

Rappahannock Regional Solid Waste Management Board

Annual Financial & Operational Report



Fiscal Year
2018





Rappahannock Regional Solid Waste Management Board

489 Eskimo Hill Road • Stafford, Virginia 22554 • 540-658-5279 • FAX 540-658-4523

Contents

R-Board Members.....	3
Figures and Tables	4
Mission and Vision	5
Virginia Environmental Excellence Program.....	6
Operational Overview.....	7
Regulatory Overview.....	10
Employee Achievements and Accolades	11
Operational and Financial Performance	13
Residential Usage Fee	13
Flow Control.....	16
Financial Summary (Unaudited)	17
Weight and Material Summary.....	18
Portfolio Composition.....	19
Recycling and Diversion	20
Household Hazardous Waste Collection.....	22
Litter Control.....	23
Outreach and Education	25
R-Board Website Activity	27
Appendix	29



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Figures and Tables

	Figure	Page
1.1	Residential User Fee Revenue	13
1.2	Residential User Fee Revenue	13
2.1	User Fee Type Revenue	14
2.2	User Fee Type Transaction	14
3.1	Revenue Location Distribution	15
3.2	Transaction Location Distribution	15
4.1	Revenue from Major Commercial Customers	16
4.2	Tons from Major Commercial Customers	16
5.1	Investment Portfolio Value	19
5.2	Portfolio By Asset	19
6	Recycling Revenue July 2016- July 2018	21
7	HHW Participation	22
8	FY2018 Cleanup Hours	24
9	Litter Removed From Roadways	24
9.1	Total Page Views	27
9.2	Website Sessions	27
9.3	Top Five Webpages	28

	Table	Page
1	Residential User Fee Revenue and Transaction	14
2	Financial Summary (Unaudited)	17
3	Weight and Material Summary	18
4	Portfolio Composition	19
5	HHW Collection Totals	22



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Mission and Vision

R-Board Mission

The mission of the Rappahannock Regional Solid Waste Management Board (R-Board) is to provide professional, courteous, and intelligent service and solutions to the waste disposal needs of citizens residing in Stafford County and the City of Fredericksburg.

R-Board Vision

The R-Board's vision is to operate the best landfill in Virginia. Being the best landfill includes environmentally sound solid waste management policies and having an active Reduce, Reuse, and Recycling program, all coupled with outstanding customer service. The R-Board intends to continually strive to be a leader in the waste management industry and to set the example for others to emulate.



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Virginia Environmental Excellence Program

The R-Board Regional Landfill remains an E3 certified facility within the Virginia Environmental Excellence Program administered by the VA Department of Environmental Quality. In order to be qualified as an exemplary environmental enterprise, a facility must have a good compliance history, a fully implemented environmental management system, and demonstrated performance.





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Operational Overview



The R-Board was approached by Stafford County to assist in a clean-up of a parcel of property that the County wanted to purchase for the expansion of the Crow's Nest Preserve. Private sector proposals for this clean-up exceeded \$50,000. Staff from the Regional Landfill took the lead on the clean-up with the help of several other County Departments (Utilities; Sheriff; and Parks).

Kruckenburger Service and the Virginia Department of Corrections, Camp 21 provided additional support.



Pictured at left is the area after clean-up. The property successfully passed the environmental hazard review by the State and the property acquired on behalf of Crow's Nest Preserve. The work was completed for under \$15,000.





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Following the extreme precipitation events this year, many areas become inundated with vegetative debris flowing down the Rappahannock River.

Pictured at left is Falmouth Beach, one of the areas hardest hit by floodwaters. The R-Board assisted other County departments in the clean-up. There were approximately 90 loads of material hauled from the beach totaling about 410 tons.



As shown to the left, the debris was stockpiled for burning rather than being landfilled, to decrease the amount of airspace consumed. Contamination of the debris precluded conversion into mulch.



Cell F-3 is scheduled to begin construction in 2020. Staff has begun excavating dirt from the Cell F3 site for use as daily cover.

Pictured to the left is the area where Cell F-3 will be located.



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When the Belman Road Recycling Center is open, you never know who might just make an appearance there.



Pictured to the left is Richard Williams in one of his many Holiday outfits. Richard has received many accolades from residents using the Belman Road Recycling Center.



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Regulatory Overview

The R-Board maintains a number of permits with the VADEQ and federal regulatory agencies. It remains in good standing with each of these permits. These permits include the Solid Waste Permit (SWP) that covers groundwater, landfill gas, and leachate monitoring programs; Title V Air Permit that covers air pollution per the Clean Air Act; Virginia Pollution Discharge Elimination System (VPDES) that covers stormwater; and U.S. Fish and Wildlife Bird Depredation Permit.

Solid Waste

Staff received approval from VADEQ to increase daily tonnage from 800 tons/day to 1,200 tons/day due to solid waste increases resulting from flow control. We are also working with the VADEQ to change the facility boundary to include the VDOT parcel that was purchased last year, and adjust the operating hours in the permit to match current practice. Staff recently updated procedures for handling unauthorized waste.

The presumptive remedy for the minor groundwater contamination remains pending with the VADEQ. Meanwhile, regular sampling of the groundwater indicates that the concentrations of the chemical concern achieved the remedial goal several years ago.

Title V Air Emissions

There were no amendments or other changes to the air permits this year. The facility remains in compliance with its state and federal permits.

Stormwater

Sampling is required twice each year at a minimum,. Field measurements indicate that the naturally occurring runoff is quite acidic. Staff is working on implementing some best management practices to neutralize the water before it flows into adjacent streams and off of R-Board property. Staff received recommendations to sample more than twice per year in order to average the results.

The Regional Landfill must comply with numerous additional state and federal regulations requiring constant vigilance and continuing education of our staff. We periodically review procedures to better position our operations to stay in compliance. We recently began using smaller diesel tanks positioned closer to the active portion of the landfill to reduce the potential for a major spill. As an additional benefit, we are experiencing reduced maintenance costs for access roads, and more efficient use of staff and equipment time.



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Employee Achievements and Accolades

The R-Board continues to encourage and support employees as they seek certifications and continuing education to improve their skills and knowledge. The following employees have achieved certifications, attended classes, or attended/presented at Seminars:

- Rick Markwardt – Renewed Waste Management Facility Operator II License; Webinars and Technical Sessions: SCS Engineering Annual Virginia Landfill Technical Session, Mid-Atlantic Composting and Compost Use (Composting Management: Water, Problem Feedstocks), How to extend the life of your landfill through process improvement, What’s Ahead for Solid Waste Management.
- Diane Jones – Presented: “Sustainable Packaging” (Sustainable Solutions Conference hosted jointly by Virginia SWANA and Virginia Recycling Association) and “Public Perceptions in Solid Waste Management” (the University of Mary Washington/Marstel-Day Waste Symposium); Certification: Best Practices in Cashiering Certification; Webinars: Plastic Bag Legislation (NRC), Future of Solid Waste (EPA), Preparing for China’s Waste Ban, China’s Green Sword, Impacts on State and Local Governments (EPA), National Sword How Will it Impact My Program (NRC), Hazardous Waste Generator Improvements Rule (EPA), Reducing Food Going to Waste (EPA), Cleaning up Recycling Operations in China (Resource Recycling),
- Susie Carpenter –Attended: Joyce Engineering Class I Basic Training Course & Class 2 Landfill Training Course; Received Waste Management Facility Operator II License; Certification: Best Practices in Cashiering Certification, 10 Hour OSHA Safety Training Class.
- Floyd Bloxton – Received/Renewed multiple ASE certifications relating to repair and maintenance of heavy equipment, heavy trucks, and automotive systems.
- David Schneider – Received Class “A” CDL with tanker endorsement.
- Sofia Gilani - Attended: Joyce Engineering Class I Basic Training Course & Class 2 Landfill Training Course

The following employees were promoted:

