

**RAPPAHANNOCK REGIONAL SOLID WASTE
MANAGEMENT BOARD**

REGULAR MEETING AGENDA

**STAFFORD COUNTY
GEORGE L. GORDON, JR. GOVERNMENT CENTER
BOARD OF SUPERVISORS CHAMBERS
STAFFORD, VIRGINIA**

**November 20, 2019
8:30 AM**

- A. CALL TO ORDER**
 - B. ROLL CALL**
 - C. APPROVE MINUTES OF PRIOR BOARD MEETING (Tab 1)
August 21, 2019**
 - D. PRESENTATIONS BY THE PUBLIC**
 - E. PRESENTATIONS BY R-BOARD MEMBERS**
 - F. REPORT OF STAFF (Tab 2)**
 - 1. Report of R-Board Superintendent**
 - a. Cell F2 Filling Status**
 - b. Personnel Status Update**
 - 2. Environmental Compliance Report/Permit Amendment Status**
 - 3. Recycling Manager Report**
 - G. REPORT ON FINANCES (Tab 3)**
 - 1. Financial Summary; FY2019 – through October**
 - 2. Weight & Material Analysis; FY2019 – through October**
 - H. NEW BUSINESS (Tab 4)**
 - 1. Annual Report**
 - 2. Cell F2 Debt/Cell F3 Construction (RB19-11)**
 - 3. Draper Aden Associates Contract Increase (RB19-12)**
 - 4. Authorize a Public Hearing re. Commercial Fee Schedule Changes (RB19-13)**
 - 5. Fee Reduction for Dirt (RB19-14)**
 - 6. Initiate Leaf Composting (RB19-15)**
 - 7. Rules and Regulations Updates (RB19-16)**
 - 8. Commercial Gate Operating Hours (RB19-17)**
 - I. CLOSED SESSION (if needed)**
 - J. NEXT SCHEDULED MEETING
February 19, 2020, Board of Supervisors Chambers, George L. Gordon, Jr. Government
Center, 8:30 AM**
- ADJOURNMENT**

MINUTES

RAPPAHANNOCK REGIONAL SOLID WASTE MANAGEMENT BOARD

August 21, 2019

George L. Gordon, Jr., Government Center
Board Chambers

Meeting Convened: A regular meeting of the Rappahannock Regional Solid Waste Management Board (R-Board) was convened at 8:30 a.m. on August 21, 2019, at the George L. Gordon, Jr., Government Center, Board Chambers.

Roll Call: The following members were present: Meg Bohmke; Cindy C. Shelton; William C. Withers, Jr.; Tim Barody; and Thomas Foley. Matthew Kelly arrived at 8:33.

Also in attendance were: Brendan Hefty, Esq., R-Board Attorney; Rick Markwardt, Landfill Superintendent; Diane Jones, Recycling Manager; Pamela Timmons, R-Board Clerk; and Fred Presley, Interim Director.

Election of Officers Ms. Bohmke motioned, seconded by Mr. Withers to elect Ms. Shelton as Chairman.

By voice, the vote was:

Yea: (5) Barody, Bohmke, Foley, Shelton, Withers
Nay: (0)

Mr. Withers motioned, seconded by Ms. Bohmke, to elect Mr. Kelly as Vice Chairman.

By voice, the vote was:

Yea: (5) Barody, Bohmke, Foley, Shelton, Withers
Nay: (0)

Approval of the minutes of prior meeting: Ms. Bohmke motioned, seconded by Mr. Withers, to approve the minutes from the May 15, 2019 meeting.

By voice, the vote was:

Yea: (5) Barody, Bohmke, Foley, Shelton, Withers
Nay: (0)

Presentations by the Public: The following members of the public desired to speak:

Tim Rudy - Thanked everyone for the valuable service provided to citizens. Would like to see some improvements in the signage, specifically mentioning that recycling was a "voluntary" program. Concerned that rogue dump sites may pop up throughout the county.

