recovery. American Organic Energy will be operating a proposed 180,000 tons/year anaerobic digester for food waste to be located on Long Island Compost property in Yaphank. Ground breaking was supposed to take place almost two years earlier. Materials recovery is expected to divert food scraps by 30%.
1ii) Appropriate Type & Size of Facilities or Program - Compost facility and yard waste facility already exists in support of processing and giving away compost to the public. The AOE facility will accept food scrap waste predominantly from Nassau and Suffolk Counties.

- 1iii) Cost & Lifecycle Analysis The Town's composting and yard waste facilities have been operational for over 10 years and are not expected to measurably impact cost to consumers. Facility maintenance and capital replacement are minimal. The food scraps recovery program will remove 180,000 tons of food scraps from the waste stream annually. In addition, the technology will result in:
 - Heat for homes and businesses via a natural gas pipeline
 - Nutrient management alternatives
 - Power for engines
 - Soil improvement methodologies such as fertilizers
 - Fuel for alternative-fuel vehicles
 - Methane emissions reductions
 - Electricity
 - Diversion of organic wastes
 - Building materials such as fiberboard, or even flower pots
 - Sustainability Because of increasing population trends on Long Island the facility will be sustainable indefinitely.
 - Creation of jobs both for the facility as well as for the collection industry which must increase its manpower and equipment to accommodate the food scraps collection.

<u>1iv) Impact to Natural Resource Conservation, Energy Production, and Jobs</u> – Yard waste management and composting is generally expected to provide for natural resource conservation. Measurable energy production is <5%. Jobs that currently exist in the operation of the yard waste and compost facilities are expected to remain constant during the 10 year planning window. The AOE facility will serve Long Island and the Greater New York Metropolitan area and will create many local permanent jobs, provide methane gas for heat, and provide electricity for the grid upon opening.

2) JURISDICTIONAL IMPACTS ON NEIGHBORING PLANNING UNITS, AND ENVIRONMENTAL JUSTICE WITHIN THE TOWN OF RIVERHEAD

2i) Assessment of Participation Interest Potential by Neighboring Planning Units - potential for participation by neighboring Planning Units is limited by yard waste and compost facility capacity, with no net

ALTERNATIVE SELECTION STATUS

1) ALTERNATIVE CHOSEN & WHY - see above

2) EXPECTED QUANTITATIVE & QUALITATIVE IMPACTS ON -

3)

Waste Reduction - actions expected to reduce waste volumes by <5%

<u>Reuse</u> - actions expected to enhance reuse <5% from current levels.

Materials Recovery - actions expected to enhance waste reuse by 30% from current levels.

<u>Participation in Recovery Opportunities</u> - actions expected to enhance participation 100% because the Town currently has no food scraps recovery program.

Product Stewardship – Not Applicable.

Economic, administrative or partnership benefits - actions expected to reduce direct expenses by <5%.

- 4) <u>IDENTIFICATION OF ADMINISTRATIVE</u>, <u>CONTRACTUAL</u>, <u>AND FINANCIAL REQUIREMENTS FOR IMPLEMENTATION</u> existing administrative, contractual, and financial structure is sufficient to support ongoing and proposed waste reduction activities.
- 5) IDENTIFICATION OF NEW OR MODIFICATION TO LOCAL LAWS, ORDINANCES OR REGULATIONS TO IMPLEMENT PROGRAMS The pilot program will modify the rules for the MSW program in regard to individual residential collection of food scraps.

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excess capacity anticipated for the 10 year planning period.	
2ii) Assessment of Alternatives That Might be Available if Other Planning Units Participate -	
Participation of other Planning Units will increase the production and public benefits from the AOE facility.	
<u>2iii) Comments Received by Neighboring Planning Units</u> - none at this time.	
<u>2iv)</u> Assessment of Environmental Justice Within the Town of Riverhead - there is no known or expected	
environmental justice impact within the Town associated with yard waste management or composting efforts	
and activities.	

5.5.e

PROGRAMS TO DEVELOP OR IMPROVE LOCAL AND REGIONAL MARKETS FOR RECYCLABLES

SUMMARY OF STATUS & RECOMMENDATION

- Continue collaboration with the Community Development Department and Planning Department in support of locally based market development.
- Continue work with local officials to ensure that local laws and policies do not unduly interfere with market development activities.
- The Town will contact local farms which compost on-site to ensure compliance with NYSDEC regulations and optimization of compost space.
- ▶ The Town will add building supply reuse as a recommendation on all site plan applications.
- Efforts are on-going to expand local compost markets in distribution, palletization, and year round compost product utilization.
- ► The Town will partner with the Town of Islip for recycling glass, tin and plastic.
- The Town will partner with private businesses which distribute consumer products to be reused.
- The Town will investigate partnering with local breweries and wineries to assist in glass recycling.

CRITERIA OF EVALUATION

1) ADMINISTRATIVE/TECHNICAL IMPACTS

1i) Waste Stream Impact - Quantitative/Qualitative - Local market development is expected to result in increased opportunities for and support of recycling efforts. The Town will partner with the Town of Islip for recycling glass, tin and plastic. The Town will partner with private businesses which distribute consumer products to be reused. The Town will investigate partnering with local breweries and wineries to assist in glass recycling. The Town will contact local farms which compost and educate them on recycling regulations. Expand local compost markets in distribution, palletization, and year round compost product utilization. The Town will place a recommendation on each site plan application to reuse materials and partner with private businesses which distribute consumer products to be reused. A Recycling Coordinator will be hired to assist with developing regional markets.

<u>1ii) Appropriate Type & Size of Facilities or Program</u> - Not size restricted, no infrastructure required by Town.

<u>1iii) Cost & Lifecycle Analysis</u> - Administrative cost is currently imbedded in program budget with no additional technical impacts known or anticipated. The Town plans to hire a Recycling Coordinator to assist with marketing efforts. Cost and lifecycle analysis of commercial/industrial local market development are beyond the scope of the DLSWMP.

<u>1iv) Impact to Natural Resource Conservation, Energy Production, and Jobs</u> - Market development and enhancement is generally expected to provide for natural resource conservation and job opportunities. Resource and employment impacts of commercial/industrial local market development are beyond the scope of the DLSWMP.

2) JURISDICTIONAL IMPACTS ON NEIGHBORING PLANNING UNITS, AND ENVIRONMENTAL JUSTICE WITHIN THE TOWN OF RIVERHEAD

2i) Assessment of Participation Interest Potential by Neighboring Planning Units - The Town will investigate the need and desire of neighboring planning units to begin and/or grow recycling markets.

<u>2ii)</u> Assessment of Alternatives That Might be Available if Other Planning Units Participate - activities are not dependent upon participation of other Planning Units.

2iii) Comments Received by Neighboring Planning Units - none at this time.

<u>2iv</u>) Assessment of Environmental Justice Within the Town of Riverhead - at this time there is no known or expected environmental justice impact within the Town associated with market development activities.

ALTERNATIVE SELECTION STATUS

1) ALTERNATIVE CHOSEN & WHY - local market development has the potential to divert material from the waste stream and as such is supported by the cooperative actions of the Town's Sanitation Department, Planning Department, and the Community Development Department, in addition to appropriate state and federal agencies. This alternative's action will focus on continuing those cooperative efforts. Partnering with other Towns, breweries and wineries will also greatly assist in regional market development.

2) EXPECTED QUANTITATIVE & QUALITATIVE IMPACTS ON - material diversion impacts are inherently dependent upon materials targeted for recovery and market success. With the exception of scrap metal, there are no known new locally based markets for recyclables at this time. Accordingly, quantitative and qualitative impacts are not predictable.

Waste Reduction - Impacts are not predictable.

Reuse - Impacts are not predictable.

Materials Recovery - Impacts are not predictable.

Participation in Recovery Opportunities - Impacts are not predictable.

Product Stewardship – Not applicable.

Economic, administrative or partnership benefits - Impacts are not predictable.

3) IDENTIFICATION OF ADMINISTRATIVE, CONTRACTUAL, AND FINANCIAL REQUIREMENTS FOR IMPLEMENTATION - existing administrative, contractual, and financial structure is sufficient to support ongoing and proposed waste reduction activities. Adding the cost of a Recycling Coordinator. Attempting to partner with other municipalities and local businesses.

4) IDENTIFICATION OF NEW OR MODIFICATION TO LOCAL LAWS, ORDINANCES OR REGULATIONS TO IMPLEMENT PROGRAMS - no new local laws, ordinances, or regulations identified as necessary at this time.

SWMP 2020 to 2029.wpd

5.5.f ENFORCEMENT PROGRAMS

SUMMARY OF STATUS & RECOMMENDATION

▶ Continue enforcement of existing local laws and local carter permit system.

CRITERIA OF EVALUATION

1) ADMINISTRATIVE/TECHNICAL IMPACTS

<u>1i) Waste Stream Impact - Quantitative/Qualitative</u> - Enforcement actions are generally expected to reduce the quantity of waste directed for disposal, and increase quantities of recoverable material streams.

<u>1ii) Appropriate Type & Size of Facilities or Program</u> - Not size restricted, no infrastructure required by Town.

<u>1iii)</u> Cost & Lifecycle Analysis - Enforcement of solid waste program rules for curbside pickup are costs currently imbedded in program budget with no additional administrative or technical impacts known or anticipated.

<u>1iv)</u> Impact to Natural Resource Conservation, Energy Production, and Jobs - Enforcement actions are generally believed to have positive impacts on natural resource conservation, energy production, and jobs.

2) JURISDICTIONAL IMPACTS ON NEIGHBORING PLANNING UNITS, AND ENVIRONMENTAL JUSTICE WITHIN THE TOWN OF RIVERHEAD

2i) Assessment of Participation Interest Potential by Neighboring Planning Units - activities are not dependent upon participation of other Planning Units.

<u>2ii)</u> Assessment of Alternatives That Might be Available if Other Planning Units Participate - activities are not dependent upon participation of other Planning Units.

2iii) Comments Received by Neighboring Planning Units - none at this time.

<u>2iv)</u> Assessment of Environmental Justice Within the Town of Riverhead - at this time there is no known or expected environmental justice impact within the Town associated with market development activities.

ALTERNATIVE SELECTION STATUS

1) ALTERNATIVE CHOSEN & WHY - see above

2) EXPECTED QUANTITATIVE & QUALITATIVE IMPACTS ON -

Waste Reduction - actions expected to reduce waste volumes by <5%

Reuse - actions expected to enhance reuse <5%

Materials Recovery - actions expected to enhance waste reuse <5%

<u>Participation in Recovery Opportunities</u> - actions expected to enhance participation >5% Product Stewardship - Not Applicable.

<u>Economic, administrative or partnership benefits</u> - actions expected to reduce direct expenses by <5% and no partnering or hiring is expected for enforcement of Sanitation rules

- 3) IDENTIFICATION OF ADMINISTRATIVE, CONTRACTUAL, AND FINANCIAL REQUIREMENTS FOR IMPLEMENTATION existing administrative, contractual, and financial structure is sufficient to support ongoing and proposed waste reduction activities.
- 4) IDENTIFICATION OF NEW OR MODIFICATION TO LOCAL LAWS, ORDINANCES OR REGULATIONS TO IMPLEMENT PROGRAMS no new local laws, ordinances, or regulations identified as necessary at this time.

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5.5.g SUMMARY OF STATUS & RECOMMENDATION The Town's solid waste program provides disposal for MSW and recyclables for all residents based on an annual sanitation tax. There is no Town PAYT (pay as you throw) system. This programmatic choice supports proper waste management and minimizes the perceived need for illegal disposal and littering, and further minimizes financial impacts to the Town. Bag fees and PAYT programs are documented to be disadvantageous to lower income families and individuals, creating financial hardship that discourages proper disposal of solid waste. C&D wastes are collected curbside in limited quantities. C&D debris is collected curbside by the Town's contracted carter on bulk days. Bulk rules apply to

bundled, maximum two feet diameter, or stacked.

CRITERIA OF EVALUATION

1) ADMINISTRATIVE/TECHNICAL IMPACTS

<u>1i) Waste Stream Impact - Quantitative/Qualitative</u> - Negative impacts in the form of increased littering is anticipated with implementation of a PAYT system.

1ii) Appropriate Type & Size of Facilities or Program - No new infrastructure is required.

1iii) Cost & Lifecycle Analysis - No cost impacts anticipated with retaining existing cost structure.

 $\underline{\text{1iv) Impact to Natural Resource Conservation, Energy Production, and Jobs} \text{ - No impacts are anticipated}.$

2) JURISDICTIONAL IMPACTS ON NEIGHBORING PLANNING UNITS, AND ENVIRONMENTAL JUSTICE WITHIN THE TOWN

<u>2i) Assessment of Participation Interest Potential by Neighboring Planning Units</u> - potential for participation by neighboring Planning Units is not expected at this time.

<u>2ii)</u> Assessment of Alternatives That Might be Available if Other Planning Units Participate - activities are not dependent upon participation of other Planning Units.

2iii) Comments Received by Neighboring Planning Units - none at this time.

<u>2iv) Assessment of Environmental Justice Within the Town</u> - no negative impact anticipated from proposed activities.

ALTERNATIVE SELECTION STATUS

1) ALTERNATIVE CHOSEN & WHY - No changes recommended during this 10 year planning period.

2) EXPECTED QUANTITATIVE & QUALITATIVE IMPACTS ON -

Waste Reduction - no measurable impact expected.

Reuse - no measurable impact on expected.

C&D pickup: maximum of six items; no item may weigh more than 50 pounds; maximum dimension is four feet; and loose debris must be containerized,

Materials Recovery - no measurable impact on expected.

Participation in Recovery Opportunities - no measurable impact on expected.

Product Stewardship - Not Applicable.

Economic, administrative or partnership benefits - no measurable impact expected.

3) IDENTIFICATION OF ADMINISTRATIVE, CONTRACTUAL, AND FINANCIAL REQUIREMENTS FOR IMPLEMENTATION - existing administrative, contractual, and financial structure is sufficient.

4) IDENTIFICATION OF NEW OR MODIFICATION TO LOCAL LAWS, ORDINANCES OR REGULATIONS TO IMPLEMENT PROGRAMS - no new local laws, ordinances, or regulations identified as necessary at this time.