- Susan Carpenter to Scale Supervisor
- Cody Dickerson to Heavy Equipment Operator

The R-Board appreciates and recognizes the following employees for their years of dedicated service prior to their retirements:

- Robert Walker –33 years
- Jerry Fleming –11 years, 4 months



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The R-Board appreciates and recognizes the following employees for significant milestones of their years of service:

- Michael Cross – 3 years
- Sky Lerner – 3 years
- Richard Williams – 3 years
- Susan Carpenter – 5 years
- Keith English – 5 years
- Diane Jones – 10 years
- Floyd Bloxton – 30 years

The R-Board recognizes and welcomes the following employees hired in FY2018:

- David Schneider
- Douglas Webster
- Hope Mikelson
- Barbara Miller
- Michael Wolfrey

Steve Pekary joined our staff on July 11, 2011 as a Heavy Equipment Operator II, helping out on the working face, hauling boxes from our satellite sites, and finally, assisting in the scale house. Mr. Pekary was also the Landfill Safety Representative in conjunction with other Stafford County departments. Steve Pekary medically retired with a celebratory luncheon in December 2017. Unfortunately Mr. Pekary passed away in May 2018. He will be missed and remembered by all.



Steve Pekary, Wildflowers on the Landfill



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Operational and Financial Performance

Residential Usage Fee

Residential fee sales remained steady in FY2018, with customers exercising the many options to acquire passes. Revenues dipped slightly from FY2017, continuing the trend of previous years. Staff believes this is due to some residents switching to curbside trash collection when the option of free disposal was eliminated. The total revenue of \$583,156 collected is just under 3% below the budgeted revenue of \$600,000 for FY2018.

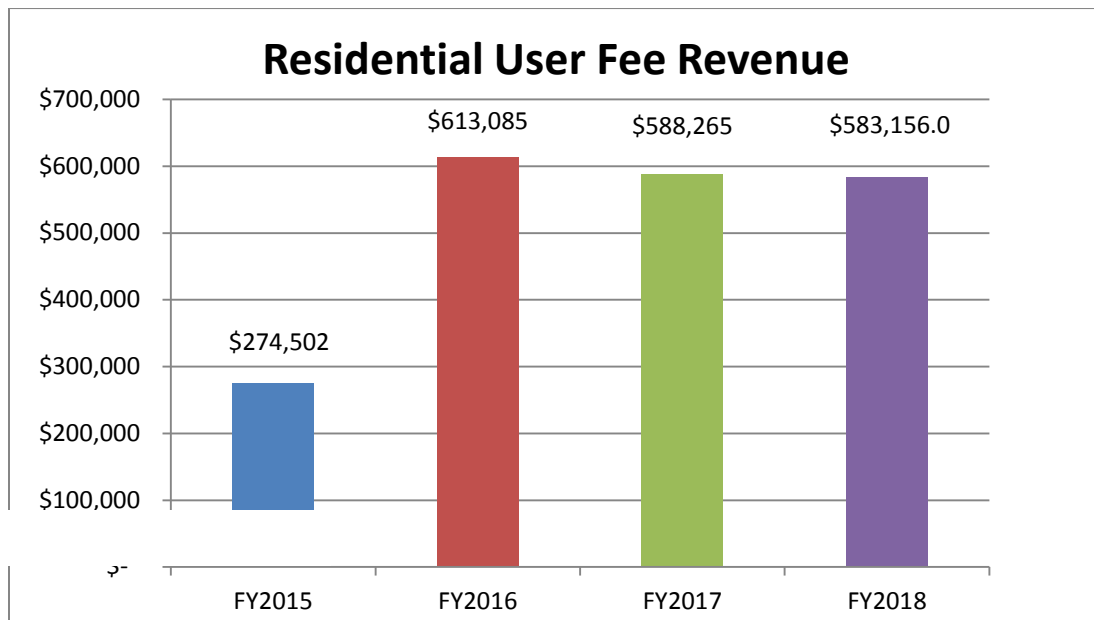


Figure 1.1

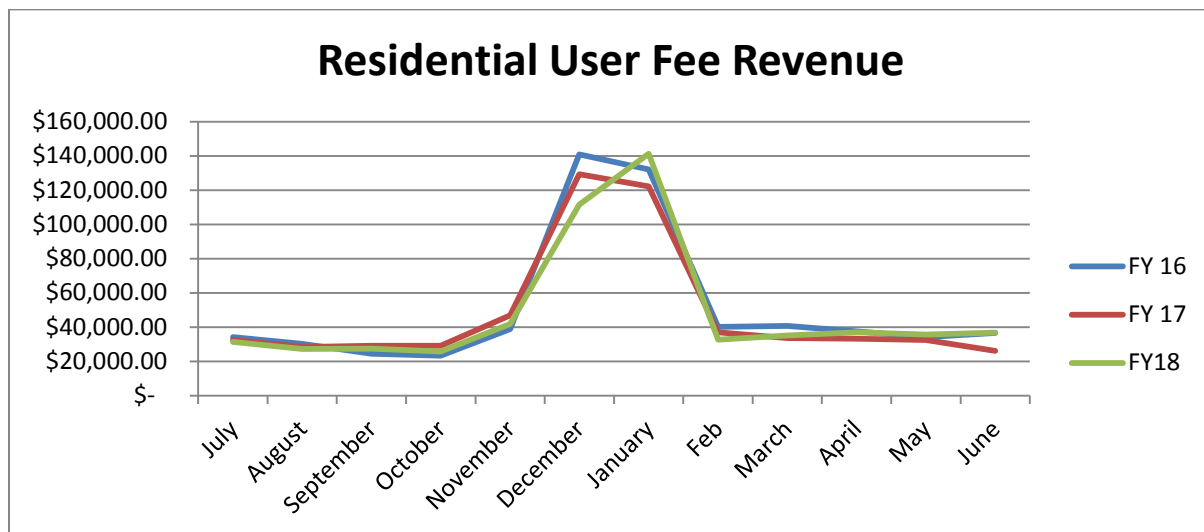


Figure 1.2



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The R-Board offers our residents three standard options to access the resident convenience centers; annual pass (\$100), 10-trip coupon book (\$30), and one-visit pass (\$4). As shown in Table 5 and Figures 2.1 and 2.2 below, while annual passes are the single largest revenue source, one-visit passes generate the bulk of our transactions.

Type	Revenue	Transactions
Annual Passes	\$ 251,900	2,519
Coupon Books	\$ 129,960	4,332
One Visit Passes	\$ 162,716	40,679
Other Cash Collection	\$ 38,580	1,929
TOTAL	\$ 583,156	49,459