Presentations by the R-Board: The following R-Board members desired to speak:

Ms. Bohmke - Asked if the R-Board has a new student for the "Yes" program. Staff will look into it.

Presentation of Joe Buchanan as the New Director of the Rappahannock Regional Landfill: Mr. Presley introduced Mr. Buchanan. Mr. Buchanan said that he was looking forward to working with everyone. Mr. Kelly said that he is interested in discussing alternatives to the typical landfill, as well as composting.

Ms. Shelton welcomed Mr. Buchanan and is excited to hear his recommendations since he will be looking at the operation with fresh eyes.

Report of the R-Board Superintendent: Mr. Markwardt reported on the following:

Cell F2 Filling Status

Mr. Markwardt reported that the filling of Cell F2 continues without issue. Approximately 1,202,146 cubic yards of available airspace has been consumed. The life expectancy of Cell F2 is until November, 2020.

Ms. Bohmke asked if this date was earlier than previously thought. Mr. Markwardt said that once Draper Aden had investigated, the timeframe was moved up. Mr. Foley said that there was a meeting scheduled for September 13th to discuss the Cell F3 design. The design should take a couple of months, and the building of F3 should take approximately three months. Ms. Bohmke asked that financing be discussed at the next meeting. By the end of FY20, Cell F2 will be paid in full. Mr. Kelly noted that new options for the Landfill need to be discussed. Mr. Foley added that he and Mr. Baroody could also meet with Mr. Markwardt to further discuss the financial plan.

Personnel Status Update

Mr. Markwardt reported that the R-Board is authorized for a total of 38 employees (33 full-time and 5 part-time). At this time there are two Gate Attendant positions vacant. There are 31 full-time positions filled, with one Heavy Equipment Mechanic, and one Maintenance Worker vacant.

Replacement Equipment Deliveries

The following major equipment purchases were authorized: John Deere Off-Road Dump Truck, John Deere Tracked Loader, Mack Roll-Off Truck, and a GPS system for the heavy equipment at the working face. The Dump Truck was delivered on August 2, 2019 and put into use the week of August 5th, after training was received. The Tracked Loader is expected to arrive at the end of August, and the Mack Truck delivery is expected in February, 2020. Staff is currently developing an RFP for the GPS equipment. Mr. Markwardt stated that the older equipment will be used as a secondary source or go to auction.

Environmental Compliance/Permit Amendment Status: Ms. Gilani reported that DEQ conducted a 2nd quarter inspection on May 22nd. The inspector noted erosion rills on Cell F2 that staff remedied, and provided proof later that day. The R-Board received a No Deficiency letter and was in compliance for all evaluated areas.

The VPDES permit was submitted in April, 2019, and on June 5th, the R-Board received confirmation that the initial review of the registration statement was completed. Additional internal DEQ reviews will be conducted. Draper Aden also reported to DEQ that concentrations of cadmium and cobalt exceeded its Groundwater Protection Standards at two wells, but did not exceed the facility background concentrations. Staff continues to await approval from DEQ to replace these wells with MW-12 and MW-13.

Staff received a Gas Monitoring Report from Draper Aden in July, after its staff measured landfill gases at 26 locations along the facility boundary. Draper Aden concluded that the Landfill was in compliance

with Virginia Waste Management Regulations as it pertains to methane control. Staff has also submitted two major semi-annual reports for the VPDES and Title V permits.

Additionally, Draper Aden is working on revisions to our Solid Waste Management Plan and been in contact with DEQ. Staff anticipates a DEQ inspection sometime in September.

Recycling Manager Report: Ms. Jones reported that staff continues to monitor the volatile recycling markets. This fiscal year, staff will be using a flat fee for processing rather than being tied to markets. This will help control budget impacts.