SUMMARY OF STATUS & RECOMMENDATION Continue educational and outreach efforts in cooperation with local community agencies including Suffolk County and locally centered community groups, including schools. The Town will investigate RRNY public outreach resources at www.recyclerightny.org. Maintain budget levels for informational media, radio air time, print advertisements, video, and website maintenance. HAZARDOUS PRODUCTS - Continue encouragement to reduce use of hazardous products through disposal during STOP days will result in cleaner MSW that is safer to manage. GLASS REDUCTION - Reduce the volume of glass in the MSW stream through promotion of bottle redemption and recycling with local breweries and wineries through partnerships. Glass removal from MSW will result in less glass in finished compost product. Glass is the single greatest contaminant of concern in compost products. FILM PLASTICS - Encourage agricultural practices that minimize use of film plastic which are difficult to recover, and encourage residential reuse of consumerowned bags that have more direct marketing agreements.

CRITERIA OF EVALUATION

1) ADMINISTRATIVE/TECHNICAL IMPACTS

1i) Waste Stream Impact - Quantitative/Qualitative -

- Continue educational and outreach efforts in cooperation with local community agencies including Suffolk County and locally centered community groups, including schools.
- Maintain budget levels for informational media, radio air time, print advertisements, video, and website maintenance.
- Continue encouragement to reduce use of hazardous products through disposal during STOP days will result in cleaner MSW that is safer to manage.
- Reduce the volume of glass in the MSW stream through promotion of bottle redemption
 and recycling with local breweries and wineries through partnerships. Glass removal from
 MSW will result in less glass in finished compost product. Glass is the single greatest
 contaminant of concern in compost products.
- Encourage agricultural practices that minimize use of film plastic which are difficult to recover, and encourage residential reuse of consumer-owned bags that have more direct marketing agreements.
- Investigate RRNY public outreach resources at www.recyclerightny.org
- 1ii) Appropriate Type & Size of Facilities or Program No new infrastructure is required.
- 1iii) Cost & Lifecycle Analysis The Town will hire a Recycling Coordinator.
- <u>1iv)</u> Impact to Natural Resource Conservation, Energy Production, and Jobs No impacts are anticipated.
- 2) JURISDICTIONAL IMPACTS ON NEIGHBORING PLANNING UNITS, AND ENVIRONMENTAL JUSTICE WITHIN THE TOWN OF RIVERHEAD

2i) Assessment of Participation Interest Potential by Neighboring Planning Units - public education and outreach information sharing with neighboring Planning Units, as requested, is to ensure thorough understanding and management of solid waste movement within and across communities.

<u>2ii) Assessment of Alternatives That Might be Available if Other Planning Units Participate</u> - activities are not dependent upon participation of other Planning Units.

2iii) Comments Received by Neighboring Planning Units - none at this time.

<u>2iv)</u> <u>Assessment of Environmental Justice Within the Town of Riverhead</u> - there is no known or expected environmental justice impact within the Town associated with these activities.

ALTERNATIVE SELECTION STATUS

1) ALTERNATIVE CHOSEN & WHY - see above

2) EXPECTED QUANTITATIVE & QUALITATIVE IMPACTS ON -

Waste Reduction - actions expected to reduce waste volumes by >5%

Reuse - actions expected to enhance reuse >5%

Materials Recovery - actions expected to enhance waste reuse >5%

Participation in Recovery Opportunities - actions expected to enhance participation ≤10% Product Stewardship - Not Applicable.

- Not Applicable.

<u>Economic, administrative or partnership benefits</u> - actions expected to reduce direct expenses by <5%. The Town will partner with local wineries and breweries to market glass recycling.

- 3) IDENTIFICATION OF ADMINISTRATIVE, CONTRACTUAL, AND FINANCIAL REQUIREMENTS FOR IMPLEMENTATION existing administrative, contractual, and financial structure is sufficient to support ongoing and proposed waste reduction activities. The Town will hire a Recycling Coordinator to assist in education efforts.
- 4) IDENTIFICATION OF NEW OR MODIFICATION TO LOCAL LAWS, ORDINANCES OR REGULATIONS TO IMPLEMENT PROGRAMS Rules will change to reflect food scraps recovery and the IMA with Islip.

5.5.i	SUMMARY OF STATUS & RECOMMENDATION				
	Continue current data collection of materials managed through the Town's curbside pickup program including recyclables once the IMA with Islip is complete				
DATA COLLECTION AND EVALUATION	 Collect supplemental material management data from private waste haulers through the Town's Sanitation permit system. 				
► Conduct quarterly and annual data reviews to verify data quality and completeness.					
	▶ Begin data collection for the food scraps recovery pilot program when operating. Apply to full scale operating projections.				

CRITERIA OF EVALUATION

1) ADMINISTRATIVE/TECHNICAL IMPACTS

<u>1i) Waste Stream Impact - Quantitative/Qualitative</u> — Quarterly and annual data reviews will create additional work load on administrative staff. Work load is expected to be moderate for quarterly and annual reviews consistent with state reporting requirements. Begin data collection for the food scraps recovery pilot program when operating. Apply to full scale operating projections.

<u>1ii)</u> Appropriate Type & Size of Facilities or Program - No additional software anticipated beyond existing database systems.

<u>1iii) Cost & Lifecycle Analysis</u> - Cost will include administrative labor for database management plus hiring a Recycling Coordinator.

<u>1iv)</u> Impact to Natural Resource Conservation, Energy Production, and Jobs - No impact on natural resources, energy production, and jobs is anticipated.

2) JURISDICTIONAL IMPACTS ON NEIGHBORING PLANNING UNITS, AND ENVIRONMENTAL JUSTICE WITHIN THE TOWN OF RIVERHEAD

<u>2i) Assessment of Participation Interest Potential by Neighboring Planning Units</u> - data information sharing with neighboring planning units, as requested, is to ensure thorough understanding and management of solid waste movement.

<u>2ii) Assessment of Alternatives That Might be Available if Other Planning Units Participate</u> - activities are not dependent upon participation of other Planning Units.

2iii) Comments Received by Neighboring Planning Units - none at this time.

 $\underline{2}$ iv) <u>Assessment of Environmental Justice Within the Town of Riverhead</u> - there is no known or expected environmental justice impacts within the Town associated with these activities.

ALTERNATIVE SELECTION STATUS

1) ALTERNATIVE CHOSEN & WHY - see above

2) EXPECTED QUANTITATIVE & QUALITATIVE IMPACTS ON -

Waste Reduction - actions expected to reduce waste volumes by <5%

Reuse - actions expected to enhance reuse <5%

Materials Recovery - actions expected to enhance waste reuse <5%

Participation in Recovery Opportunities - actions expected to enhance participation <5%

<u>Product Stewardship</u> - Not Applicable.

Economic, administrative or partnership benefits - actions expected to reduce direct expenses by <5%

- $\underline{\textbf{3)}} \ \underline{\textbf{IDENTIFICATION OF ADMINISTRATIVE, CONTRACTUAL, AND FINANCIAL REQUIREMENTS FOR} \\$
- IMPLEMENTATION existing administrative, contractual, and financial structure is sufficient.
- 4) IDENTIFICATION OF NEW OR MODIFICATION TO LOCAL LAWS, ORDINANCES OR REGULATIONS TO IMPLEMENT PROGRAMS no new local laws, ordinances, or regulations are identified as necessary at this time.

5.5.j

LOCAL HAULER LICENSING PROGRAMS, INCLUDING AN ASSESSMENT OF LAWS PREVENTING COMMINGLING OF RECYCLABLES WITH WASTE

SUMMARY OF STATUS & RECOMMENDATION

- Continuation of Sanitation permit system for private waste haulers.
- Continue support of existing local laws and Sanitation permit systems.
- ▶ Town Code 273-8 prohibits curbside disposal of recyclables commingled with waste (Appendix K).
- Town Code 273-4 establishes a Solid Waste Collection and Disposal District consisting of six contract bid areas for the collection of all residential solid waste within the district (Appendix L).

CRITERIA OF EVALUATION

1) ADMINISTRATIVE/TECHNICAL IMPACTS

<u>1i) Waste Stream Impact - Quantitative/Qualitative</u> - The most significant administrative impact will be realization of the Town's solid waste-recyclable commingling prohibition (Town Code 273-8). Enforcement against illegal dumping within the Town of Riverhead will be enhanced with the continuation of a permit program for private haulers and enforcement of the permit program and local laws.

- 1ii) Appropriate Type & Size of Facilities or Program No new infrastructure is required.
- 1iii) Cost & Lifecycle Analysis No cost impacts anticipated with retaining existing cost structure.
- <u>1iv)</u> Impact to Natural Resource Conservation, Energy Production, and Jobs No impacts are anticipated.

2) JURISDICTIONAL IMPACTS ON NEIGHBORING PLANNING UNITS, AND ENVIRONMENTAL JUSTICE WITHIN THE TOWN OF RIVERHEAD

<u>2i) Assessment of Participation Interest Potential by Neighboring Planning Units</u> - potential for participation by neighboring Planning Units is not under review at this time.

<u>2ii)</u> Assessment of Alternatives That Might be Available if Other Planning Units Participate - activities are not dependent upon participation of other Planning Units.

2iii) Comments Received by Neighboring Planning Units - none at this time.

<u>2iv)</u> Assessment of Environmental Justice Within the Town of Riverhead - no negative impact anticipated from proposed activities.

ALTERNATIVE SELECTION STATUS

1) ALTERNATIVE CHOSEN & WHY - see above

2) EXPECTED QUANTITATIVE & QUALITATIVE IMPACTS ON -

Waste Reduction - actions expected to reduce waste volumes by <5%

Reuse - actions expected to enhance reuse >5%

Materials Recovery - actions expected to enhance waste reuse >5%

<u>Participation in Recovery Opportunities</u> - actions expected to enhance participation ≥10% Product Stewardship - Not Applicable.

<u>Economic, administrative or partnership benefits</u> - actions expected to reduce direct expenses by ≥5% because more recyclables will be diverted and less solid waste disposed of..

3) IDENTIFICATION OF ADMINISTRATIVE, CONTRACTUAL, AND FINANCIAL REQUIREMENTS FOR IMPLEMENTATION - existing administrative, contractual, and financial structure is sufficient.

4) IDENTIFICATION OF NEW OR MODIFICATION TO LOCAL LAWS, ORDINANCES OR REGULATIONS TO IMPLEMENT PROGRAMS - no new local laws, ordinances, or regulations are identified as necessary at this time.

5.5.k

FLOW CONTROL AND DISTRICTING POTENTIAL

SUMMARY OF STATUS & RECOMMENDATION

- Flow control is a legal designation for directing solid waste and/or recyclables to a specified facility or facilities as designated by the Planning Unit. The Towns curbside pickup program does not direct the contracted carter where to dispose of the solid waste and recyclables. Flow Control is not part of the DLSWMP.
- Waste districting is part of the Town of Riverhead's LMSWMP. The Town is divided into six Sanitation Districts, A-F.

CRITERIA OF EVALUATION

1) ADMINISTRATIVE/TECHNICAL IMPACTS

<u>1i) Waste Stream Impact - Quantitative/Qualitative</u> – The Town of Riverhead's solid waste program projected MSW disposal rate for 2020 is 5.12 lbs/capita/day, which is greater than the State's "Beyond Waste" target of 1.7 lbs/capita/day for 2020. There are no known or expected impacts within the Town of Riverhead associated with not implementing flow control at this time. There are no known or expected impacts within the Town of Riverhead associated with continuing to operate districts at this time.

<u>1ii) Appropriate Type & Size of Facilities or Program</u> - There are no known or expected impacts to natural resource conservation, energy production, and jobs within the Town of Riverhead that are associated with not implementing flow control, or by continuing to operate Sanitation Districts A-F at this time

<u>1iii) Cost & Lifecycle Analysis</u> - there are no known or expected impacts within the Town of Riverhead associated with not implementing flow control, or by continuing to operate Sanitation Districts A-F at this time

<u>1iv) Impact to Natural Resource Conservation, Energy Production, and Jobs</u> - there are no known or expected impacts within the Town of Riverhead associated with not implementing flow control, or by continuing to operate Sanitation Districts A-F at this time.

2) JURISDICTIONAL IMPACTS ON NEIGHBORING PLANNING UNITS, AND ENVIRONMENTAL JUSTICE WITHIN THE TOWN OF RIVERHEAD

<u>2i) Assessment of Participation Interest Potential by Neighboring Planning Units</u> - activities are not dependent upon participation of other Planning Units.

<u>2ii)</u> Assessment of Alternatives That Might be Available if Other Planning Units Participate - activities are not dependent upon participation of other Planning Units.

2iii) Comments Received by Neighboring Planning Units - none at this time.

<u>2iv)</u> <u>Assessment of Environmental Justice Within the Town of Riverhead</u> - there is no known or expected environmental justice impact within the Town associated with not implementing flow control, or by continuing to operate Sanitation Districts A-F at this time.

ALTERNATIVE SELECTION STATUS

1) ALTERNATIVE CHOSEN & WHY - see above

2) EXPECTED QUANTITATIVE & QUALITATIVE IMPACTS ON -

Waste Reduction - not applicable at this time.

Reuse - not applicable at this time.

Materials Recovery - not applicable at this time.

Participation in Recovery Opportunities - not applicable at this time.

<u>Product Stewardship</u> - not applicable..

Economic, administrative or partnership benefits -not applicable at this time.

- 3) IDENTIFICATION OF ADMINISTRATIVE, CONTRACTUAL, AND FINANCIAL REQUIREMENTS FOR IMPLEMENTATION existing administrative, contractual, and financial structure is sufficient to support ongoing and proposed waste reduction activities.
- 4) IDENTIFICATION OF NEW OR MODIFICATION TO LOCAL LAWS, ORDINANCES OR REGULATIONS TO IMPLEMENT PROGRAMS existing local laws, ordinances, and regulations are sufficient at this time.

5.5.I

C&D CONSTRUCTION AND DEMOLITION DEBRIS REDUCTION, INCLUDING DECONSTRUCTION, REUSE AND RECOVERY PROGRAMS

SUMMARY OF STATUS & RECOMMENDATION

- C&D reuse is encouraged of private carters by the Town. Deconstruction involves disassembly of a structure manually to salvage the maximum economic and environmental value of materials through reuse and recycling. Homes and other structures can be deconstructed partially or completely, resulting in tax benefits to the donor. Deconstruction will be promoted at the permit department when a resident applies for a building permit.
- The Town disposes of its C&D debris with a local vendor that recycles and sells the debris.