Table 1

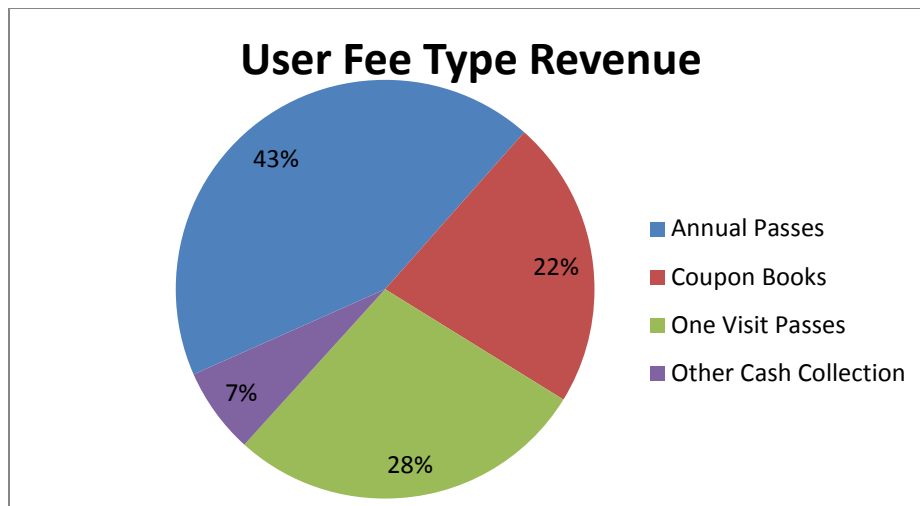


Figure 2.1

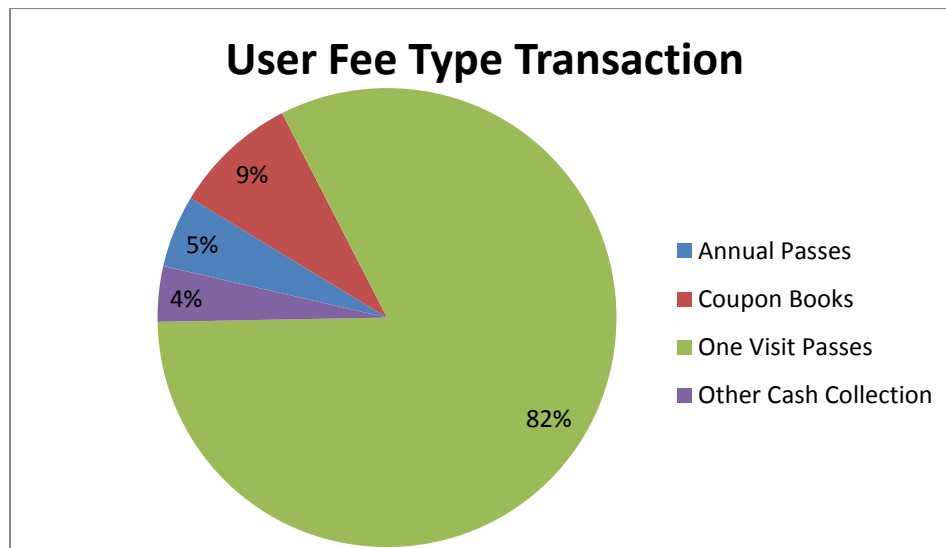


Figure 2.2



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Resident fee collections occur at five locations. Revenue collected at the Eskimo Hill location accounts for 77% of our total revenue, while accounting for 96% of the transactions. Our customers wishing to dispose of solid waste themselves strongly favor using the Eskimo Hill site to purchase passes. The remaining 4% of transactions are distributed between the Stafford County and City Treasurer, R-Board Office, and Web sales.

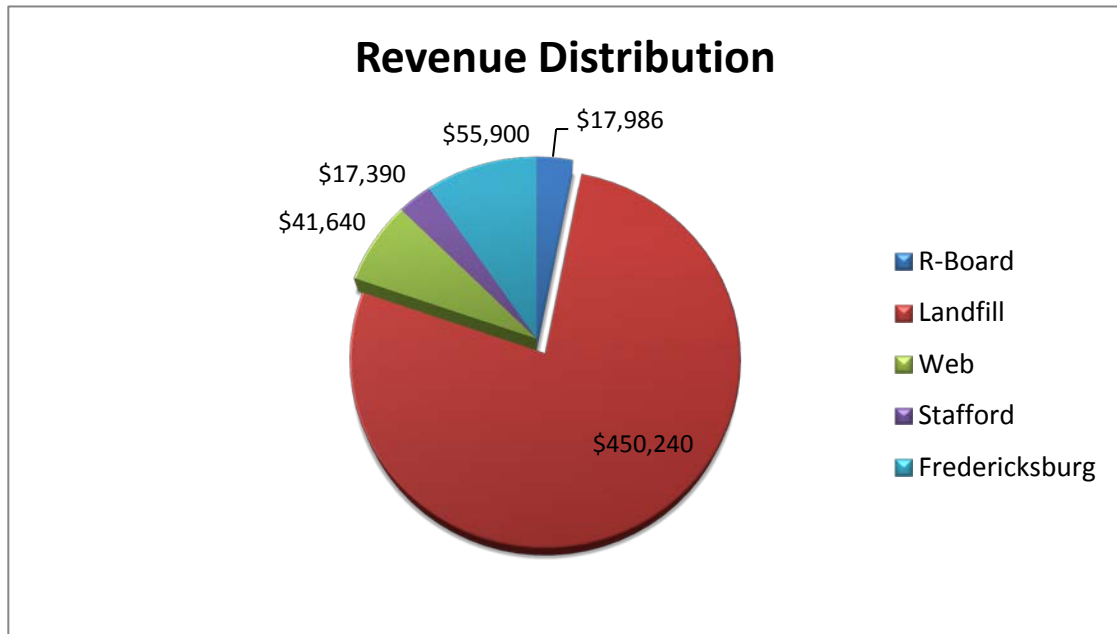


Figure 3.1

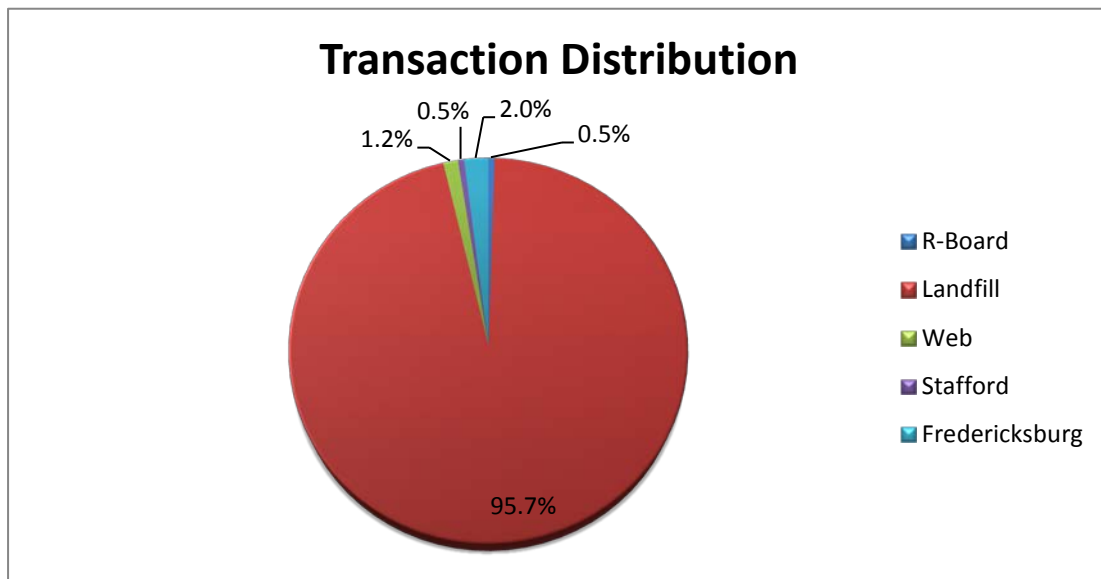


Figure 3.2



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Flow Control

The Landfill continues to experience strong revenue growth as a result of flow control, with our customers exhibiting conformance with this requirement.