Fredericksburg Public Works staff has worked with Fairfax County regarding glass recycling. Fairfax invested in a glass-crushing operation two years ago with intention to capture material recovery facility glass (MRF), but the glass proved too contaminated. Staff is interested in working with Fairfax to supply glass cutlet since there is an appropriate collection system at Belman. Staff desires to retrofit an existing container at Eskimo Hill to collect glass. Fairfax has offered to pull these containers for a 3-6 month trial at \$300 per round trip. This is an unbudgeted expense, but staff believes that the cost can be absorbed in the current single-stream recycling appropriation. Staff believes that it can perform the transport at less cost, or possibly contracting the hauling to private industry. The R-Board has received approval from DEQ to handle both glass and gravel asphalt milling for beneficial use.

Household Hazardous Waste and Electronic Waste Collection Day was held on Saturday, July 27th at the Stafford County Government Center, with 570 residents participating. Staff handled the latex paint, and savings are estimated at \$8,500, based on past program amounts.

Community Outreach: There was an informative article in the Free-Lance Star on May 25th. The Butts are Litter, Too Campaign amassed 43 volunteers who collected 3,838 cigarette butts. This was in conjunction with the installation of 30 Cigarette "Butt-lers" that were installed in Fredericksburg public parks. Approximately 110 Stafford County students participated in Landfill tours. Staff also participated in Dare Day and National Night Out.

Staff submitted the application for the DEQ Litter Grant.

Mr. Baroody noted that the City is working on a formal plan to make the glass recycling more robust.

Report on Finances: Mr. Presley reported on the following:

Financial Summary (FY 2019 – though June): Mr. Presley reported that revenues have increased by approximately \$1.3 million, and expenditures are down approximately \$1.0 million. There is still a savings in personnel costs, and revenue from commercial has increased. Mr. Withers asked about the dirt intake. Mr. Markwardt said that there is a charge for bringing in "dirty" dirt, and the "clean" dirt is used for cover.

Weight & Material Analysis (FY 2019 – through April):

Mr. Presley reported that staff has observed an increase of 3% in billable tonnage, and commercial is on target. Ms. Shelton asked if the Landfill will accept storm debris at no cost since areas of the county experienced violent storms recently. After discussion, Ms. Bohmke motioned, seconded by Mr. Withers

to begin the free collection period today, through September 1st.

Unfinished Business:

Operational Agreement Update Mr. Brendan Hefty reported that he is awaiting comments from the County Attorney. Once received, and the draft reviewed, it will come back to the R-Board for discussion and approval.

Updated Landfill User Fees Implementation Mr. Presley noted that there had been multiple discussions regarding the definition of “Residential Oversized Load.” The 8-foot trailer rule has become problematic. It was determined that a tonnage weight should be set –“if you are under one ton, you are fine.” The amendment was made to be “any vehicle, regardless of size with up to four bins will not have an oversized load fee.” Any annual pass and coupon holders that made their purchases prior to July 1, 2019 are grandfathered. When those passes and coupons were purchased, the oversized load fee was not in place. In addition, the oversized load fee is not being charged for yard waste at this time due to the need for additional clarifications to the rules. Mr. Presley added that he welcomed any recommendations from the R-Board. Mr. Kelly agreed that there needs to be a clearer definition of “yard debris.”

Mr. Foley recognized Mr. Presley for his hard work during the transition, with improved communication and taking the lead on hiring a new director. Ms. Shelton and Ms. Bohmke thanked Mr. Presley as well.

Adjournment: The meeting was adjourned at 9:20 a.m.

Future Session: The next regular meeting will be held on November 20, 2019, at the George L. Gordon Government Center, 8:30 a.m., in Board Chambers.

Fred Presley, Interim Director

Pamela L. Timmons, Clerk



Rappahannock Regional Solid Waste Management Board

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

To: R-Board Members
From: Rick Markwardt, Landfill Superintendent
Date: November 20, 2019
RE: Report of the Landfill Superintendent

Cell F2 Operations

When Cell F2 was constructed it was designed to hold approximately 1,722,820 cubic yards. We have filled approximately 1,202,146 cubic yards (plus a 15% reduction for roads and berms). If filling continues at this rate there is approximately 16 months of life expectancy for Cell F2 from July 2019. DAA life expectancy for Cell F2 is until November of 2020 and the next flyover is scheduled for January of 2020.