CRITERIA OF EVALUATION

1) ADMINISTRATIVE/TECHNICAL IMPACTS

<u>1i) Waste Stream Impact - Quantitative/Qualitative</u> - Continued recycling of C&D debris by private carters and the Town will have no impact on the waste stream. Deconstruction of homes will save valuable building materials and save rich architectural history.

<u>1ii) Appropriate Type & Size of Facilities or Program</u> - Existing infrastructure is sufficient at this time with no changes recommended or anticipated.

 $\underline{1iii)} \ Cost \ \& \ Lifecycle \ Analysis - Continuation \ of the \ dedicated \ Sanitation \ Tax \ funding \ stream \ is \ fully \ anticipated \ to \ provide \ sufficient \ funding \ for \ program \ costs.$

<u>1iv)</u> Impact to Natural Resource Conservation, Energy Production, and Jobs – Reuse of C&D debris by the private sector and the Town will have positive impacts on natural resource conservation, energy production, and jobs. Deconstruction of homes will save valuable building materials and save rich architectural history.

2) JURISDICTIONAL IMPACTS ON NEIGHBORING PLANNING UNITS, AND ENVIRONMENTAL JUSTICE WITHIN THE TOWN OF RIVERHEAD

<u>2i) Assessment of Participation Interest Potential by Neighboring Planning Units</u> - potential for participation by neighboring Planning Units is not under review at this time.

<u>2ii) Assessment of Alternatives That Might be Available if Other Planning Units Participate</u> - activities are not dependent upon participation of other Planning Units.

2iii) Comments Received by Neighboring Planning Units - none at this time.

<u>2iv)</u> Assessment of Environmental Justice Within the Town of Riverhead - no negative impact anticipated from proposed activities.

ALTERNATIVE SELECTION STATUS

1) ALTERNATIVE CHOSEN & WHY - see above

2) EXPECTED QUANTITATIVE & QUALITATIVE IMPACTS ON -

<u>Waste Reduction</u> - actions expected to reduce waste volumes by approximately 5%

Reuse - actions expected to enhance reuse by approximately 5%

Materials Recovery - actions expected to enhance waste reuse by approximately 5%

<u>Participation in Recovery Opportunities</u> - actions expected to enhance participation by approximately 10%

Product Stewardship - Not Applicable.

<u>Economic</u>, <u>administrative or partnership benefits</u> - actions expected to reduce direct expenses by approximately 5% prior to hiring a Recycling Coordinator.

3) IDENTIFICATION OF ADMINISTRATIVE, CONTRACTUAL, AND FINANCIAL REQUIREMENTS FOR IMPLEMENTATION - existing contractual and financial structure is sufficient to support ongoing and proposed waste reduction activities. The Town will hire a Recycling Coordinator to assist in developing reuse and recovery of C&D debris.

4) IDENTIFICATION OF NEW OR MODIFICATION TO LOCAL LAWS, ORDINANCES OR REGULATIONS TO IMPLEMENT PROGRAMS - no new local laws, ordinances, or regulations identified as necessary at this time.

5.5.m

PRIVATE SECTOR MANAGEMENT & COORDINATION OPPORTUNITIES

SUMMARY OF STATUS & RECOMMENDATION

The Town's intent for solid waste is to provide locally owned and operated infrastructure through curbside pickup by locally contracted carters. Private sector management and coordination opportunities will continue to center around support of reuse opportunities and C&D deconstruction.

CRITERIA OF EVALUATION

1) ADMINISTRATIVE/TECHNICAL IMPACTS

1i) Waste Stream Impact - Quantitative/Qualitative — The Town will continue to pick up and dispose of residential C&D debris by a private contracted carter. C&D debris from Town work or facilities will continued to be disposed of at Crown Recycling for reuse. Residential storm debris is accommodated by the curbside pickup program. Town generated storm debris is picked up and disposed of by the Sanitation and Highway Departments at their respective yard waste facilities.

<u>1ii) Appropriate Type & Size of Facilities or Program</u> - Existing infrastructure is sufficient at this time with no changes recommended or anticipated.

<u>1iii) Cost & Lifecycle Analysis</u> - Continuation of the dedicated Sanitation tax funding stream is fully anticipated to provide sufficient funding for program costs.

<u>1iv)</u> Impact to Natural Resource Conservation, Energy Production, and Jobs - Utilization of the residential curbside pickup program with storm debris pickup and disposal for Town properties by Highway and Sanitation will have positive impacts on natural resource conservation, energy production, and jobs.

2) JURISDICTIONAL IMPACTS ON NEIGHBORING PLANNING UNITS, AND ENVIRONMENTAL JUSTICE WITHIN THE TOWN OF RIVERHEAD

<u>2i) Assessment of Participation Interest Potential by Neighboring Planning Units</u> - potential for participation by neighboring Planning Units is not under review at this time.

<u>2ii)</u> Assessment of Alternatives That Might be Available if Other Planning Units Participate - activities are not dependent upon participation of other Planning Units.

2iii) Comments Received by Neighboring Planning Units - none at this time.

 $\underline{2iv}$) Assessment of Environmental Justice Within the Town of Riverhead - no negative impact anticipated from proposed activities.

ALTERNATIVE SELECTION STATUS

1) ALTERNATIVE CHOSEN & WHY - see above

2) EXPECTED QUANTITATIVE & QUALITATIVE IMPACTS ON -

Waste Reduction - actions expected to reduce waste volumes by <5%

Reuse - actions expected to enhance reuse <5% from current levels.

Materials Recovery - actions expected to enhance waste reuse <5% from current levels.

Participation in Recovery Opportunities - actions expected to enhance participation <5%.

Product Stewardship - Not Applicable.

<u>Economic, Administrative or Partnership Benefits</u> - Actions believed to provide economic benefits associated with cost control for long term reliable solid waste management services available to Town of Riverhead residents.

3) IDENTIFICATION OF ADMINISTRATIVE, CONTRACTUAL, AND FINANCIAL REQUIREMENTS FOR MPLEMENTATION - existing administrative, contractual, and financial structure is sufficient to support ongoing activities.

4) IDENTIFICATION OF NEW OR MODIFICATION TO LOCAL LAWS, ORDINANCES OR REGULATIONS TO IMPLEMENT PROGRAMS - no new local laws, ordinances, or regulations identified as necessary at this time.

5 5 n

MANAGEMENT OF WASTE THROUGH THERMAL TREATMENT TECHNOLOGIES

SUMMARY OF STATUS & RECOMMENDATION

- Household pharmaceuticals collected by Riverhead Police Department including during the semi-annual STOP Day drop off event are managed thru incineration.
- ► Continue to manage MSW delivered to the Town of Brookhaven's transfer station for incineration by Covanta Babylon and Covanta Hempstead. The ashes are landfilled by the Town of Brookhaven at its ash landfill facility. This facility is planned for closure during 2024. ► The Town recommends installing a rail spur to the incinerators for off-island disposition. This work would be initiated and managed by Covanta.

CRITERIA OF EVALUATION

1) ADMINISTRATIVE/TECHNICAL IMPACTS

<u>1i) Waste Stream Impact - Quantitative/Qualitative</u> - Continued thermal destruction of HH pharmaceuticals, hazardous waste and MSW from Riverhead. Cessation of MSW ashes from Covanta facilities at Brookhaven's ash landfill in 2024.

<u>1ii)</u> Appropriate Type & Size of Facilities or Program - Existing infrastructure is sufficient at this time with no changes recommended or anticipated. Off-Island disposal of MSW ash will be required when the ash landfill closes in 2024. More space for landfilling the MSW ash is needed to avoid spending increased costs for off-Island disposal alternatives.

<u>1iii) Cost & Lifecycle Analysis</u> - Continuation of the dedicated Sanitation tax funding stream is fully anticipated to increase significantly in 2024 to pay for off-Island disposal of MSW ash. Covanta's expenses continually rise and those increased costs are passed to their municipal partners. The Town will investigate forming an IMA with neighboring planning units in an attempt to control costs.

<u>liv</u>) Impact to Natural Resource Conservation, Energy Production, and Jobs - There are no known or expected impacts to natural resource conservation, energy production, and jobs within the Town of Riverhead that are associated with utilizing renewable fuel. Incinerating HH pharmaceuticals and hazardous waste is believed to have positive impacts on natural resource conservation, energy production, and jobs. Although jobs will be lost when the ash landfill closes, substantially more jobs will be created due to transporting MSW ash off-Island. Closing the ash landfill will conserve natural resources by significantly reducing emissions from the landfill. However, emissions will also be increased substantially due to the type of transportation needed to remove MSW ash from Long Island.

2) JURISDICTIONAL IMPACTS ON NEIGHBORING PLANNING UNITS, AND ENVIRONMENTAL JUSTICE WITHIN THE TOWN OF RIVERHEAD

<u>2i) Assessment of Participation Interest Potential by Neighboring Planning Units</u> - All of the neighboring planning units are intimately invested in finding alternatives to ash landfill disposal at Brookhaven as each neighboring units uses incineration for MSW reduction.

<u>2ii)</u> Assessment of Alternatives That Might be Available if Other Planning Units Participate - activities are not dependent upon participation of other Planning Units.

2iii) Comments Received by Neighboring Planning Units - none at this time.

<u>2iv)</u> <u>Assessment of Environmental Justice Within the Town of Riverhead</u> - The increase in emissions from off-Island disposal alternatives will represent a negative impact from the proposed activities.

ALTERNATIVE SELECTION STATUS

1) ALTERNATIVE CHOSEN & WHY - Rail spur

installation to the incinerators for off-island

disposition. This work will be initiated and

managed by Covanta.

2) EXPECTED QUANTITATIVE & QUALITATIVE IMPACTS ON -

 $\frac{\text{Waste Reduction}}{\text{Additional MSW reduction expected to reduce ash waste volumes landfilled by 100\%}.$ Additional MSW reduction expected to be <5% from thermal incineration as the ash volume will vary based on MSW input to the Covanta Babylon and Hempstead incinerators .

Reuse - actions expected to enhance reuse <5% from current levels.

Materials Recovery - actions expected to enhance waste reuse <5% from current levels.

<u>Participation in Recovery Opportunities</u> – Closing the ash landfill is expected to enhance participation by 100% in finding disposal alternatives..

Product Stewardship - Not Applicable.

Economic, Administrative or Partnership Benefits - actions expected to increase direct expenses by 100%.

3) IDENTIFICATION OF ADMINISTRATIVE, CONTRACTUAL, AND FINANCIAL REQUIREMENTS FOR IMPLEMENTATION - existing administrative, contractual, and financial structure is sufficient to support ongoing activities.

4) IDENTIFICATION OF NEW OR MODIFICATION TO LOCAL LAWS, ORDINANCES OR REGULATIONS TO IMPLEMENT PROGRAMS - no new local laws, ordinances, or regulations identified as necessary at this time.

5.5.0	SUMMARY OF STATUS & RECOMMENDATION
WASTE DISPOSAL OPTIONS	 Form an inter-municipal agreement with local towns and Covanta to stabilize rising costs of incineration. After 2024 MSW will continue to be disposed of by the Town's carter at one of the Long Island Waste to Energy Facilities.
	 Off-Island rail will be required to haul the ash from MSW incinerators to a licensed disposal facility.

CRITERIA OF EVALUATION

1) ADMINISTRATIVE/TECHNICAL IMPACTS

1i) Waste Stream Impact - Quantitative/Qualitative - The availability of trucks for transport will be scarce and more costly as a result of the need to now transport C&D and ash off Island Off-Island trucking is not a viable option with the new DOT rules; steerable drop axel, e-logs etc. Landfilling MSW on Long Island is not a viable option due to the high groundwater table. Increasing Waste-to=Energy (WTE) capacity or extending a rail spur to the Covanta facilities for off-Island transportation and disposal are the most viable alternatives.

.1ii) Appropriate Type & Size of Facilities or Program - Rail spurs would necessitate construction at each Covanta facility on LI. The alternative is off-island trucking.

<u>1iii) Cost & Lifecycle Analysis</u> - **Rail** spur construction will be subject to less regulations and will be overall less expensive than expanding WTE capacity. Operational costs for WTE will be higher due to Federal, State and Local regulations.

1iv) Impact to Natural Resource Conservation, Energy Production, and Jobs — WTE expansion will use valuable land for construction of the facilities. However, WTE expansion will prevent groundwater contamination and associated cleanup efforts as well as saving countless acres of land for landfilling MSW. Rail spur construction will reduce air quality through air emissions and will require the purchase of land. WTE will produce electricity. Both WTE and the rail spur will create many full time permanent jobs. The WTE facility is not yet constructed nor is the rail spurs. Construction and operation of the WTE facility and rail spurs will require many full time permanent workers.

2) JURISDICTIONAL IMPACTS ON NEIGHBORING PLANNING UNITS, AND ENVIRONMENTAL JUSTICE WITHIN THE TOWN OF RIVERHEAD

<u>2i) Assessment of Participation Interest Potential by Neighboring Planning Units</u> - Neighboring planning units will be participating in evaluating alternatives for off-island disposal of ash from the incineration facilities. These planning units currently ultimately dispose of MSW at the incinerators. Finding the optima method for off-island disposal is critical to the MSW programs for each neighboring unit.

<u>2ii)</u> Assessment of Alternatives That Might be Available if Other Planning Units Participate - IMA with other local Towns and the Islip Recycling Facility will serve to stabilize recycling costs. IMAs with any WTE facilities that expand as well as any IMAs with railroad corporations will serve to stabilize operating charges.

2iii) Comments Received by Neighboring Planning Units - none at this time.

<u>2iv)</u> <u>Assessment of Environmental Justice Within the Town of Riverhead</u> - no negative impact anticipated from proposed activities as these activities will occur outside of Riverhead Township.

<u>ALTERNATIVE</u> <u>SELECTION</u> <u>STATUS 1) ALTERNATIVE CHOSEN & WHY</u> – Pursuing construction of rail spurs because of less regulations, lower operating costs, much faster implementation and simpler operations.