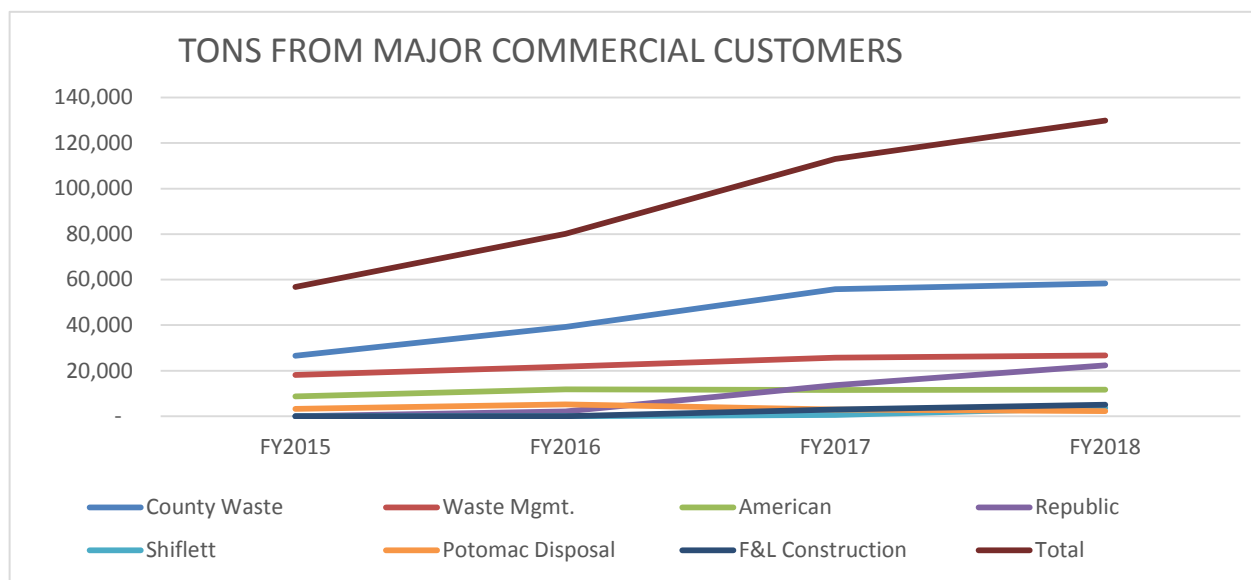
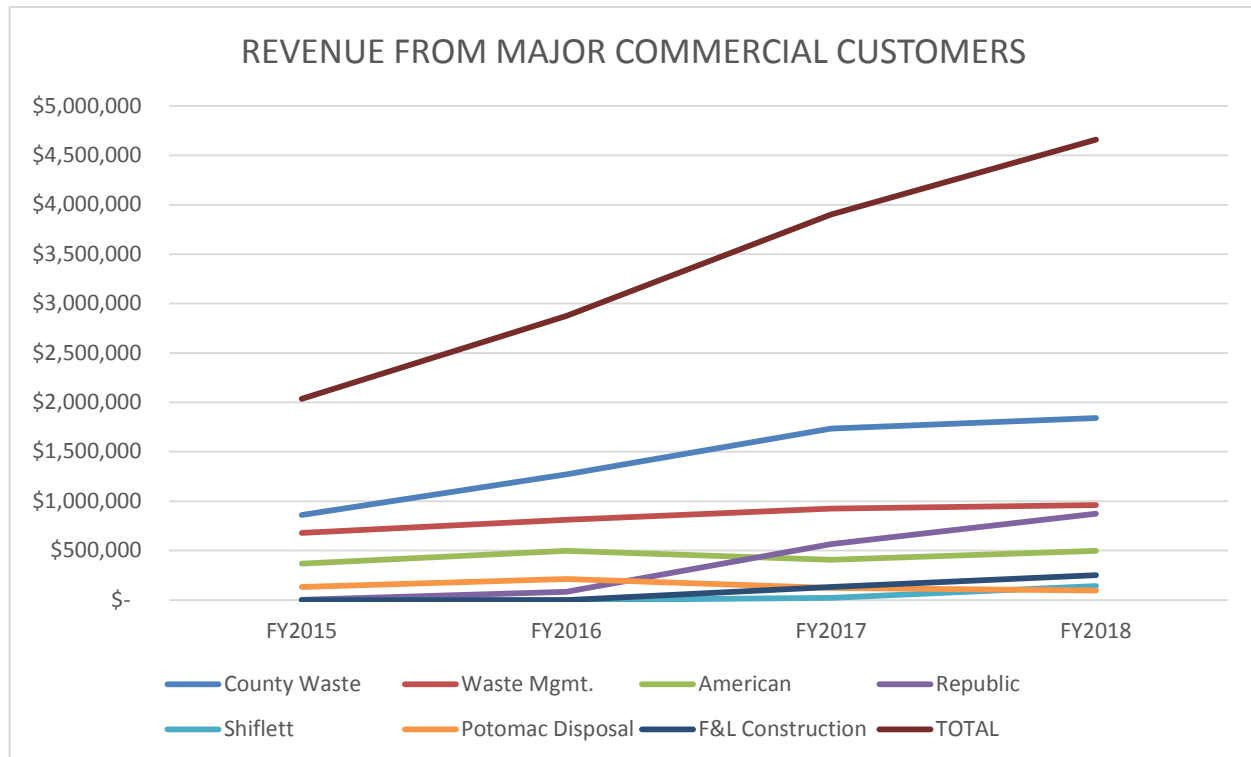


Figure 4.2



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Financial Summary (Unaudited)

	Adopted FY18	Actuals	Under/Over
Commercial	\$4,500,000	\$6,560,638	46%
Resident User Fees	\$600,000	\$583,156	-3%
Recycling	\$120,000	\$195,660	63%
Sludge/Utilities	\$434,240	\$449,605	4%
Municipal	\$278,000	\$263,658	-5%
Sale of Landfill Gas	\$40,000	\$44,330	11%
Miscellaneous	\$5,000	\$22,399	348%
Milestone Lease	\$12,000	\$4,480	-63%
Grants	\$20,000	\$25,691	28%
Interest	\$15,000	\$69,585	364%
Reserve Fund	\$0	\$0	0%
TOTAL	\$6,024,240	\$8,219,202	36%

Table 2



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Weight and Material Summary

CATEGORY	FY2018 Weight (in Tons)	FY2017 Weight (in Tons)	% Difference
Billable			
Commercial Waste	62340	45738	36%
Residential Waste	37250	46177	-19%
Fredericksburg	7986	8743	-9%
Eskimo Hill	19861	18843	5%
Belman Road	1649	1880	-12%
Mixed Load-\$71/T	110	194	-43%
Debris Waste	71263	53204	34%
Dirt	2288	244	838%
Tires Commercial	472	243	94%
Sludge (city)	5175		N/A
Sludge (county)	11277	11384	-1%
BILLABLE TONNAGE	219671	186650	18%
Non-Billable			
Litter/Cleanups	152	227	-33%
Recycling	8003	5664	41%
TOTAL TONNAGE	227826	192541	18%

Table 3



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Portfolio Composition

Security Type	30-Jun-18	% of Portfolio
U.S. Treasuries	\$2,026,789	
Federal Agencies	\$2,380,210	27.60%
Commercial Paper	\$693,464	8.10%
Corporate Notes / Bonds	\$1,108,663	12.90%
Certificates of Deposit	\$1,348,427	15.70%
Money Market Fund	\$962,982	10.80%
Municipal	\$119,822	1.40%
TOTAL	\$8,608,335	100.00%