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Free Storm Debris Update

The R-Board was able to serve a total of 471 residents from August 21 to September 1 with free yard debris disposal due to the storm in August.

New R-Board Office Building

The new R-Board Office Building is starting to take shape. The C2Crew, along with personnel from the Camp 21, have been busy removing old material from the building in preparation for the painters, flooring, communications, and HVAC contractors to come in. We are hoping for a move in date sometime in December of this year.

Replacement Equipment Deliveries

The John Deere 755 Track Loader arrived on October 2, 2019 and was placed into service on October 14, 2019 after receiving training from John Deere. The Mack Roll-Off truck is still expected sometime in February, 2020 and the GPS System is still pending development of a RFP.





Rappahannock Regional Solid Waste Management Board

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To: R-Board Members
From: James Canty, Landfill Superintendent - Operations
Date: November 20, 2019
RE: Personnel Report

Staffing:

The R-Board is authorized for a total of 38 staff positions, of which 32 are full-time and 6 are part-time. Currently, all 32 full-time & 5 part-time positions are filled. The only vacancy at this time is for a Heavy Equipment Operator part-time position, which is currently being advertised.

Some notable FY19 accomplishments of our current staff include:

Training:

Multi-topic SWANA training, Annual Safety Summit training, as well as DEQ Universal Waste training was received by several team members; VA DPOR “Waste Management Facility Operator - Class 1 & 2” Course Completion was achieved by eight members (qualifying them to test for their Facility Operator’s license).

Licensure& Certification:

Two teammates have also successfully completed DPOR testing & have earned their Facility Operator’s license; three have earned VDOT Flagger’s Certificates; two obtained VA Class “A” CDL’s.

Accolades:

One R-Board staff member was recognized for “leadership” in Stafford County’s employee “Make a Difference Campaign.”

Career Development:

Staff leadership has worked closely with Human Resources on several initiatives to improve the career development process, as well as employee retention, as well as including the implementation of the Class & Compensation Study. The ongoing application of the study is intended to facilitate the maintaining of a qualified & stable workforce that is well equipped to meet the needs of the R-Board and community constituents. Additional programs to further these goal s are also forthcoming.



Rappahannock Regional Solid Waste Management Board

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

To: R-Board Members
From: Sofia Gilani, Environmental Technician
Date: November 20, 2019
RE: Environmental & Regulatory Compliance Report

On August 14, 2019 the DEQ conducted the third quarter inspection. The inspector noted exposed waste and insufficient cover east and south of the working face. This resulted in a deficiency letter which the R-Board responded to. Staff is taking steps to ensure consistent coverage of waste every day.

On September 10, 2019 the R-Board received confirmation of our new VPDES permit. The new permit requires our Storm Water Pollution Prevention Plan (SWPPP) to be updated within 90-days which has been completed.

On September 30, 2019 Draper Aden Associates conducted the quarterly gas monitoring event. During this event, gas boundary probe GP-07 exceeded the 25% lower explosive limit at 25.6%. This resulted in an issuance of a warning letter on October 9th. In response, Mr. Markwardt informed DEQ that the R-Board would increase compliance probe monitoring to weekly for GP-07 and the two probes on either side. Four consecutive weekly testing results resulted in acceptable levels and the R-Board will transition to monthly monitoring for three consecutive months. If GP-07 is in compliance for three consecutive months then we will return to the quarterly monitoring schedule.

The analytical results of the storm water samples collected on September 30th revealed two exceedances at Outfall-008 with a pH level of 3.33 and total zinc of 0.344 mg/l, whereas the permitted limits are 6.0-8.8 S.U. and 0.20 mg/l – respectively. We intend to perform an acid-sulfate soil study to determine if the exceedances are attributed to the native soil within the drainage basin area.

On October 10, 2019 the DEQ approved the proposed facility-wide background groundwater protection standard value of 121.6 µg/l for arsenic. The original value was 10 µg/l. This increase will likely prevent the R-Board from experiencing any arsenic exceedances at either the closed or active landfills.