2) EXPECTED QUANTITATIVE & QUALITATIVE IMPACTS ON -

<u>Waste Reduction</u> - WTE expansion is expected to reduce waste volumes to substantially smaller volumes of ash (<u>>5%)</u> for off-Island disposal at a licensed ash landfill. This waste would be trucked off-Island unless rail service was more feasible. A WTE facility is expected to reduce waste overall by 80-90%. A rail spur will reduce waste on the Island by 100% by transporting it off-Island for landfill disposal.

Reuse - Not applicable.

<u>Materials Recovery</u> - WTE is expected to increase energy production through electricity generation. The rail spur will not recover any materials.

<u>Participation in Recovery Opportunities</u> - actions expected to enhance participation100% in the long term for either WTE or the rail spur.

<u>Product Stewardship</u> - Product Stewardship will increase greatly with the WTE corporations being responsible for processing MSW for Long Island including generation to final disposition

<u>Economic, Administrative or Partnership Benefits</u> - Both alternatives will increase economic benefits through creation of jobs and for the generation of electricity and steam through WTE. Although substantive administrative benefits would not be realized, substantial partnership benefits would result from IMAs for both alternatives by controlling pricing.

3) IDENTIFICATION OF ADMINISTRATIVE, CONTRACTUAL, AND FINANCIAL REQUIREMENTS FOR IMPLEMENTATION - IMAs would be developed between the WTE corporation and local municipalities.

4) IDENTIFICATION OF NEW OR MODIFICATION TO LOCAL LAWS, ORDINANCES OR REGULATIONS TO IMPLEMENT PROGRAMS - Recycling rules must be enforced to optimize performance by either alternative.

CHAPTER 6 - IMPLEMENTATION SCHEDULE

6.1 Town of Riverhead Solid Waste Management Intent

According to Town Code 273-2 Purpose; findings; construal of provisions.

The purpose of this chapter is to protect and promote the health, safety and welfare of the residents of the Town of Riverhead by controlling the storage and disposal of solid waste generated within the Town in the most economical and environmentally acceptable manner; provide for the orderly collection of solid waste; implement the Town of Riverhead Solid Waste Management Plan; comply with the requirements and further the purposes of the New York State Solid Waste Management Act; and to protect the drinking water supply in the Town of Riverhead. In addition, the Town Board finds that increased efforts to recover and reuse recyclable materials will protect and enhance the Town's physical environment and promote the health and safety of persons and property within the Town. The provisions set forth herein seek not only to facilitate the implementation and operation of an environmentally sound solid waste management program and conservation of natural resources but to promote the recovery of materials from the Town's solid waste stream for the purpose of recycling such materials by source separation. Accordingly, the Town Board finds it is necessary to expand the Town's recycling program to provide opportunities for nonresidential, commercial, industrial and institutional establishments to recycle. Nothing herein is intended or should be construed to modify or amend any terms or conditions of any contracts for solid waste services to which the Town of Riverhead is a party in effect on the effective date of this chapter. Refer to Appendix M for Town Code 273-2.

It is important to note that the Town's intent is a continuation and expansion of the fundamental solid waste program goals articulated in earlier versions of the local solid waste management plan. As a "living document" the <u>Town of Riverhead Solid Waste Management Plan - Update 2020-2029</u> is written to continue the work of the solid waste program, and it is not intended to replace previously stated goals.

The Implementation Schedule may be found in Appendix N.

CHAPTER 7 - WASTE STREAM PROJECTIONS - NYSDEC Waste Calculator 10yr Projections

Itemized waste generation tonnages and diversion levels have been calculated for MSW using NYSDEC waste calculators. Based upon these calculators, the Planning Unit's population projections for the 10 year planning period show a rapid and steady population increase (23% from Step 3), annual waste generation tonnages are increasing by 15% during the planning period, and annual diversion rates increase by an estimated 10% for tin, plastic and glass, 30% for food scraps and 5% for the remainder of the waste streams annually. MSW diversion rate is estimated to double by 2029. The C&D diversion rate for residents is estimated to rise by 99.2% by 2029, which reflects home construction and renovation projects. Below is the complete set of output tables for waste projections. The dramatic increase in diversion rate is due to:

- The partnerships the Town will enter into with breweries and wineries for a glass market.
- The partnerships the Town will enter into with companies which distribute consumer products for reuse by the public.
- The partnership the Town will enter into with the Town of Islip for recycling.
- The partnership the Town will enter into with local Towns and any new rail or trucking service for off site disposal of ash.
- The partnership the Town will enter into with local Towns and Covanta for waste incineration.
- Removing food scraps from the waste stream, which is 30% of the waste stream, for disposal in an anaerobic digester which generates electricity.
- Diverting 40% of metals from the waste stream through recovery from incinerator ash and recycling.
- Diverting a minimum of 15% glass from the waste stream through recycling and reuse from wineries and breweries.
- Diverting at least 5% of plastics from recycling and waste reduction in agriculture due to education.
- Diverting at least 5% of the remaining waste stream through recycling.

Utilizing the NYSDEC waste calculators to generate estimates, the solid waste quantity projections are expected to keep pace with population and waste generation per capita values for the nation. Changes in solid waste characteristics are also expected to match nationwide trends, including the increased light weighting of products and packaging associated with packaging innovations. Conversely, there are expected increases in the quantity and volume of consumer products within the waste stream, both as household trash and as construction & demolition debris. Increased recycling opportunities are expected to keep pace with market growth surrounding product stewardship legislation.

Projected solid waste quantities, based upon historic tonnages and making a small increase for population changes provides a ten year planning period estimate of approximately 43,741 total tons per year for all wastes and recyclables combined. This tonnage estimate identifies an increase in total weight (15%) which reflects the increasing demographics of the Town. Per capita generation rates are reduced by 4.8% due to education among other positive measures.

Please note in Step 5 that two cells exceed calculator limits. The data input which results in Total Paper and Total Organics exceeding calculator limits is actual data collected over each year and reported to the Town. Both the Total Paper and Total Organics are expected to decline markedly over the Planning Period due to the Town's Food Scraps recycling initiative and the education campaign which is expectedly to reduce paper waste.

7.1 MSW Waste Projection Tables

MSW Waste Projection Tables may be viewed in Appendix A.

7.2 <u>C&D Waste Projection Tables</u>

Because of the small population of the Town of Riverhead, all C&D debris from residents is picked up by the Town's contracted carter and disposed of off-site at a permitted facility. C&D waste from Town facilities is collected by the Department of Sanitation and disposed of at a permitted off-sited facility. Therefore, the Town has not completed C&D Waste Projection Tables consistent with discussions with the DEC Main Office in Albany.

CHAPTER 8 - PUBLIC PARTICIPATION

8.1 Public Input Opportunities

The Town encouraged comment on the DLSWMP through a 45 day comment period from April 15, 2021 through April 29 2021.

8.1.1 Internet Access

The DLSWMP was posted on the internet for viewing during the public comment period. The website address is: www.townofriverheadny.gov.

8.1.2. Public Notification

A notice referencing the Town's website and the DLSWMP posting was posted in area newspapers indicating the DLSWMP may be viewed through our website and that hard copies were available upon request.

8.1.3. Public Comment

There were four attendees at the public hearing. Comments received from the public both at the public hearing and during the public comment period are addressed below.

8.2 Public Comments and Town Responses

Comment #1

I have a question about the table on pg. 11. It says TOR's 2019 performance actual is 2.5 lbs/capita/day. Is that supposed to be 5.2 or am I misreading it? Also, why does it refer to materials being landfilled?

Response #1

Three typographical data entry errors were found and corrected. Materials being landfilled was replaced in the LSWMP with "solid waste disposal".

Comment #2

The SWMP claims that part of the Towns recyclables is delivered to the Town of Huntington. The Town of Huntington does not accept out of town waste.

Response #2

One of the carters which does business in the Town claims that part of their recycling is delivered to the Town of Huntington Recycling Center. This carter recently merged with an out of town carter. The new origin to destination information for the merged company is included in this LSWMP.

Comment #3

The SWMP omits C&D projects. Why? Does the Town expect its C&D debris generation to remain consistent through the 10 year plan period?

Response #3

The SWMP omits C&D projections because the Town only deals with a small quantity of C&D generated by Highway and B&G. This material is delivered to Peconic Recycling. C&D debris generated by Town residents is collected by our carter and disposed of at several different facilities as detailed in Chapter 3. The Town's C&D debris disposal is bid annually to local facilities.

APPENDIX

APPENDIX A - MSW Waste Projection Tables - Town of Riverhead 2020 Recycling Calendar and MSW Flyer APPENDIX B APPENDIX C - Commercial Private Waste Disposal License Application APPENDIX D - European American Award For All Six Residential Solid Waste CBAs For A Period Of Five Years From January 1, 2018 Through December 31, 2022 - Resolution #594 APPENDIX E - Suffolk Recycles Flyer APPENDIX F - Site Plan, Young's Avenue Landfill APPENDIX G - Yard Waste Facility Layout APPENDIX H - Compost Facility Layout APPENDIX I - Town of Riverhead 2020 STOP Days Flyer APPENDIX J - Costs for Town of Riverhead Municipal Solid Waste Program APPENDIX K - Source Separation of Recyclable Materials - Town Code 273-8 APPENDIX L - Establishment of District - Town Code 273-4 APPENDIX M - Town of Riverhead Solid Waste Management Intent - Town Code 273-2

APPENDIX N

- Implementation Schedule

<u>APPENDIX A – MSW Waste Projection Tables</u>

Step 1. Planning Unit and Plan Period Selection

Please, select from the drop-down list the name of your **planning unit** and the **planning period** of your **LSWMP**. Be aware that a LSWMP must be developed for a **10-year period**, and that your selection will be replicated on each one of the following tabs.

Planning Unit	Town of Riverhead
Planning Period	2020-2029

Step 2. Waste Generation Rate

In order to project how the amount of waste generated in the planning unit will change over time, data regarding the current amount of waste generated by the planning unit is needed. This can be the total tons of waste generated by the planning unit in the current year (**Tons/yr**), or this can be the estimated daily quantity of waste generated per person in the planning unit (**Ib/person/day**). If both the total annual generation and the estimated generation rate per person are unknown, the state average for MSW generation rate can be used along with the planning unit's population to estimate the total amount of waste generated in the planning unit.

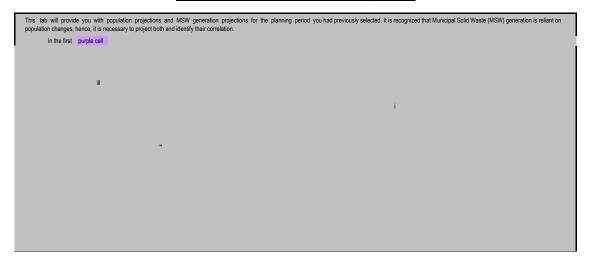
For this step, select **one** of the options that describes the known information about the planning unit. Enter the waste generated in Tons (MSW disposed & Recycled Materials) or the waste generation rate in lb/person/day) in the purple cell. If no data on the waste generated in the planning unit is available, choose the corresponding option from the list. The calculator will estimate the total amount of waste generated based on the state's average generation rate and the planning unit's population.

Town of Riverhead

The amount of waste generated (by all residents, institutions, etc.) in the planning unit will be based on what is known. If the MSW generation amount and the generation rate are unknown, the state average for MSW generation at evill be used.							
I know the amount of MSW generated (Tons/year):	Enter tons disposed here:	29,194.07					
The planning unit Average MSW Generation Rate (lb/person/day) is: The amount of MSW Generated and the planning unit Average MSW Generation Rate are unknown.	Enter tons diverted here:	8,824.92					

SWMP 2020 to 2029.wpd

Step 3. Planning Unit Population - Projections & Municipal Solid Waste (MSW) - Projections



Town of R	2020-2029	
Current Data		

Current Data							
2010 Population Census	33,506						
2019 Population	40,397						
2019 MSW Generated (Tons/yr)	38,019						
2019 MSW generation rate (Lb/person/day)	3.96						
2019 MSW Disposed (Tons/yr)	29,194						
2019 MSW Diverted (Tons/yr)	8,825						

Annual rate of population (%)	growth	2.10%

Population Projection										
2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
40,397	41,246	42,112	42,996	43,899	44,821	45,762	46,723	47,705	48,706	49,729

Forecasting future conditions What do you expect to happen to the MSW generation rate over the next 10 year po	eriod plan?
MSW generation rate does not change. Consequently, MSW generation fluctuates with the population of the planning unit, if the population increases, waste generation will rise as well, and vice versa.	
MSW generation amount remains the same, regardless of whether or not the planning unit's population fluctuates.	
As a result of successfully implementing the Local Solid Waste Management Plan, MSW generation will be reduced by an annual factor of	
Reduction Factor (per year)	0.5%

MSW generation rate (Lb/person/day)	5.15
--	------

MSW Generationpro jection											
2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	
5.15	5.12	5.10	5.07	5.05	5.02	5.00	4.97	4.95	4.92	4.90	(Lb/person/day)
37,953	38,557	39,170	39,792	40,425	41,067	41,720	42,383	43,057	43,741	44,436	Tons/yr

Step 4. Municipal Solid Waste (MSW) Detailed Composition Analysis

The next step is to <u>Identify the Materials Composition of the Waste Stream</u> based on population density, and demographic characteristics of the Planning Unit. This tab will provide the PU with a more detailed estimate of the materials present in the waste stream, which could be crucial when prioritizing the initiatives and programs of the LSWMP.

The population density distribution has been calculated based on the 2010 Census data and will be auto populated when a planning unit is selected. The following parameters were used:

Rural: <325 persons/mi²

Suburban: >325 and <5,000 persons/mi²

Urban: >5,000 persons/mi²

Under Density Population Distribution, the user has the option to modify the percentage values for the Sector (Residential and Commercial/Institutional) based on land use and specific characteristics of each planning unit. For example: A rural population in Westchester County could be 64% Residential and 36% Commercial / Institutional, while in Wyoming County might be 50% Residential and 50% Commercial / Institutional.

The results are presented on the last right column under MSW Materials Composition. Be aware of color changes on the cells, whenever a category represents over 15% of the total waste generation, the cell to easily identify key categories of the waste stream. It will also facilitate the selection of initiatives, programs, and infrastructure for the solid waste management system. will turn

Note: If no data exists, use the pre-populated information in the worksheet.