Table 4

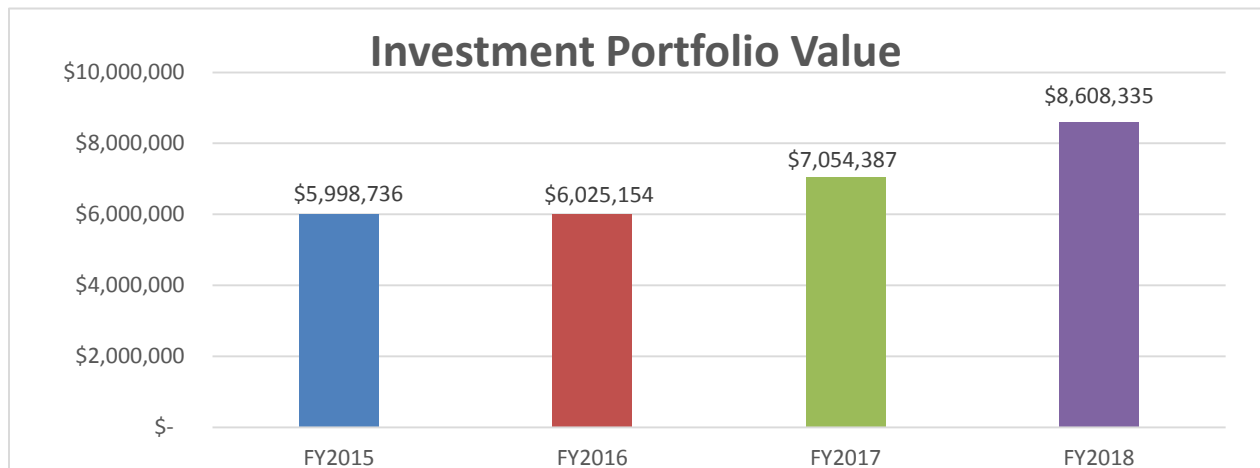
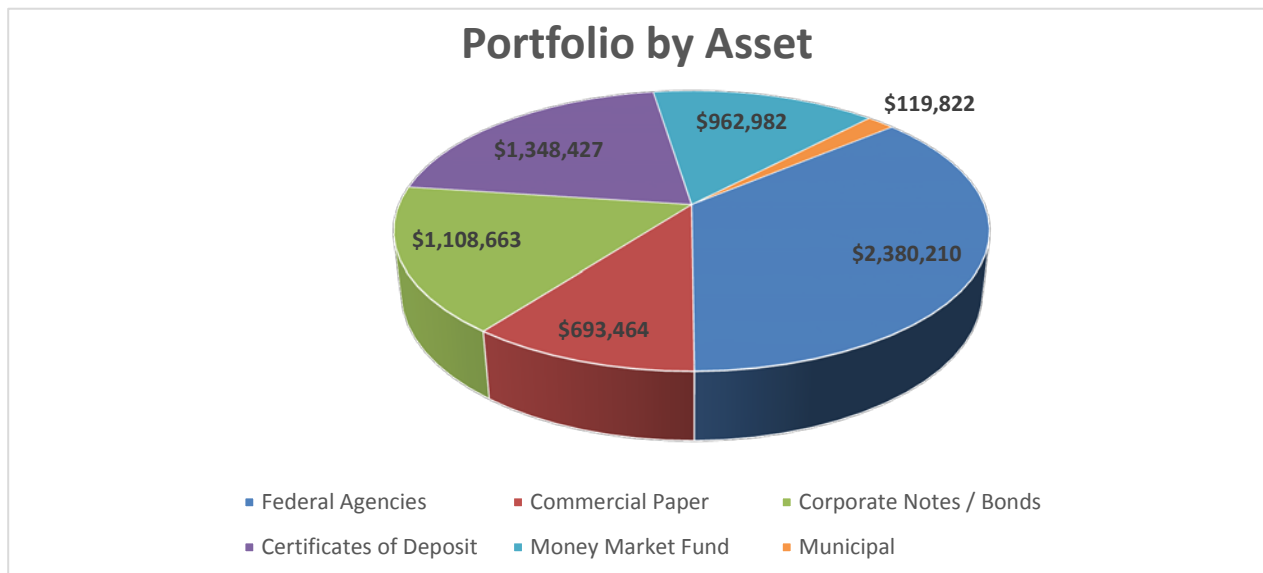


Figure 5.1





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Recycling and Diversion

The R-Board was approved for a 40.1% recycling rate for CY2017; the approval letter can be found in the Appendix. This rate exceeds the mandated recycling rate of 25% established in the 9VAC20-130-125. Recycling remains voluntary and the R-Board provides residents with several locations for dropping off recyclables. The following locations accept residential recyclables:

City of Fredericksburg

Belman Road Recycling Center
1200 Belman Road

Hugh Mercer Elementary School
2100 Cowan Boulevard

Walker Grant Middle School
1 Learning Lane

Stafford County

Regional Landfill
489 Eskimo Hill Road

Rowser Building
1739 Eskimo Hill Road

Gayle Middle School
100 Panther Drive

This year the R-Board offered its support to the City schools, which are elevating recycling programs in their schools. Also contributing the effort is the City's Clean and Green commission and the current waste vendor for the schools, Republic Services. In the coming year the groups introduce Reducing, Reusing and Recycling (3R's) educational opportunities to the students.

Upgrades to Eskimo Hill Residential Recycling Drop-off Site

Douglas "Web" Webster worked for the landfill as a mechanic for only a short time before he took an interest in a needed upgrade to the recycling collection area on the residential side. The single-stream recycling was not being efficiently deposited into the containers. Recycled material was being inadvertently dumped on the ground rather than in the containers, making the area unsightly and creating the need for constant clean-up. Web enlisted ideas and support from many on the landfill team, and soon new fencing and signage were installed. Susie Carpenter, (pictured with Web), Floyd Bloxton, Mike Cross, Nelson Daves, and Mark Ward, all substantially contributed to the project. The R-Board is also grateful to the crew from Camp 21, for the work they performed on this project. The new fencing system is now in use. Team Work Makes The Green Work!



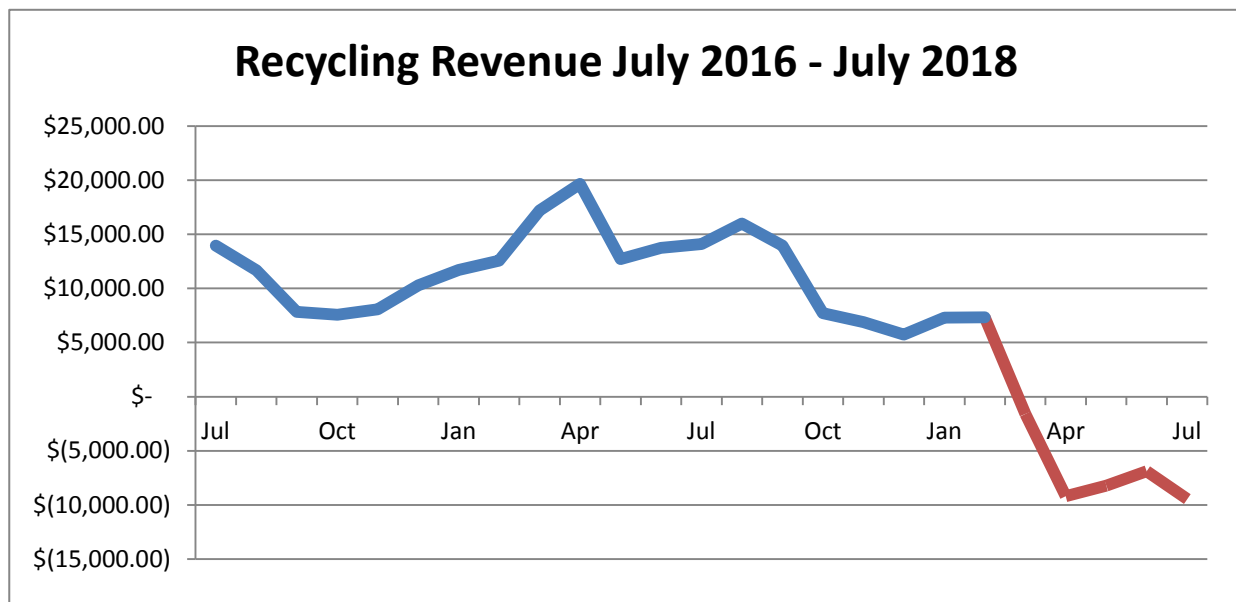


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Single Stream Recycling

Global and domestic markets for single stream recycling experienced a volatile year. The market shift to foreign purchase of this material began around 2000. At that time, Chinese companies began to import recycling materials in significant volumes. By 2008, evidence was building that materials sent to China from the United States was highly contaminated with solid waste, and the Chinese government became concerned about impacts to the environment. The Chinese government first launched an initiative called “Green Fence” to crack down on potentially hazardous Chinese operators. In July 2017 China announced its intent to ban contaminated materials and lower the threshold of recycling material contamination. This new initiative was called “National Sword”. In January 2018, the list of banned materials and contamination thresholds were released. By March the impacts began to hit U.S. processors, who are facing high standards of purity and uncertainty that shipments to China will be accepted. Further restrictions will continue to increase through December 2018. China has announced its intent to phase out imports of all recyclables by 2021. In addition to these bans, August saw a series of 20-25% import tariffs being placed on a number of incoming recyclable materials in response to the tariffs the U.S. placed on Chinese imports. Landfill staff has taken a series of steps to reduce the impact from the changes to the recycling market. One such step was to focus on removing glass from single stream mix, as we pay a significant amount to dispose of it with our recycling vendor. A program to separate glass for beneficial use at the Belman and Eskimo Hill residential facilities has been installed and showing healthy results. Despite the instability, we remain committed to maintaining our recyclable materials collection program.