Rappahannock Regional Solid Waste Management Board

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To: R-Board Members

From: Diane Jones
Recycling Manager

Date: November 20, 2019

Subject: Recycling and Outreach Updates

Single Stream

Staff has continued to move materials from the City of Fredericksburg, and from the residential convenience centers located at Eskimo Hill and Belman Road. The markets continue to be experiencing fluctuations of decline. For FY20 the single stream contract holds the costs stable at a flat rate for processing and a flat rate for transportation. Staff will be researching the most efficient and cost effective scenarios for the materials going forward into the FY21 budget cycle.

Glass Recycling

Staff reported at the last Board meeting, that they would be working with Fairfax County to deliver clean, separated glass to Fairfax's glass processing facility. On October 30th we had our first load taken from the Belman Road Residential Convenience Center to the Fairfax processing facility. Fairfax reported that the weight of the load and the cleanliness of the material was good. The load weighed in at 10,140 lbs. Staff is in the process of retrofitting a container for the Eskimo Hill residential drop off site so that the glass captured there can be taken to Fairfax as well. This is a 6-month pilot during which Fairfax will be providing transport at \$300.00 per haul round trip.

Household Hazardous Waste and Electronic Waste Collection Day

The Household Hazardous and Electronics Waste day was held at the Fredericksburg City shop located at 1000 Tyler Street on Saturday, November 9th. A total of 310 residents participated. The handling of latex was again performed in-house. Five tons of latex paint was collected. The material was dried out for landfilling.

Litter Control and Community Outreach

A promotion and a resignation within the Clean Community Crew (C2 Crew), necessitated the hiring of two new staff members, both of whom can do the important road work but also have a strong skillset for outreach and education. Litter collection proceeded at a good pace. Additionally, our partners with the Rappahannock Regional Jail provided 22 litter collection days for us this quarter.



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Several of our outreach initiatives are listed below:

- Taught Environmental Education and Recycling Right through Stafford Parks Nature Camp at Rowser Building (8/2)
- Participated in National Night Out (8/6) Stafford Market Place
- Landfill Tour for Merit School 2nd Graders (picture below)
- Thank you to Adopt-A-Highway Volunteers - Filipino Association of Stafford - attended monthly meeting at Porter Library (8/8)
- Keep Virginia Beautiful Regional Meeting in Richmond (8/15)
- Selected as Community Outreach Partner for B101.5 Bee Flix (three Saturday's in September) at Hurkamp Park (September 14, 21, 28)
- HOA Fall Picnic Tabling Event at Shelton's Run (10/6)
- Staffed Tabling Opportunity for Friends of Rappahannock Clean Up and provided sponsor-level support at Old Mill Park (10/12)
- Recycling Trailer Provided for Grafton Grizzlies Fall Festival (10/12)
- Staffed Table for Pedal for the Planet at Old Mill Park (10/13)
- Landfill Tour for Girl Scouts (2 vans full) (10/14)
- Rotary Presentation & Networking Joe Buchanan and Diane Jones (10/16)
- Two Trunk Or Treat Events – Stafford Parks and Recreation at County Government Center (10/26) and Aquia Harbour (10/27).



Happy Campers Learn to Recycle Right



National Night Out – Outstanding Response – Talked with Hundreds



Landfill Tour with Merit School 2nd Graders



Fall Community Picnic – Shelton's Run



Stafford Rotary Educational Presentation



Rappahannock Regional Solid Waste Management Board

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Perfect Setting for Environmental Education at B101.5's Bee Flix Event
Three Saturday Nights in September at Hurkamp Park; 300 attendees estimated



Trunk Or Treat – Stafford Parks Event
Government Center 700+ attendees

Grants

The R-Board has received the Department of Environmental Quality non-competitive litter and recycling grant in the amount of \$23,315. This amount is down slightly from last year. The amount granted is based on beverage container sales taxed as well as the jurisdiction's population and road miles. Staff also applied for a competitive litter grant with our regional partners. The awards for these applicants had not been made public at the time of this report.