			Rural			Suburban			Urban		MS
			19.99%			80.01%			0.00%		Mate
Density Popula	tion Distribution	Residential		Combined	Residential		Combined	Residential	Comm/Inst.	Combined	Compo
		58.00%	Comm/Inst.	100.00%	55.00%	Comm/Inst.	Combined	58.00%			100.
Newspaper		5.20%	42.00% 1.90%	3.81%	5.00%	45.00% 1.90%	100.00% 3.61%	6.60%	42.00%	100.00% 4.67%	3.6
Newspaper Corrugated Cardboard		6.60%	13.90%	9.67%	6.60%	13.90%	9.89%	6.90%	13.70%	9.76%	9.8
Jorragatou Jaraboura	Paperboard	3.20%	1.10%	2.32%	3.30%	1.00%	2.27%	3.60%	0.90%	2.47%	2.2
	Office Paper	0.80%	3.80%	2.06%	0.90%	4.20%	2.39%	1.10%	5.80%	3.07%	2.3
	Junk Mail	3.00%	0.70%	2.03%	3.20%	0.70%	2.08%	3.50%	0.70%	2.32%	2.0
Other Recyclable Paper	Other Commercial Printing Magazines	1.70% 1.10%	2.30% 0.90%	1.95% 1.02%	1.70%	2.40%	2.02% 0.91%	2.30% 1.10%	2.60% 1.00%	2.43% 1.06%	0.9
outer recognisation upon	Books	0.50%	0.30%	0.42%	0.50%	0.30%	0.41%	0.60%	0.40%	0.52%	0.4
	Paper Bags	0.50%	0.20%	0.37%	0.50%	0.20%	0.37%	0.60%	0.20%	0.43%	0.3
	Phone Books Poly-Coated	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.30%	0.20%	0.26%	0.3
		0.20% 11.30%	0.30% 9.90%	0.24%	0.20% 11.60%	0.20% 10.10%	0.20%	0.30% 13.40%	0.20% 12.00%	0.26% 12.81%	0.2
Other Recyclable Paper (Tota	1)	6.80%	6.80%	6.80%	6.40%	6.40%	6.40%	6.80%	6.80%	6.80%	
Other Compostable Paper	Total Paper		32.50%	30.99%	29.60%	32.30%	30.82%	33.70%	34.50%	34.04%	
	Ferrous Containers	29.90% 1.90%	1.00%	1.52%	1,20%	0.70%	0.98%	1,40%	0.70%	1.11%	1.0
Ferrous/Aluminum Containers	Aluminum Containers	0.70%	0.40%	0.57%	0.60%	0.70%	0.96%	0.50%	0.40%	0.46%	0.4
Ferrous/Aluminum Container		2.60%	1.40%	2.10%	1.80%	1.00%	1.44%	1.90%	1.10%	1.56%	1.5
Other Ferrous Metals		5.20%	5.40%	5.28%	5.00%	5.80%	5.36%	3.30%	3.70%	3.47%	5.3
	Other aluminum	0.20%	0.30%	0.24%	0.20%	0.30%	0.25%	0.20%	0.30%	0.24%	0.2
Other Non-Ferrous Metals	Automotive batteries	0.80%	0.50%	0.67%	0.70%	0.40%	0.57%	0.20%	0.20%	0.20%	0.5
	Other non-aluminum	0.50%	0.30%	0.42%	0.30%	0.40%	0.35%	0.40%	0.20%	0.32%	0.3
Other Non-Ferrous Metals (To		1.50%	1.10%	1.33%	1.20%	1.10%	1.16%	0.80%	0.70%	0.76%	1.1
Total	Metals	9.30%	7.90%	8.71%	8.00%	7.90%	7.96%	6.00%	5.50%	5.79%	8.1
PET Containers		1.10%	0.80%	0.97%	0.90%	0.80%	0.86%	1.20%	1.00%	1.12%	0.8
HDPE Containers		1.10%	0.60%	0.89%	0.90%	0.70%	0.81%	1.00%	0.70%	0.87%	0.8
Other Plastic (3-7) Containers	1	0.20%	0.10%	0.16%	0.20%	0.20%	0.20%	0.20%	0.20%	0.20%	0.1
Film Plastic		5.70%	5.90%	5.78%	5.50%	5.80%	5.64%	5.80%	5.80%	5.80%	5.6
	Durables	3.10%	3.20%	3.14%	3.00%	3.20%	3.09%	3.20%	3.30%	3.24%	3.1
Other Plastic	Non-Durables Packaging	1.60%	1.80%	1.68%	1.60%	1.80%	1.69% 1.27%	1.80% 1.50%	1.90% 1.10%	1.84%	1.6
Other Plastic (Total)	i ackaging	6.10%	6.10%	6.10%	6.00%	6.10%	6.05%	6.50%	6.30%	6.42%	6.0
Total I	Plastics	14.20%	13.50%	13.91%	13.50%	13.60%	13.55%	14.70%	14.00%	14.41%	13.6
Glass Bottles, Jars and Cont	ninere	4.10%	3.80%	3.97%	3.90%	3.80%	3.86%	4.30%	3.80%	4.09%	3.8
Other Glass (Flat glass, dish		0.50%	0.40%	0.46%	0.30%	0.40%	0.35%	0.40%	0.40%	0.40%	0.3
	Glass	4.60%	4.20%	4.43%	4.20%	4.20%	4.20%	4.70%	4.20%	4.49%	4.2
Food Scraps		12.70%	13.30%	12.95%	12.90%	15.50%	14.07%	17.20%	25.20%	20.56%	13.
Leaves and Grass / Pruning a	and Trimmings	3.10%	1.10%	2.26%	11.30%	9.10%	10.31%	4.20%	1.50%	3.07%	8.7
Total C)rganics	15.80%	14.40%	15.21%	24.20%	24.60%	24.38%	21.40%	26.70%	23.63%	22.5
Clothing Footwear, Towels, S	heets	4.60%	3.00%	3.93%	4.40%	3.20%	3.86%	4.80%	2.50%	3.83%	3.8
Carpet		1.40%	1.30%	1.36%	1.70%	1.40%	1.57%	1.70%	0.90%	1.36%	1.5
Total	Textiles	6.00%	4.30%	5.29%	6.10%	4.60%	5.43%	6.50%	3.40%	5.20%	5.4
Total	Wood	4.10%	9.00%	6.16%	2.90%	4.10%	3.44%	2.00%	3.50%	2.63%	3.9
	d and non-adulterated wood)										4.2
DIY - Construction & Renovation	n Materials	8.00%	7.60%	7.83%	3.80%	2.70%	3.31%	4.40%	3.80%	4.15%	1.6
Diapers Electronics		1.90%	1.10%	1.56%	2.10%	1.20%	1.70%	2.30%	1.10%	1.80%	1.5
Tires		1.80%	1.80%	1.80%	1.70%	1.40%	1.57%	0.50%	0.40%	0.46%	1.6
HHW		0.60%	0.00%	0.35%	0.60%	0.00%	0.33%	0.50%	0.00%	0.29%	0.3
Soils and Fines		0.60%	0.60%	0.60%	0.10%	0.20%	0.15%	0.10%	0.10%	0.10%	0.2
Other Composite Materials - D	urable and/or Inert	1.90%	1.70%	1.82%	1.60%	1.50%	1.56%	1.90%	1.50%	1.73%	1.6
Total Mis	cellaneous	16.10%	14.20%	15.30%	11.50%	8.70%	10.24%	11.00%	8.20%	9.82%	11.3
											_
	otal	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.00%	100.

Step 5. Municipal Solid Waste (MSW) Detailed Composition Analysis

On this tab, the composition of the municipal waste stream will be estimated based on the amount of material generated in the planning unit and the state average of the different waste materials. A pie chart will be generated to clearly show the composition of the waste stream and to identify key categories of the waste stream for the planning unit.

The total tons of MSW diverted per year will be auto populated based on previous data inputs, while the amount tons diverted for each material by category should be populated by the user.

The total tons of MSW diverted per year will be auto populated based on previous data inputs, while the amount tons diverted for each material by category should be populated by the user.

The total tons of MSW diverted per year will be auto populated based on previous data inputs, while the amounts on the user.

The total tons of MSW diverted per year will be auto populated by the user.

The total tons of MSW diverted per year will be used for amounts of diverted waste by category.

The total tons of MSW diverted per year will be used for amounts of diverted waste by category.

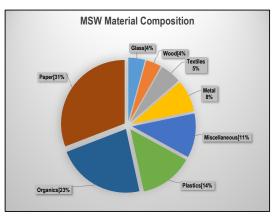
The total tons of MSW diverted per year will be generated to clearly show the MSW generation and diversion and diversion and diversion and diversion and the planning unit and the state average of the different waste anterials. A pie chart will be generated to clearly show the deal of the category in the page are consistent will be generated to clearly show the user.

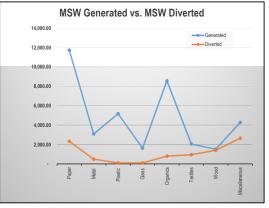
The total tons of the waste by category in the page are consistent will be generated to clearly show the user.

The total tons of the waste by category in the page are consistent will be generated to show the MSW generation and diversion and diversion and the page are consistent will be generated to show the MSW generation and diversion and the page are consistent will be generated to show the MSW generation and diversion and the page are consistent will be generated to show the MSW generation and the page are consistent will be generated to

Town of Riverhead 2020-2029

			2019	
		MSW Materials Composition (%)	MSW Generated (Tons)	MSW Diverted (Tons)
	Material	100.0%	38,019	8,824.92
	Newspaper	3.6%	1,386	940.00
	Corrugated Cardboard	9.8%	3,742	837.00
Paper	Other Recyclable Paper (Total)	10.9%	4,137	140.60
Ъ	Other Compostable Paper	6.5%	2,464	420.00
	Total Paper	30.9%	11,729	2,337.60
	Ferrous/Aluminum Containers (Total)	1.6%	597	200.00
ਲ	Other Ferrous Metals	5.3%	2,032	200.00
Metal	Other Non-Ferrous Metals (Total)	1.2%	453	86.00
2	Total Metals	8.1%	3,082	486.00
	PET Containers	0.9%	334	10.00
	HDPE Containers	0.8%	314	10.00
읉	Other Plastic (3-7) Containers	0.2%	73	10.00
Plastic	Film Plastic	5.7%	2,154	10.00
죠	Other Plastic (Total)	6.1%	2,302	60.00
	Total Plastics	13.6%	5,177	100.00
S	Glass Bottles, Jars and Containers	3.9%	1,475	50.00
Glass	Other Glass (Flat glass, dishware, light bulbs, etc.)	0.4%	140	50.47
ਲ	Total Glass	4.2%	1,614	100.47
છ	Food Scraps	13.8%	5,264	418.00
<u>=</u>	Leaves and Grass / Pruning and Trimmings	8.7%	3,308	382.85
Textiles Organics	Total Organics	22.5%	8,572	800.85
S	Clothing Footwear, Towels, Sheets	3.9%	1.473	500.00
₽	Carpet	1.5%	579	450.00
Ţ	Total Textiles	5.4%	2,052	950.00
Wood	Total Wood (Pallets, crates, adulterated and non-adulterated wood)	4.0%	1,514	1,400.00
	DIY Construction & Renovation Materials	4.2%	1,601	1,200,00
S	Diapers	1.7%	634	400.00
on	Electronics	1.6%	602	300.00
ě	Tires	1.6%	613	300.00
<u>a</u>	HHW	0.3%	127	100.00
8	Soils and Fines	0.2%	90	50.00
Miscellaneous	Other Composite Materials - Durable and/or inert	1.6%	611	300.00
	Total Miscellaneous	11.3%	4,278	2,650.00
	Total	100.0%	38,019	8.824.92





Step 6. Municipal Solid Waste (MSW) Diversion Projections

This tab will be used to create goals for the amount of material the planning unit will divert for each year of the planning period. These goals will be entered as percentages, based on how much of the material generated will be diverted for recycling or beneficial use.

Town of Riverhead

2020-2029

Year	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
Projected MSW Generation (Tons/yr)	38,557	39,170	39,792	40,425	41,067	41,720	42,383	43,057	43,741	44,436
MSW Diverted (Tons/yr)	9,935	10,487	11,054	11,653	12,287	12,957	13,666	14,415	15,208	16,051