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Household Hazardous Waste Collection

Since 1999 the R-Board has voluntarily offered Household Hazardous Waste collection days for residents. Year around, residents can recycle their oil, anti-freeze and fluorescent bulbs at the residential drop-off sites. The program has grown to include electronic waste collection by the Rappahannock Area Goodwill Industries. Attendance has grown over the years requiring the R-Board to host the events at new locations. The spring program is held at Stafford Middle School. In the fall it is held at the Fredericksburg City Shop. This year the two programs received 937 participants. 25,615 gallons of household hazardous materials were collected. 26,062 gallons of waste oil and antifreeze was recycled. 29,916 linear feet of fluorescent bulbs were recycled. 6,818 lbs. of electronic waste was recycled.

The HHW program is a community service offered by the R-Board free of charge. It benefits our residents by offering a bi-annual opportunity for residents to dispose of waste materials not accepted by commercial waste companies or the City. In return, we believe this program keeps hazardous material from being disposed of illegally in the Landfill.

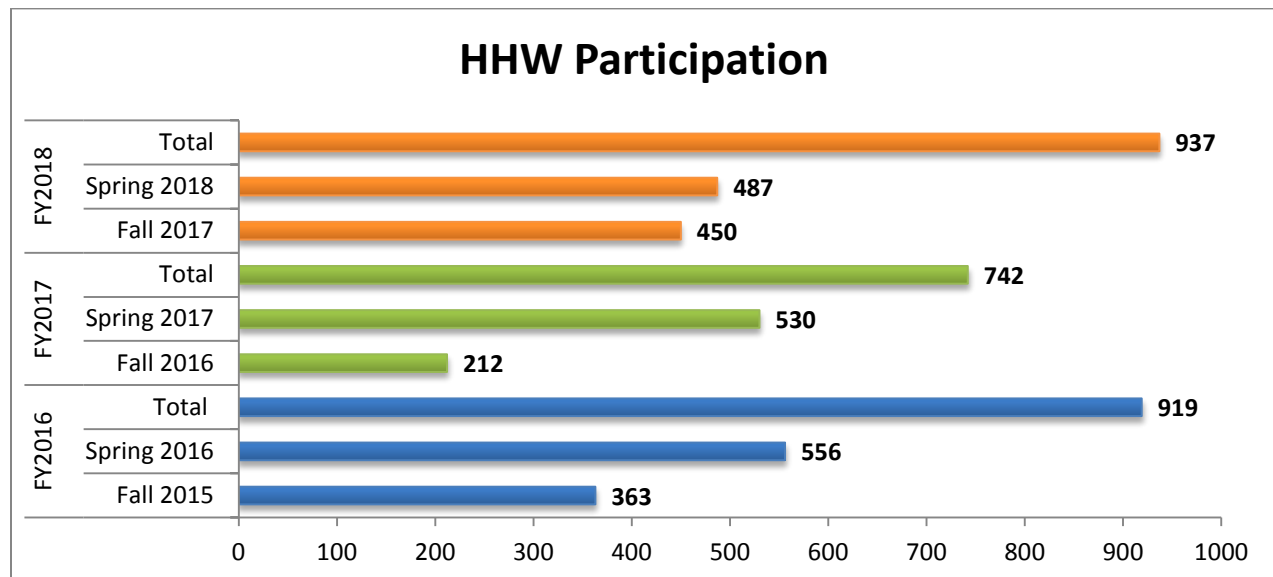


Figure 7

R-Board Household Hazardous Waste Collection Totals To-Date (FY2001-FY2018)					
Participants	Oil/Antifreeze (gal.)	Other Liquids (gal.)	Fluorescent Bulbs (linear ft.)	Car Batteries	Total Cost
10,579	493,039	228,399	268,368	26,532	\$802,115

Table 5



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Litter Control

Goals:

- Coordinate efforts from all available resources: paid staff, volunteers, and organizations
- Maximize resources by leveraging community energy and partnerships
- Focus Litter Pickup efforts on high traffic areas in Fredericksburg and Stafford
- Provide timely response to citizen calls on particular areas of concern

Programs:

- Rappahannock Regional Jail (RRJ) Inmate Roadside Litter
- Rappahannock Region Jail (APP) Adult Probationer Program
- Rappahannock Area Office on Youth (OOY)
- Community Cleanups & One Time Special Cleanup
- Neighborhood or Volunteer Cleanup
- Illegal Sign Removal
- Social Media & Website Messaging

R-Board staff monitors over 1,400 miles of roadways for the City of Fredericksburg and Stafford County and collects litter by using both paid Litter Crew and non-paid labor.

Adult Probationer and Regional Jail Partnership Programs

The R-Board collaborates with the Rappahannock Regional Jail (RRJ) to utilize the adult probationer community service requirement for roadside litter clean up. The court assigns probationers with a certain amount of hours to be completed by a set date. Through this cooperation there have been:

- 28 adult probationers (this number is not confined to FY2018, it is rolling number dependent upon when individuals were assigned/completed the program)
- 579 non-paid hours.
- 10,740 pounds of litter removed from roadsides by adult probationer participants

Further, there is an inmate litter pickup crew that works along the roadways under the supervision of RRJ Officers. This crew is scheduled when the RRJ has availability as they also work for other regional public entities.



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Litter Grant

The R-Board applies for the VADEQ Non-Competitive Litter Grant each year. In FY2018 we received \$25,691 in grants. After grant funds are received, the R-Board manages grant activities for both localities. The grant funds are primarily used to cover the cost of operational supplies for litter cleanup, along with environmental education and outreach programs. A portion of funds is designated for the Fredericksburg City Clean and Green Commission.

R-Board staff maximizes the use of non-paid assistance through the use of RRJ inmates, adult probationers, and persons assigned by the Office on Youth. R-Board staff continues to be the primary agents of litter clean-up, while the RRJ inmates/probationers and community volunteers are secondary.