Voluntary Glass Separation Efforts

In a continued effort to facilitate information on the voluntary recycling program, the R-Board engaged Kevin Henry Mileposts to produce a video encouraging neighbors to cooperate in collection and transportation efforts. The video was placed on the R-Board's newly created YouTube Channel. The video can be viewed at this link - <https://www.youtube.com/watch?v=7F8dfpF7-cw&t=56s>. As of October 31 the professionally produced video had over 400 views. The original video produced internally featured Councilor Billy Withers at his home encouraging voluntary glass separation from curbside collection. This video was posted eight months ago and has had 1200 views.



The state of recycling in Virginia: It may not be going where you think

By KATHERINE HAFNER
THE VIRGINIAN-PILOT |
NOV 07, 2019 | 10:10 AM



What happens to our recycling in Hampton Roads?

Sorters sift through recycling as it passes by on a conveyor belt, pulling out items that cannot be recycled or will damage the machinery at TFC Recycling in Chesapeake on October 7, 2019. (Sarah Holm/The Virginian Pilot)

A few years ago when you tossed your cardboard boxes from Amazon into the recycling bin, there's a good chance they eventually traveled thousands of miles and half a world away to China.

That changed early last year. China stopped taking most of those materials and the recycling industry entered a tailspin as the world's largest market for recycled commodities all but closed. Prices plunged and with them, recyclers' revenue.

In Virginia, as elsewhere, some businesses that haul or process our waste have gone bankrupt, closed or moved. Some cities have had to cancel their curbside recycling programs — meaning those materials are now going to the dump.

The commonwealth is working to recover. Hampton Roads, too, has had to adapt. Much of our region's recycling — 400 tons a day of it — ends up at TFC Recycling's material recovery facility in Chesapeake. The waste comes

from Virginia Beach and the Outer Banks all the way to the Eastern Shore and James City County.

Michael Benedetto, the company's owner and president, said the market crash has had lasting impacts that aren't going away anytime soon.

"Next thing you know we've got a national crisis, because you can't afford to stay in business by charging these low prices," Benedetto said. "We decided to hunker down and tighten our belts and do things other companies could not do or decided not to do. And they went bankrupt."

In the wake of China's decision, TFC has had to renegotiate with the region's governments, charging more to process residents' recycling. It drew attention last year when it opted out of its Norfolk contract, citing China, only to work out a new agreement just recently after a survey showed citizens' overwhelming support for the program. Chesapeake **is now "seriously considering" ditching its program.**

Yet China's decision opens the door for economic development here.

Updated paper mills are opening, and Virginia passed a bill last year that incentivizes larger recycling and beneficial use plants. The Department of Environmental Quality has been evaluating the state's recycling strategies and just released a report on the topic.

The market shift from abroad has forced the industry to rethink its own practices. Where it goes from here is unclear. What is clear is that, like an aluminum can melted down and formed anew, the landscape in Virginia is morphing.

And your recycling may not be going where you think.



Pizza Boxes: No. Pizza boxes get contaminated with grease and cannot be recycled. Dirty cardboard can be broken up into pieces and composted, or disposed in the trash. (Sarah Holm/The Virginian Pilot)

You've finished that last delicious slice of pepperoni. What to do with the box?

The bottom line is the boxes are usually covered in food waste, making them not recyclable. Some places accept the clean half, or even cardboard with slight grease stains versus caked in cheese. In Hampton Roads, however, it's best to just throw it out. At TFC's Chesapeake facility, Benedetto said, workers have to grab items so fast at the initial sorting station that if they see a pizza box, they don't have time to assess the level of food contamination. It'll just get tossed.

Years ago, recycling trucks would pick things up using "multiple streams," meaning items would be separated by type from the very beginning.

Single stream, which is now nearly universal, combines everything. The benefit was it encouraged recycling by making it easier. The downside: when everything's jumbled together, contamination is rampant.