				2019		2020	2021	2022	2023	2024	2025	2026	2027	2028	2029
		MSW Materials Composition (%)	MSW Generated (Tons)	MSW Diverted (Tons)	% MSW Diverted	% MSW Diverted									
	Material	100.0%	38,019	8,825	23.2%	25.8%	26.8%	27.8%	28.8%	29.9%	31.1%	32.2%	33.5%	34.8%	36.1%
	Newspaper	3.6%	1,386	940	67.8%	14.9%	15.7%	16.4%	17.3%	18.1%	19.0%	20.0%	21.0%	22.0%	23.1%
<u>_</u>	Corrugated Cardboard	9.8%	3,742	837	22.4%	12.3%	12.9%	13.5%	14.2%	14.9%	15.7%	16.5%	17.3%	18.2%	19.1%
Paper	Other Recyclable Paper (Total)	10.9%	4,137	141	3.4%	3.5%	3.6%	3.8%	4.0%	4.2%	4.4%	4.6%	4.9%	5.1%	5.4%
P.	Other Compostable Paper	6.5%	2,464	420	17.0%	8.6%	9.0%	9.5%	10.0%	10.5%	11.0%	11.5%	12.1%	12.7%	13.4%
	Total Paper	30.9%	11,729	2,338	19.9%	8.7%	9.1%	9.6%	10.1%	10.6%	11.1%	11.7%	12.3%	12.9%	13.5%
	Ferrous/Aluminum Containers (Total)	1.6%	597	200	33.5%	34.5%	36.3%	38.1%	40.0%	42.0%	44.1%	46.3%	48.6%	51.0%	53.6%
<u>ta</u>	Other Ferrous Metals	5.3%	2,032	200	9.8%	10.2%	10.7%	11.2%	11.8%	12.4%	13.0%	13.6%	14.3%	15.0%	15.8%
Metal	Other Non-Ferrous Metals (Total)	1.2%	453	86	19.0%	19.6%	20.6%	21.6%	22.7%	23.9%	25.1%	26.3%	27.6%	29.0%	30.5%
_	Total Metals	8.1%	3,082	486	15.8%	16.3%	17.1%	18.0%	18.9%	19.8%	20.8%	21.8%	22.9%	24.1%	25.3%
	PET Containers	0.9%	334	10	3.0%	3.0%	3.2%	3.4%	3.5%	3.7%	3.9%	4.1%	4.3%	4.5%	4.7%
	HDPE Containers	0.8%	314	10	3.2%	3.3%	3.4%	3.6%	3.8%	4.0%	4.2%	4.4%	4.6%	4.8%	5.0%
Plastic	Other Plastic (3-7) Containers	0.2%	73	10	13.7%	14.2%	14.9%	15.6%	16.4%	17.2%	18.1%	19.0%	19.9%	20.9%	22.0%
<u>las</u>	Film Plastic	5.7%	2,154	10	0.5%	0.5%	0.6%	0.6%	0.6%	0.6%	0.7%	0.7%	0.7%	0.8%	0.8%
ш	Other Plastic (Total)	6.1%	2,302	60	2.6%	2.7%	2.9%	3.0%	3.2%	3.3%	3.5%	3.7%	3.8%	4.0%	4.2%
	Total Plastics	13.6%	5,177	100	1.9%	2.0%	2.1%	2.2%	2.3%	2.5%	2.6%	2.7%	2.9%	3.0%	3.1%
ıΩ	Glass Bottles, Jars and Containers	3.9%	1,475	50	3.4%	3.5%	3.6%	3.8%	4.0%	4.2%	4.4%	4.6%	4.9%	5.1%	5.4%
Glass	Other Glass (Flat glass, dishware, light bulbs, etc.)	0.4%	140	50	36.1%	37.3%	39.1%	41.1%	43.2%	45.3%	47.6%	50.0%	52.4%	55.1%	57.8%
	Total Glass	4.2%	1,614	100	6.2%	6.4%	6.7%	7.0%	7.4%	7.8%	8.2%	8.6%	9.0%	9.4%	9.9%
ازز	Food Scraps	13.8%	5,264	418	7.9%	78.4%	80.4%	82.4%	84.5%	86.6%	88.7%	91.0%	93.2%	95.6%	98.0%
Jar	Leaves and Grass / Pruning and Trimmings	8.7%	3,308	383	11.6%	11.4%	12.0%	12.6%	13.2%	13.9%	14.6%	15.3%	16.1%	16.9%	17.8%
Organics	Total Organics	22.5%	8,572	801	9.3%	52.6%	54.0%	55.5%	57.0%	58.5%	60.1%	61.8%	63.5%	65.2%	67.0%
es	Clothing Footwear, Towels, Sheets	3.9%	1,473	500	34.0%	40.6%	42.7%	44.8%	47.0%	49.4%	51.9%	54.5%	57.2%	60.0%	63.0%
Textiles	Carpet	1.5%	579	450	77.7%	46.8%	49.2%	51.6%	54.2%	56.9%	59.8%	62.8%	65.9%	69.2%	72.6%
Te	Total Textiles	5.4%	2,052	950	46.3%	42.4%	44.5%	46.7%	49.1%	51.5%	54.1%	56.8%	59.6%	62.6%	65.8%
Wood	Total Wood (Pallets, crates, adulterated and non-adulterated wood)	4.0%	1,514	1,400	92.4%	34.1%	35.8%	36.5%	37.3%	38.0%	38.8%	39.6%	40.4%	41.2%	43.2%
	DIY Construction & Renovation Materials	4.2%	1,601	1,200	75.0%	64.6%	67.8%	71.2%	74.8%	78.5%	82.4%	86.5%	90.9%	95.4%	99.2%
ST	Diapers	1.7%	634	400	63.0%	32.6%	34.2%	35.9%	37.7%	39.6%	41.5%	43.6%	45.8%	48.1%	50.5%
) S	Electronics	1.6%	602	300	49.8%	34.3%	36.1%	37.9%	39.7%	41.7%	43.8%	46.0%	48.3%	50.7%	53.3%
ane	Tires	1.6%	613	300	49.0%	33.7%	35.4%	37.2%	39.0%	41.0%	43.0%	45.2%	47.4%	49.8%	52.3%
₩	HHW	0.3%	127	100	78.8%	40.7%	42.8%	44.9%	47.2%	49.5%	52.0%	54.6%	57.3%	60.2%	63.2%
Miscellaneous	Soils and Fines	0.2%	90	50	55.7%	57.5%	60.4%	63.4%	66.6%	69.9%	73.4%	77.1%	81.0%	85.0%	89.3%
Ž	Other Composite Materials - Durable and/or inert	1.6%	611	300	49.1%	67.6%	70.3%	73.1%	76.1%	79.1%	82.3%	85.6%	89.0%	92.5%	96.2%
	Total Miscellaneous	11.3%	4,278	2,650	61.9%	50.7%	53.2%	55.7%	58.4%	61.2%	64.2%	67.3%	70.5%	73.9%	77.1%

Step 7. Municipal Solid Waste (MSW) Generation and Diversion -D etailed Projections

The final result of the Population and Municipal Composition Calculator is presented on the last lab. This tab contains data for the current year regarding waste generated and waste devieted from disposit. This tab also shows the projected waste devientor percentages, and the amount of waste in time these percentages will divert for recycling. Total amounts of waste devieted will be calculated and card surper and each year of the planning period.

		Part																																		
																		То	wn of R	Riverhe	ead							2020-	-2029							
		İ	MSW	MSW			MSW			MSW			MSW			MSW			MSW			MSW			MSW			MSW	2027		MSW	2028		MSW	2029	
			Composition																										MSW Diverted	% MSW Diverted	generated (Tons)	MSW Diverted	% MSW Diverted	generated (Tons)	MSW Diverted	% MSW Diverted
	Mator	ial				23.2%	4 - 4	9 935	25.8%		10.487	27%		11.054	27.8%		11 653	28.8%		12 610	30.7%		12 957	31 1%		13.666	32 2%		14,415	33.5%	43,741	15,208	34.8%	44,436	16,051	36.1%
	Newspaper	ıaı					,																					-,	329	21.0%	1.595		22.0%	1,620		23.1%
	Corrugated Cardboard																											4,237	732	17.3%	4,305		18.2%	4,373		
																													0	0.0%	1,015	0	0.0%	1,011	0	0.0%
		Junk Mail																											0	0.0%	904 876	0	0.0%	918 890	0	0.0%
ē	Other Recyclable Paper	Magazines	0.93%	701	0	0.0%	359			365	0	0%	371	0	0.0%	376	0	0.0%	382	0		388		0.0%	395	0	0.0%	401	0	0.0%	407	0	0.0%	414	0	0.0%
Рар		DOONS																											0	0.0%	180 160	0	0.0%	183 163	0	0.0%
		Phone Books	0.30%	114	0	0.0%	116	0	0.0%	118	0	0%	119	0	0.0%	121	0	0.0%	123	0	0.0%	125	0	0.0%	127	0	0.0%	129	0	0.0%	131	0	0.0%	133	0	0.0%
	Other Recyclable Paper (Total)	Poly-Coated																										90 4,686	0 228	0.0%	91 4,760	244	0.0% 5.1%	93 4,836	260	0.0% 5.4%
	Other Compostable Paper		6.48%	2,464	420	17.0%	2,498	215	8.6%	2,538	229	9%	2,579	245	9.5%	2,619	261	10.0%	2,661	279	10.5%	2,703	297	11.0%	2,746	317	11.5%	2,790	338	12.1%	2,834	361	12.7%	2,879	385	13.4%
	Total Paper																												1,628	12.3%	13,494	1,737	12.9%	13,709	1,853	13.5%
	Ferrous/Aluminum Containers																												157 32	33.5% 15.1%	474 213	167 34	35.2% 15.8%	482 216	178 36	37.0% 16.6%
	Ferrous/Aluminum Containers (Total)										223			238			254												329	48.6%	687	351	51.0%	698	374	53.6%
ag a	Other Ferrous Metals	Other aluminum				0.0%																							330 0	14.3%	2,338 107		15.0%	2,375 109	375 0	0.0%
ž	Other Non-Ferrous Metals							0																					0	0.0%	257 157	0	0.0%	261	0	0.0%
	Other Non-Ferrous Metals (Total)	Other Horr-and Hindill																										513	142	27.6%	521		29.0%	529	161	30.5%
	Total Metals		8.11%	3,082	486		9,10	509	16.3%	3,175	543	17%	3,226	579	10.010	3,277	618	18.9%	3,329	659	19.8%	3,382	703	20.8%	3,436	750	21.8%	3,490	800	22.9%	3,546	854	24.1%	3,602	911	25.3%
	PET Containers HDPE Containers																												16 16	4.3%	384 361	17	4.5%	391 367	18 19	4.7% 5.0%
	Other Plastic (3-7) Containers		0.19%	73	10	13.7%	74	10	14.2%	75	11	15%	76	12	15.6%	77	13	16.4%	79	33	42.0%	80	14	18.1%	81	15	19.0%	82	16	19.9%	84	18	20.9%	85	19	22.0%
St.	Film Plastic	Durables																											18	0.7%	2,478 1.356		0.8%	2,517	21 0	0.8%
퓹	Other Plastic	Non-Durables	1.69%		0	0.0%	651	0	0.0%	661	0	0%	672	0	0.0%	683	0	0.0%	694	0	0.0%	705	0	0.0%	716	0	0.0%	727	0	0.0%	739	0	0.0%	750	0	0.0%
	Other Plastic (Total)	Packaging															77											2,608	100	0.0%	554 2,649	107	0.0% 4.0%	563 2,691	0 114	0.0% 4.2%
	Total Plastics		13.62%	5,177	100		5,250	106	2.0%	5,334	113	2%	5,419	121	2.2%	5,505	129		5,592	461	8.2%	5,681	147	2.6%	5,771	157	2.7%	5,863	167	2.9%	5,956	178	3.0%	6,051	190	3.1%
SS	Glass Bottles, Jars and Containers																														1,697		5.1%	1,724		5.4%
Glas		nt builds, etc.)								_																			83 164	52.4% 9.0%	161	175	55.1%	163	94	57.8% 9.9%
.0	Food Scraps			1,011			1,001		5.11.0	.,		- 1.0	1,000	1.10		4,000			1,000		1.00.0		1.10		1,000		0.0.0	5,962			6,057	5,788		1,001	6,027	
gan	Leaves and Grass / Pruning and Trimi	mings					-7																					3,746	603	16.1%	3,806	644	16.9%	3,866	686	17.8%
ŏ	Total Organics																												6,162	63.5%	9,862	6,432	65.2%	10,019	6,714	67.0%
ijes	Carpet Carpet																334	54.2%											432	57.2% 65.9%	1,694	1,017 461		677	1,085 492	72.6%
Te T	Total Textiles		5.40%	2,052	950	46.3%	2,081	882	42.4%	2,114	941	45%	2,148	1,004	46.7%	2,182	1,070	49.1%	2,216	1,142	51.5%	2,252	1,218	54.1%	2,288	1,299	56.8%	2,324	1,386	59.6%	2,361	1,478	62.6%	2,398	1,577	65.8%
Wood				1,011						1,000		0010	1,000			1,010			1,000		00.010						39.6%	1,715	692	40.4%	1,742	717	41.2%	1,770	765	43.2%
"	DIY Construction & Renovation Materials Diapers	S .																										1,813 719	1,647 329	90.9% 45.8%	1,841 730	1,757 351	95.4% 48.1%	1,871 742	1,856 374	99.2%
sin Oe	Electronics		1.58%	602	300	49.8%	611	210	34.3%	621	224	36%	630	239	37.9%	641	255	39.7%	651	272	41.7%	661	290	43.8%	672	309	46.0%	682	330	48.3%	693	352	50.7%	704	375	53.3%
<u>a</u>	Tires HHW																												329 82	47.4% 57.3%	705 146	351 88	49.8% 60.2%	716 148	375 94	52.3% 63.2%
SCe	Soils and Fines	w : .																										102	82	81.0%	103		85.0%	105		89.3%
Ē	Total Miscellaneous	d/or inert	11.25%	4,278	2,650	61.9%	4,338	2,201	50.7%	4.407	2,343	53%	4,477	2.495	73.1%	4,549	2.657	76.1% 58.4%	4,621	2,829	79.1% 61.2%	4,694		64.2%	4,769	3.207	67.3%	4.845	616 3.415	89.0% 70.5%	703 4.922	651 3.637	92.5% 73.9%	714 5.000	687 3.855	96.2% 77.1%
	70tal miscentificous		11.20%	4,210	2,000	01.5%	4,000	2,201	00.170	4,407	2,040	55%	4,411	2,450	00.7 %	4,043	2,001	00.410	4,021	2,020	012.0	4,004	0,012	01271	4,700	0,201	01.070	4,040	0,410	10.070	4,0LL	0,001	10.5%	0,000	0,000	11.1.2
					2019			2020			2021			2022			2023			2024			2025			2026			2027			2028			2029	
		Population Generated (tons)			40,397 38,018.99			41,246 38,557			42,112 39,170			42,996 39,792			43,899 40,425			44,821 41,067			45,762 41,720			46,723 42,383			47,705 43,057			48,706 43,741			49,729 44,436	
		Generated (Ibs/person/year)			1,882			1,870			1,860			1,851			1,842			1,832			1,823			1,814			1,805			1,796			1,787	
		Diverted (tons)		_	8,824.92			9,935	- 1		10,487	-		11,054		ı	11,653			12,610			12,957			13,666	-		14,415			15,208			16,051	
	Per Capita MSW	Diverted (lbs/person/year)			437			482			498			514			531			563			566			585			604			624			646	
	MSW	Disposed (tons)		_	29,194.07			28,622	1		28,683			28,738		1	28,771			28,457			28,763			28,717			28,641			28,533			28,386	\neg
	Per Capita MSW I	Disposed (Ibs/person/year)			1,445			1,388			1,362			1,337			1,311			1,270			1,257			1,229			1,201			1,172			1,142	

APPENDIX B - Town of Riverhead 2020 Recycling Calendar and MSW Flyer



TOWN OF RIVERHEAD

AURA JENS-SMITH, TOWN SUPERVISOR.