Graphs highlighting clean community efforts are provided below:

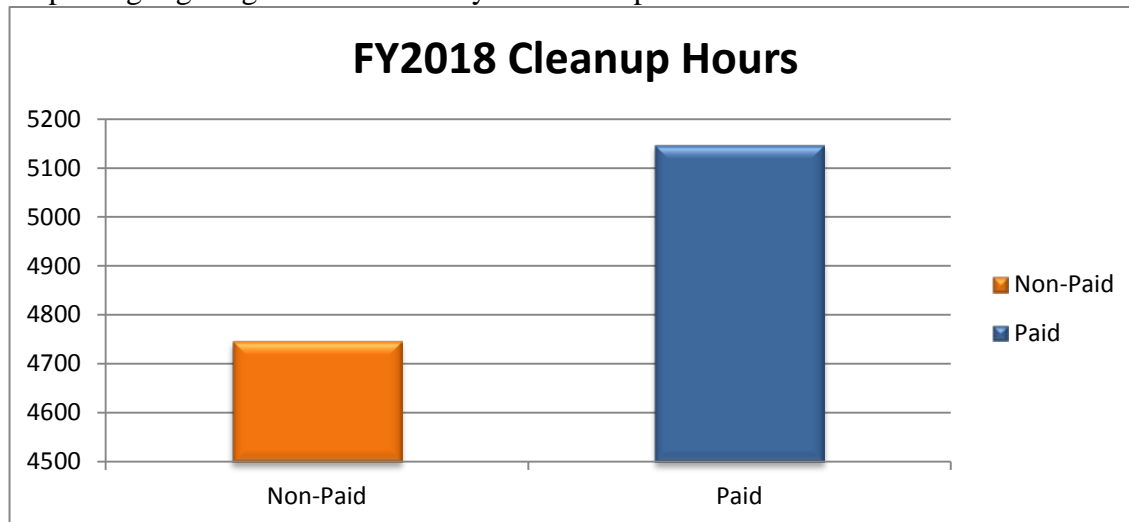


Figure 8

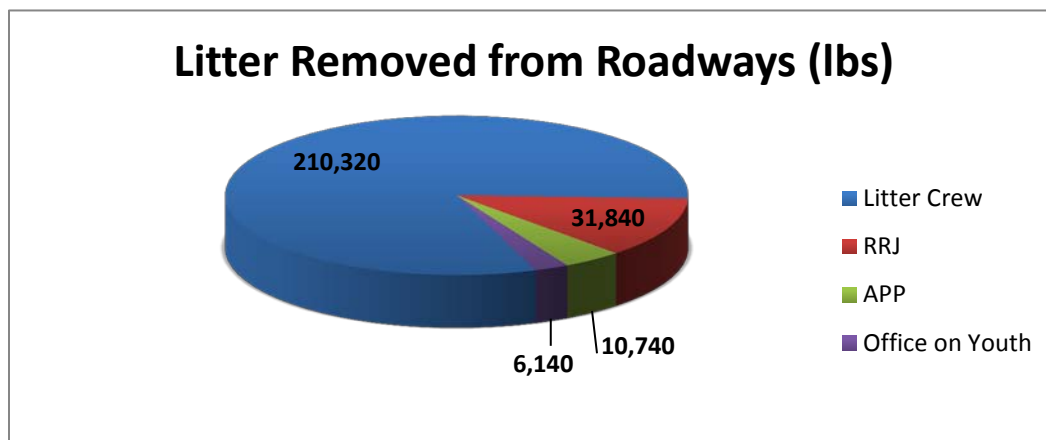


Figure 9



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Outreach and Education

The R-Board is proud of our community outreach and education programs. These programs are provided for both the City of Fredericksburg and Stafford County; additionally they are provided for all age groups from young children to senior-adult. Programs offered this year were: landfill tours, Worms Eat My Waste, education trailer presentations, and Michael Recycle read-along and activity.

Landfill tours are available for all age groups and can be modified to meet the needs of those attending. The tour goes around the landfill while a staff member educates the group on recycling, landfill operations, and pollution prevention. An optional “edible landfill” presentation follows.

Worms Eat My Waste is a program directed towards school aged children. This program encompasses the decomposition aspect of the third grade SOL curriculum, however all ages can both learn and enjoy this experience. Attendees of this program learn about composting and recycling organic material.





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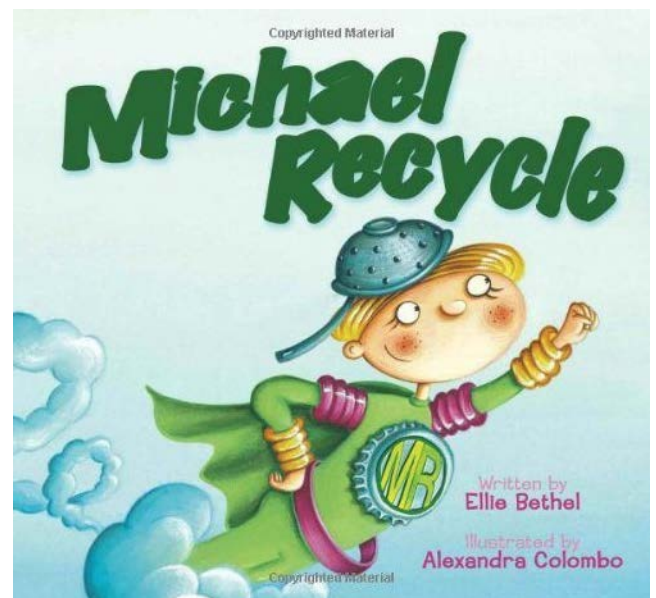
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Education trailer presentations are one of the most diverse and accessible programs that the R-Board offers. The education trailer is available for both manned and unmanned events, allowing for the R-Board to increase its audience. This year the total number of people reached by trailer presentations increased to 4,770. This increase is primarily due to setting the trailer up at more large regional events.

After 11 years of use, the R-Board's mobile education trailer was in need of refurbishing. Staff utilized funds received from DEQ's Litter Prevention and Recycling Grant. New interactive and display subjects depicted how recyclable material is made into something new. Greater emphasis was also placed on source reduction and reusing waste, as well as composting.



The Michael Recycle program is directed towards younger children. Those who attend this program are read a book about a recycling superhero who saves a city "...where garbage was left to grow rotten and slimy". The book's message for children is that recycling is important. Additionally, an arts and crafts component allows children to identify recyclable items.





Rappahannock Regional Solid Waste Management Board

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R-Board Website Activity

The website and social media (Facebook) provides up-to-date information on R-Board news, meetings, holiday closures, operating hours, recycling policies and special events. Our website www.R-Board.org and Facebook feed (@RBoardStaffFred) also provides the public answers to their most frequently asked questions. Coupon books and annual passes can also be purchased from the website. The following graphs illustrate the overall website usage, the top five visited pages, and the total number of website activity/sessions per year.