200 Howell Avenue, Riverhead, NY 11901 Tel: (631) 727-3200 / Fax: (631) 727-6712

December, 2019

Dear Resident.

Enclosed you will find the 2020 Recycling Calendar for Town of Riverhead residents. This calendar outlines our recycling guidelines, collection schedule and holidays. This letter includes helpful recycling information further explaining curbside pickup for both refuse and recyclables. Please take a moment to review the information provided below.

All residents have two days of trash collection each week: based on your address, your days are either Monday & Thursday or Tuesday & Friday. Recyclables are collected throughout the Town on Wednesday only. Please take notice that if a holiday falls on your recyclable or trash collection day, pickup will not be made until your next scheduled pickup day.

Material must be at the curb at 6:00 AM on your regular collection day, but please remember, Town ordinance prohibits trash and/or recyclables from being placed at the curb prior to 12:00 PM on the day before your designated collection day.

An unlimited amount of Yard Waste (excluding grass clippings) shall be collected on your normally scheduled bulk day on the weeks highlighted in tan on the attached recycling calendar. Leaves must be bagged in paper lawn & leaf bags or placed loose in pails for curbside pickup. Branches shall be bundled in four (4) ft. or shorter lengths, not weighing more than 50lbs. Do not use plastic bags, they will not be collected.

The town continues to have a permanent medication drop box located in the lobby of the Riverhead Police Department at 210 Howell Avenue. Unused, unwanted and expired medications can be disposed of at this location 24 hours a day, 7 days a week.

As a reminder, you can dispose of your e-waste (computers and related equipment, electronics, and televisions) at the Town's Yard Waste Facility on Youngs Avenue. This facility's operating hours are Thursday through Monday from 7:00 AM - 3:00 PM.

You can find this and more helpful information by visiting the Sanitation Department's section of the Town's website at www.townofriverheadny.gov. Should you require personal attention, you can reach the Sanitation Department at 631-727-3200 ext. 391 between 8:30 AM and 4:30 PM, Monday thru Friday.

Thank you for your cooperation and I wish you and your family a very happy and safe holiday season

Sincerely yours,

Laura Jens-Smith Town Supervisor



TOWN OF RIVERHEAD

RECYCLING PICK UP SCHEDULE 2020

Separation Yealle Against Town Board Catherine Kent Frank Seyrodt Jod Giglio Tim Habband Comingled - plantic containers with recycle emblem (#'s 1 & 2), glass, cans

https://Cardboard - news & copy paper, magazines, all cardboard products, phone books, books (hard covers removed)

Holiday - day of holiday there will be no service; remainder of week please follow your named schedule

Yard Waste unlimited paper bagged leaves & yard waste will be calleded on your normally scheduled bulk/yard waste day, but separately.

DO NOT USE OR INCLUDE PLASTIC BAGS IN RECYCLING OR LEAF DISPOSAL.

S.T.O.P. Program (hazardous waste drop off) May 30th & October 24th For more info, please cell Sanitalon Dept. 631-727-3200 ed. 391

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Proudly serviced by European American Waste Disposal



Town of Riverhead

INSTRUCTIONS FOR COMPLETION OF WASTE DISPOSAL LICENSE APPLICATION

The attached application must be completed, signed and notarized as indicated and submitted to the Sanitation Department at 200 Howell Avenue, Riverhead, New York 11901

The following MUST accompany the application:

- 1. Copies of all registrations of all vehicles used
- Copies of proof of insurance for all vehicles-as well as proof of liability insurance in the event of injury to persons or property. (Full Copy)
- 3. Copies of all driver's licenses of persons authorized to operate vehicles
- 4. County Health Inspection Report of all vehicles applying for Class 1 and Class 2 licenses
- Each application for license, except for Class 3, shall submit to the Town Clerk a list of all customers to be served in the Town of Riverhead including customer name, street number and name of post office.
- 6. Signed Release Statement-attached at the end of the application form
- 7. Payment of \$50.00 Application Fee for Class 1, 2, and 3 Licenses

ALL APPLICATIONS MUST COMPLY TO THE ABOVE, NO EXCEPTIONS WILL BE MADE. IN ADDITION, AS REQUIRED BY TOWN CODE, QUARTERLY REPORTS DETAILING COLLECTION INFORMATION MUST BE SUBMITTED TO THE SANITATION SUPERINTENDENT NO LATER THAN 30 DAYS FOLLOWING THE LAST DAY OF EACH QUARTER.

	YEAR:
FOR OFFICE	USE ONLY:
CLASS#: LICENSE FEE: STICKER FEE: APPLICATION FEE: TOTAL FEE:	
ACCOUNT#:	
TOWN OF RIVERHEAD APPLICATION FOR WASTE DISPOSAL LICENSE	Ĭ.
NAME OF COMPANY:	
ADDRESS:	
TELEPHONE:	
EMAIL ADDRESS:	
List persons having a financial interest in the above named firm:	
Name Address	Social Security #
TYPES OF LICENSES REQUESTED	
TYPES OF LICENSES REQUESTED (Check all licenses required)	
	erson who collects or not own, lease or occupy, emoving solid waste.
(Check all licenses required) Class 1 Licenses: Required of all persons engaged in the business of solid waste from premises defined as NON-RESIDENCES, including any peremoves solid waste from non-residence premises which he or she does whether or not such person is engaged in the business of collecting or re-	erson who collects or not own, lease or occupy, emoving solid waste. ck of collecting or removing lication Fee: \$50.00 PLUS
(Check all licenses required) Class 1 Licenses: Required of all persons engaged in the business of solid waste from premises defined as NON-RESIDENCES, including any person solid waste from non-residence premises which he or she does whether or not such person is engaged in the business of collecting or reformal Fee: \$250.00 PLUS Application Fee: \$50.00 PLUS \$50.00 each true. Class 2 Licenses: Required of all persons engaged in the business of solid waste from RESIDENTIAL premises. Annual Fee: \$250.00 PLUS Application Fee: \$250.0	erson who collects or not own, lease or occupy, emoving solid waste. ck of collecting or removing lication Fee: \$50.00 PLUS equired for a Class 2 License om any premises in the colition debris; land clearing removes such materials

<u>APPENDIX D - European American Award For All Six Residential Solid Waste CBAs For A Period Of Five Year From</u> January 1, 2018 Through December 31, 2022 - Resolution #594

08.01.2017 ADOPTED 170594

TOWN OF RIVERHEAD

Resolution # 594

AWARDS BID FOR RESIDENTIAL SOLID WASTE COLLECTION AND DISPOSAL SERVICES FOR THE RIVERHEAD REFUSE AND GARBAGE DISTRICT

Councilman Hubbard offered the following resolution,

which was seconded by Councilman Dunleavy

WHEREAS, the Town Board of the Town of Riverhead, by Resolution #434 adopted on June 6, 2017, authorized the issuance of a Notice to Bidders for the Residential Solid Waste Collection and Disposal Services for the Riverhead Refuse and Garbage District (Contract Bid Areas A-F); and

WHEREAS, pursuant to the terms of the bid request, each proposal must comply with the instructions in the Notice to Bidders and required that all proposals be submitted on or before 4:00 pm on July 27, 2017 and

WHEREAS, six (6) responses to the bid request were received, opened and read aloud on July 28, 2017 at 11:00 am in the office of the Town Clerk, 200 Howell Avenue, Riverhead, New York; and

WHEREAS, the Town Engineering Department and Office of the Town Attorney did review and evaluate the bid proposals; and

WHEREAS, after serious consideration and evaluation, the Town Engineering Department and Office of the Town Attorney recommend that the Town Board deem European-American Waste Disposal Corporation to be the lowest responsible bidder for all six contract bid areas (Contract Bid Areas A through F) based upon the base bids (Contractor responsible to deliver solid waste to a permitted recyclables processing facility for processing and marketing as recovered materials); and award the bid for said contract areas to European-American Waste Disposal Corporation subject to terms and conditions set forth in bid specifications/contract.

NOW THEREFORE BE IT RESOLVED, that the Town Board of the Town of Riverhead, acting as the governing body of the Town of Riverhead Refuse and Garbage District, deems European-American Waste Disposal Corporation to be the lowest responsible bidder for contract bid areas A through F based upon the base bids and hereby awards the bids for all contract areas to European-American Waste Disposal Corporation based upon the base bid and subject to terms and conditions set forth in bid specifications/contract, including but not limited to, compliance with prevailing wage rates set annually by the New York State Commissioner of Labor, performance security, insurance, as set forth in the bid specifications/contract; and be it further

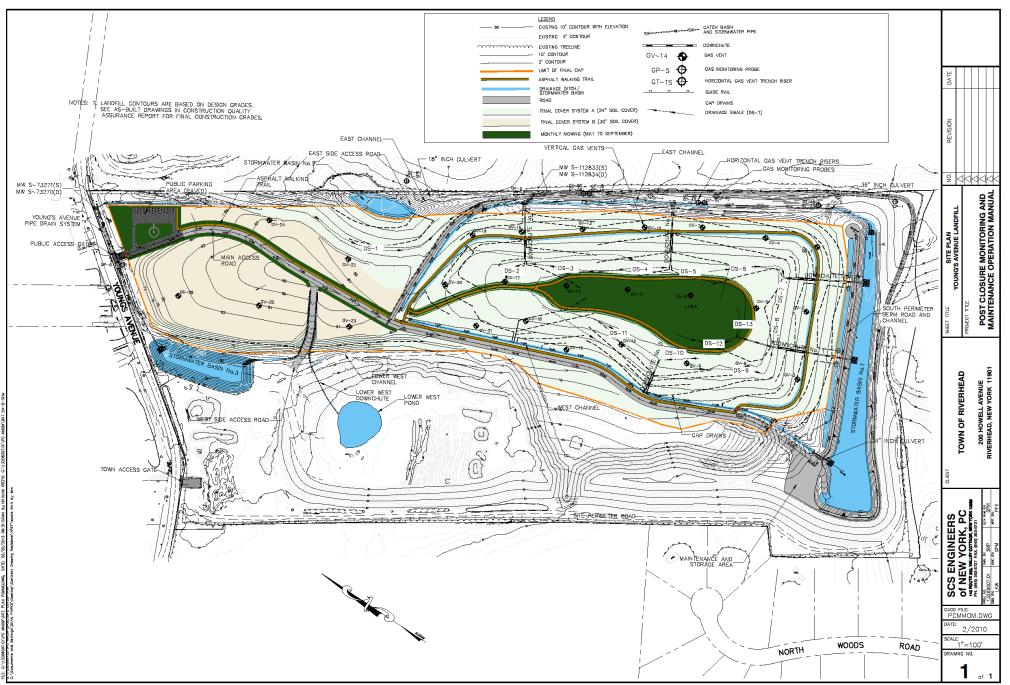
RESOLVED, that the Town Board be and does hereby authorize the Town Clerk to return any and all bid bonds received in connection with the above; and be it further

RESOVLED, that the Town Board be and does hereby authorize the Supervisor to execute any documents or agreements, to the extent required, with European-

APPENDIX E – Suffolk Recycles Flyer

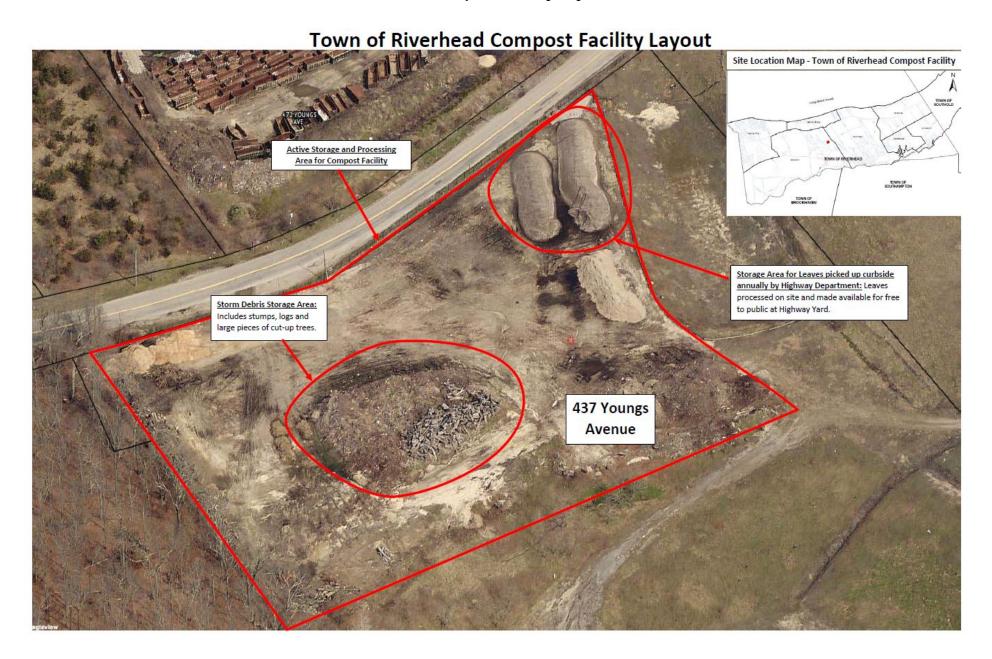


APPENDIX F - Site Plan, Young's Avenue Landfill





APPENDIX H - Compost Facility Layout



APPENDIX M - Town of Riverhead Solid Waste Management Intent - Town Code 273-2

§ 273-2 Purpose; findings; construal of provisions.

The purpose of this chapter is to protect and promote the health, safety and welfare of the residents of the Town of Riverhead by controlling the storage and disposal of solid waste generated within the Town in the most economical and environmentally acceptable manner; provide for the orderly collection of solid waste; implement the Town of Riverhead Solid Waste Management Plan; comply with the requirements and further the purposes of the New York State Solid Waste Management Act; and to protect the drinking water supply in the Town of Riverhead. In addition, the Town Board finds that increased efforts to recover and reuse recyclable materials will protect and enhance the Town's physical environment and promote the health and safety of persons and property within the Town. The provisions set forth herein seek not only to facilitate the implementation and operation of an environmentally sound solid waste management program and conservation of natural resources but to promote the recovery of materials from the Town's solid waste stream for the purpose of recycling such materials by source separation. Accordingly, the Town Board finds it is necessary to expand the Town's recycling program to provide opportunities for nonresidential, commercial, industrial and institutional establishments to recycle. Nothing herein is intended or should be construed to modify or amend any terms or conditions of any contracts for solid waste services to which the Town of Riverhead is a party in effect on the effective date of this chapter.