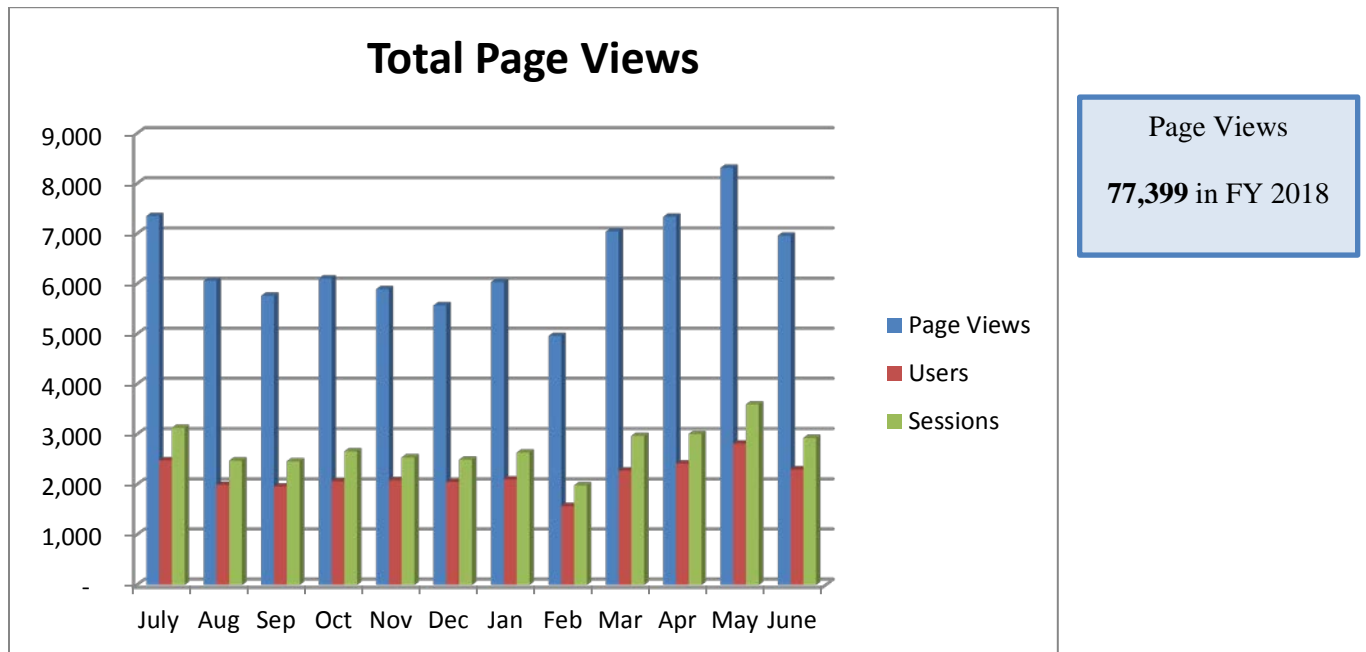


Figure 9.1

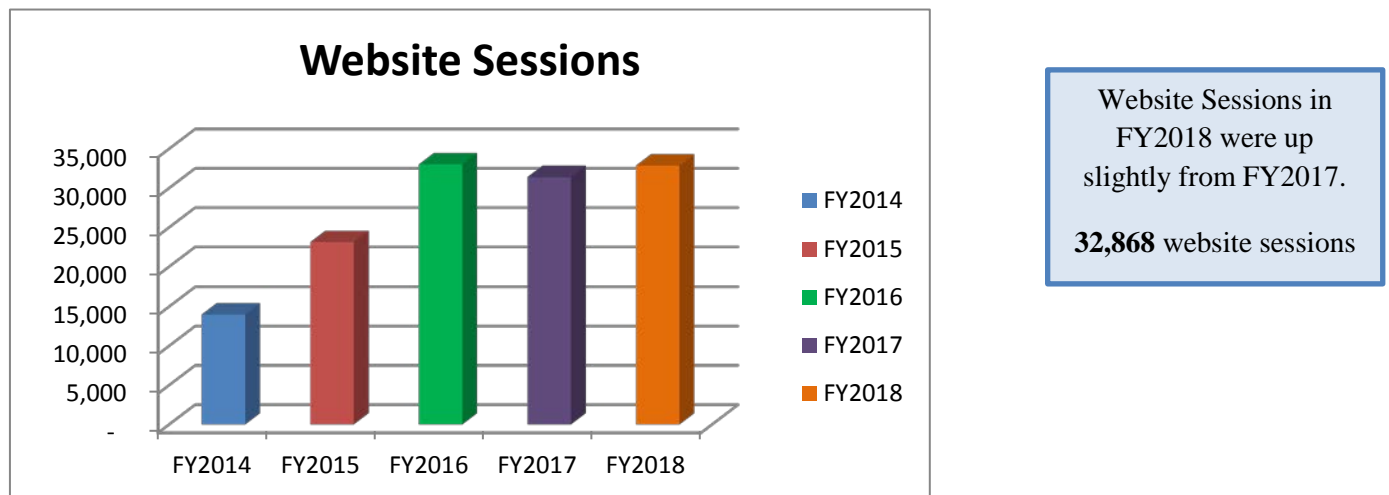


Figure 9.2



Rappahannock Regional Solid Waste Management Board

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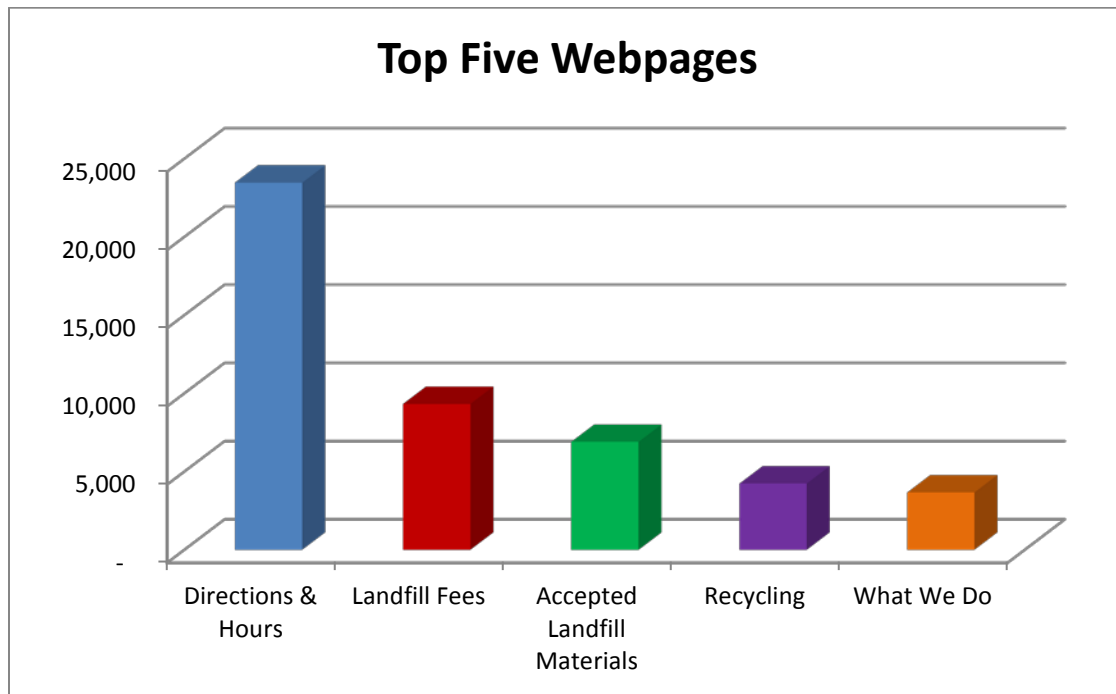


Figure 9.3

The top five web pages fluctuate from month-to-month only slightly. The landing page (homepage) is not included in the graph above.



Facebook results can only be traced for 180 days. At the end of the last month of the fiscal year (June 2018) our FB page had 185 Likes. For the last quarter of FY2018 we had 148 engagements and a total reach of 789. Our FB handle is @RboardStaffFred



Twitter is a great way to speak to those who are in the news media, as well as other public governing bodies, educational institutions, etc. Twitter will begin next Fiscal Year. Our Twitter handle will mirror our Facebook handle @RboardStaffFred



Appendix

Rappahannock Regional Solid Waste Management Board

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COMMONWEALTH of VIRGINIA

DEPARTMENT OF ENVIRONMENTAL QUALITY

Street address: 1111 E. Main Street, Suite 1400, Richmond, Virginia 23219

Mailing address: P.O. Box 1105,

Matthew T. Rinkoff
Secretary of Natural Resources

Richmond, Virginia 23218

David E. Pyle
Director
(804) 698-4000
(800) 698-1400

www.deq.virginia.gov

August 2, 2018

Ms. Diane Jones
Recycling Coordinator
Rappahannock Regional Solid Waste Management Board
489 Eskimo Hill Road
Stafford, VA 22554

RE: CY 2017 Recycling Rate Report for Rappahannock Regional Solid Waste Management Board

Dear Ms. Jones:

The Department of Environmental Quality (DEQ) has completed its review of Rappahannock Regional Solid Waste Management Board's 2017 Recycling Rate Report submitted pursuant to 9VAC20-130-165 of the Solid Waste Planning and Recycling Regulations.

The above Solid Waste Planning Unit was required to meet or exceed a 25% mandated recycling rate based upon the requirements established in 9VAC20-130-125.A of the planning regulations. DEQ accepts your data as submitted, and your regional calculated recycling rate for CY 2017 will be reported as 40.1%.

If you have any questions, please contact me at prina.chudasama@deq.virginia.gov or (804) 698-4159.

Sincerely,

Prina Chudasama

Prina Chudasama
Litter & Recycling Program Coordinator
Office of Financial Responsibility & Waste Programs

Cc: RRR file