APPENDIX N – Implementation Schedule

Town of Riverhead Solid Waste Management Plan - 10 Year Implementation Schedule Time Period: 2020 - 2029 Responsible Party																				
Town of Riverhead - Sanitation Department	Jan. Feb. Mar. Apr. May																			
2020 2020 2020	Jan. Feb. Mar. Apr. May 2021 2021 2021 2021 2021	Jun. Jul. Au 2021 2021 202	ug. Sep. Oct. Nov. Dec. Jan 121 2021 2021 2021 2021 2021 2021	Feb. Mar. Apr. May Jun. Jul. Aug. 2 2022 2022 2022 2022 2022 2022 2022	Sep. Oct. Nov. Dec. Jan. 2022 2022 2022 2022 2023	Feb. Mar. Apr. May Jun. Jul. Aug. 2023 2023 2023 2023 2023 2023 2023	Sep. Oct. Nov. Dec. Jan. 2023 2023 2023 2023 2024	Feb. Mar. Apr. May Jun. Jul. Aug. 2024 2024 2024 2024 2024 2024 2024	Sep. Oct. Nov. Dec. Jan. 2024 2024 2024 2024 2025	Feb. Mar. Apr. May Jun. Jul. Aug 2025 2025 2025 2025 2025 2025 2025 2025 2025	Sep. Oct. Nov. Dec. Jan 5 2025 2025 2025 2025 202	6 2026 2026	Apr. May Jun. Jul. Aug. 2026 2026 2026 2026 2026	Sep. Oct. Nov. Dec. Jan. Feb. Mar. 2026 2026 2026 2026 2027 2027 2027	Apr. May Jun. Jul. Aug. 2027 2027 2027 2027	Sep. Oct. Nov. Dec. Jan. Feb. Ma 2027 2027 2027 2027 2028 2028 2028	rr. Apr. May Jun. Jul. Au _l 28 2028 2028 2028 2028 2028 202	g, Sep. Oct. Nov. Dec. Jan. Feb. M 8.8 2028 2028 2028 2029 2029 20	r. Apr. May Jun. Jul. Aug. Sep. Oct. 29 2029 2029 2029 2029 2029 2029 2029	Nov. Dec. 2029 2029
Seneral WMP Finalize SWMP DEC Review (November 2020)																				
Address DEC Comments Submit Final Draft to Town Board Riverhead Adoption of new SWMP																				
Draft Resolution for Adoption of new SWMP Present Resolution for adoption of new SWMP at Town Board Meeting Public Notice and comment period																				
Finalize SWMP Incorporate comments Submit Final Plan																				
Reporting Biennial Compliance Report Staff																				
Hire SW Coordinator Laws and Legislation Periodic Review of Legislation and Overall Program																				
Analyze need for regional IMA Review and track pertinent legislation Enforcement																				
Hold quarterly meetings with Code Enforcement Finance Contracts																				
Review contracts to implement economic and operational efficiencies Review facility contracts Establish a 501 c3																				
Board reviewing by-laws Hold public hearing; advertise dates Work Sessions and prepare resolution																				
Hold Board meeting for vote Assign Staff for training session Identify foundations for applications																				
Apply for funding Continue to research/apply for funding as 501 c3 Continue to Apply for Standard Government Grants (DEC, EPA, EFC, etc.)																				
Review of available grants and summarize opportunities in memorandum Renewable Energy Opportunities Assess potential to incorporate alternative energy production into project (solar/geothermal/wind)																				
Partner with Towns to analyze local landfills for energy production (gas/solar/geothermal) Education and Outreach Continue to Expand Education & Outreach Initiatives																				
Assess current outreach initiatives for potential improvement and expansion Exhibit or present at two events per year that provide us the opportunity to provide information about the Towns' facilities, programs and services																				
Create/enhance resources for schools and, such as posting resources on website, list serve, posters, decals, signage, promotional materials and incentive programs Evaluate printed material and identify potential updates																				
Website Utilization Post all available resources on website in categories for residential, businesses, schools and lega sectors																				
Update website to be the primary source for information to the public Utilize website for communications, surveys, requests for tours and presenters Post availability of tours and presenters on website and through targeted mailings																				
Annual Riverhead Recycles Award Program Identify organizations, agencies, businesses, institutions, and government entities that demonstrate excellence in recycling and/or waste prevention Continue to hold Annual Awards Program to showcase three success models																				
Continue to hold Annual Awards Program to showcase three success models Environmental Day Host Annual Environmental Day at Stotzky Park Continue to promote the Towns' facilities and programs available to the public to create more																				
Continue to promote the Towns' facilities and programs available to the public to create more awareness and increase participation Continue to increase the number of local environmental exhibitors, vendors, demonstrations and other activities the bring value to attendees																				
Support Local, State and National Organizations Created to Promote Reduction, Reuse, and Recycling Create list of organizations (name, purpose, meeting dates, events) Maintain active participation																				
Waste Wise Program Conduct semi-annual meetings Evaluate methods to increase participation/membership																				
Evaluate methods to increase participation/membership Evaluate cross-over opportunities with EPA Program Recyclables and Waste Reduction Increase Participation and Recyclables																				
Partnership with the Town of Islip Contract Development Meetings with Facility Operator																				
Residential Participation Meet with officials of one civic association each year to understand unique challenges such																				
as cultural, lingual, and demographics Attend civic association round table meetings with these communities to develop a plan for improved participation Track participation within identified communities/neighborhoods, in response to outreach modification																				
Multi-Family Participation Meet with property owner/building management of one major subdevelopment each year to understand unique challenges to participation																				
Schedule work sessions with property owner/building management to develop a plan for improved participation Track participation within complex, in response to outreach modification																				
Schools (K-12) Create/Update database of public schools by district and private, contacts and waste handling practices Meet with representative of one public or private school annually to determine challenges/needs, such as																				
student/staff participation, collection contract, food and custodial services, equipment, funding, and education Schedule meetings with school officials, staff, teachers, and students to develop a plan for improved																				
participation Develop system to track ROI (participation, education, attendance at meetings, programs offered at schools, reduction)																				
Track ROI Commercial/Institutional Create/Update database of commercial & institutions, contacts and waste handling practices																				
**Determine challenges/needs, such as employee participation, collection contract, housekeeping services, equipment, funding, and training **Develop a plan to increase participation																				
Develop program to track ROI Track ROI Town																				
Create/Update database of all municipal facilities, contacts and solid waste practices Meet with staff to determine challenges/needs, such as employee participation, collection contract, housekeeping services, equipment, funding, and training Schedule meetings with staff to develop a plan to increase participation																				
Develop program to track ROI Track ROI Partnerships																				
Seek out new partnerships with local wineries and breweries to develop a glass recycling market Yard Waste Composting - Increase Participation at Facilities and Promote Back-Yard Composting Efforts Data Collection and Efficiencies																				
Evaluate and implement means of capturing tonnage data from home composters Evaluate improvements to residential drop off procedures Increase Participation and Back-Yard Composting																				
Evaluate best methods for education public on composting Schedule meetings to discuss initiatives for increasing yard waste composting (residents, Cornell extension, SCSWCD)																				
Attend 2 Cornell Cooperative Extension meetings per year Make presentation to Cornell once per year Food Scraps Recycling - Evaluate Incorporating Into Program																				
Feasibility Identify residential, commercial and industrial generators and determine available tonnage Research existing food recycling programs to identify keys elements, lessons learned & economics																				
Research end-use options for recycled food waste **Out of Town partnering opportunities																				
Research collection and Transportation options **Town haulers, specialty haulers, pick-up frequency, products to include paper, bins & storage options Economic Analysis Evaluator regional program																				
Evaluate regional program Implement pilot program for Town Program Implementation Identify commercial/institutional facilities for program.																				
Identify commercial/institutional facilities for program Audit facilities to gather information for program components Develop program components Implement Program																				
Implement Program Public Spaces Recycling Parks, Sports Fields, Municipal Curbside Enumerate and map potential sites for implementation of initiatives by recyclable component																				
Enumerate and map potential sites for implementation of initiatives by recyclable component (paper/container/food) Rank potential areas for best implementation Create pilot program at highest ranked location																				
Special Events Enumerate and map potential sites for implementation of initiatives by recyclable component (paper/container/food)																				
Rank potential areas for best implementation Create pilot program at highest ranked location Develop "kits" or "checklists" for event planners																				
Materials Recovery Household Hazardous Waste Collection Continue HHW Collection																				
Continue Semi-annual S.T.O.P. events for public drop-off E-Waste Collection Continue operation of E-waste container at yard waste facility																				
Continue Coordination with Pharmaceutical Take-Back Programs Continue to work with pharmacies, hospitals, and medical professionals on ways to increase take-back tonnage Continue take back events and drop box locations																				
Continue outreach programs in local schools and retirement communities to educate and promote take back locations and events Scrap Metal																				
Data Collection and Efficiencies Review permit process and reporting requirements Identify and meet with scrap metal haulers and facilities																				
Develop data collection procedures Deconstruction Implementation & Expansion Evaluation																				
Research existing programs and reuse opportunities and report options to Town Board Meet with contractors/unions Conduct cost-benefit analysis to determine feasibility of Town operated program																				
Reuse Implementation & Expansion Evaluation Research existing programs and reuse opportunities and report options to Town Board to increase																				
reuse infrastructure within Planning Unit Develop list of regional reuse options and add to website Attend County recycling meetings Partnerships																				
Partner with local businesses which distribute consumer products for reuse Product Stewardship																				
Promotion and Support Review national and state initiatives and report findings to Town Board Work with State and Industry																				
Work with State and industry Join Product Stewardship Council and attend one meeting per year Suy Recycled Promotion and Support																				
Add and maintain current information on website Pata Collection and Alternative Disposal Data Collection and Operations																				
Meet with operators of disposal facilities to discuss options to remove C&D materials from landfilled tonnage Device any limitary plan and evaluate alternative for C&D handling, recycling, and disposal.																				
Audit waste stream to determine if an increase diversion rate is achievable (potential recyclables in waste stream)																				
Collect Data from theFood Scraps pilot test. Alternatives Evaluate Alternative Transportation Methods (i.e.) Rail Barge, etc.																				
Review past initiatives																				
Update implementation schedule																				

04.05.2022 ADOPTED

TOWN OF RIVERHEAD

TB Resolution 2022-272

ADOPT TOWN OF RIVERHEAD LOCAL SOLID WASTE MANAGEMENT PLAN UPDATE

<u>Councilman Beyrodt Jr.</u> offered the following resolution, which was seconded by <u>Councilman Rothwell</u>

WHEREAS, by Resolution #956 adopted on October 8, 2009, the Town Board authorized the Supervisor to execute a professional services agreement with Cashin Associates, PC to draft a Local Solid Waste Management Plan (LSWMP), comprehensive Recycling Analysis, and other services related to solid waste planning and engineering; and

WHEREAS, Cashin Associates, P.C. did submit a draft LSWMP to the New York State Department of Environmental Conservation (NYS DEC) within the time parameters set forth by the NYS DEC and thereafter and over the span of several years the Town Engineering Department and Cashin Associates did work with the NYS DEC to revise the draft LSWMP, adopt changes to Town Code Chapter 273 "Solid Waste Management" and Contract for Residential Solid Waste Collection and Disposal Services; and

WHEREAS, over the years numerous regulations were amended and implemented by the NYS DEC requiring the Town Engineer to begin anew and consult with the NYS DEC on revisions to make certain the draft LWSMP and eventual final LSWMP addressed the changes in laws, rules and regulations impacting solid waste and recycling; and

WHEREAS, the Engineering Department did submit a proposed draft LSWMP and later final LSWMP for consideration by the NYS DEC and by letter dated December 17, 2021, the NYS DEC determined that the Town's LSWMP provides substantive consideration of the elements set forth in New York State Environmental Conservation Law, (Section 27- 0107) and the State's Solid Waste Management Facilities regulations (6 NYCRR Part 366-2), and constitutes an approvable plan with final approval granted upon filing of a complete, stand-alone final LSWMP which contains all revisions to the draft LSWMP resulting from department review and as required by 6 NYCRR 366-4.1, a certified resolution from the Town stating: 1) that the LSWMP is adopted by the Town, 2) that the Town will implement and maintain the solid waste management system as described in the final LSWMP and 3) that the Town will submit biennial updates; and

WHEREAS, pursuant to 617.4 (b)(1) of SEQRA, the adoption of a Solid Waste Management Plan is a Type 1 action;

WHEREAS, on June 2, 2021 the Town of Riverhead Town Board adopted Resolution 2021-378, initiated coordinated review to involved agencies requesting they assume Lead Agency status; and

WHEREAS, no involved agencies requested to be Lead Agency; and

WHEREAS, the Planning Department has prepared the Environmental Assessment Forms Parts 1, 2, and 3 finding the adoption of the LSWMP will have no significant adverse environmental impacts. Now, therefore, be it

RESOLVED, that the Town of Riverhead Town Board assumes Lead Agency Status for the purpose of SEQRA; and be it further

RESOLVED, that the Town of Riverhead Town Board, as Lead Agency, finds the adoption of the LSWMP will result in no significant adverse environmental impacts and be it further

RESOLVED, that as required by 6 NYCRR 366-4.1, the LSWMP is hereby adopted by the Town of Riverhead; and be it further

RESOLVED, that the Town of Riverhead through its Engineering Department will implement and maintain the solid waste management system as described in the final LSWMP; and

RESOLVED, that the Town of Riverhead through its Engineering Department will submit biennial updates; and

RESOLVED, that the Town Clerk is hereby directed to forward a copy of this resolution to hereby directed to forward copies of this resolution to Town of Riverhead Water District, the Financial Administrator and the Office of the Town Attorney; and be it further

RESOLVED, that all Town Hall Departments may review and obtain a copy of this resolution from the electronic storage device and, if needed, a copy of same may be obtained from the Office of the Town Clerk.

THE VOTE

RESULT: ADOPTED [UNANIMOUS]

MOVER: Frank Beyrodt Jr., Councilman

SECONDER: Kenneth Rothwell, Councilman

AYES: Aguiar, Hubbard, Beyrodt Jr., Rothwell, Kern