Recycling programs began in earnest in the 1980s, in part following an infamous incident involving the Mobro barge. The ship had set sail from New York carrying thousands of tons of trash headed for North Carolina. Following public backlash, the state rejected the garbage and the ship traveled to Belize and back to New York, searching for a place to dump the waste.

"From that it's like, 'oh my gosh, we've got all this trash, where are we going to bring it, there aren't enough landfills, we need to do more from a recycling perspective,'" Benedetto said. "And it was in the mid to late 1980s that throughout the country, including Virginia, they enacted recycling laws and mandates where a certain percentage of the waste stream had to be recycled."

Since 1989, the state has set recycling targets for local governments. For more than two decades it's been set at 25%, with an exemption for smaller localities that can have 15%. But even those numbers can be misleading, officials said. Though localities are required to submit their numbers to DEQ periodically, the department does not enforce the mandate beyond working to develop an action plan. Leslie Beckwith, director of the department's office of financial responsibility and waste programs, said in the past few years, only one locality had failed to meet the mandate. Virginia also takes in waste from outside the state — more than 5 million tons of it in 2018, according to a DEQ report — nearly a quarter of the total tons of waste disposed of in the commonwealth. Nearly 2.5 million tons came from Maryland, with about a million each also coming from New York and D.C.

“As you can imagine, this is bringing a lot of money in to companies that have the capacity, landfills here in Virginia,” Benedetto said. “There are a lot of lobbyists here that are protecting this free flowing of trash coming in. And anything that would keep that trash from going into Virginia's landfills, they're opposing with elected officials.”

Hampton Roads residents are not incentivized to reduce their trash, Benedetto added, because they don't pay by weight.

The conundrum of the pizza box highlights another problem in the industry: inconsistent guidelines.

An official in western Virginia told The Pilot pizza boxes would be accepted. A northern Virginia official said just the clean half of the cardboard would be OK. And down in Hampton Roads, it shouldn't be recycled at all.

“This is largely market-driven,” said Brandon Wright of the National Waste and Recycling Association. “Some communities it may be cost-prohibitive to recycle glass, so they don't take it. Others maybe transportation costs are lower. Whenever there's a market for something and it's cost-effective, that will dictate what's collected and not. It's important to check locally.”

The Virginia Recycling Association is monitoring a bill moving through Congress that would harmonize what can and can't go through recycling carts, said Monica Boehringer, the association's vice president and recycling coordinator for the city of Manassas.

"That lack of consistency is confusing," she said. Such a bill would be a "breakthrough."



Glass: Yes! Most glass that is recycled in Virginia ends up in a landfill — but still counts toward the recycling rate. It's crushed and used as a daily cover for the landfill to protect from scavengers and control odors. (Sarah Holm/The Virginian Pilot)

Here's something that might surprise you: most glass that is recycled in Virginia ends up in a landfill — but still counts toward the recycling rate. It's crushed and used as alternative daily cover, or material needed to cover a landfill each day to protect from scavengers, control odors and the like. Only about 10% of glass food and beverage containers in the commonwealth actually get recycled.

It's not that the material can't be recycled — in fact it can be, endlessly. But there is no facility in the state properly equipped to clean and process the glass to the standards required to make it into new glass products.

"Glass is kind of notorious in the recycling industry" because it gets so contaminated in the single stream process, said Helen Lee, environmental

program manager with the Alexandria Department of Transportation and Environmental Services. “The reason our glass has been hard to market is because it needs that next level of cleaning, that middle-level facility.”

It’s not affordable to send the glass to facilities out of state because the material is simply too heavy to transport.

“The practical implication is if you don’t have a beneficial use for it, it’ll get landfilled,” said Brett Vassey, president and CEO of the Virginia

Manufacturers Association. “If there’s no place to put the glass, operators are taking glass cullet (crushed pieces) and using it for landfill cover.”

That’s in part what inspired the manufacturers association to push for a beneficial use law in the commonwealth, which **passed and went into effect last year**. It allows facilities dedicated to beneficial use, such as for glass, to be deemed manufacturers and take home economic incentives. The bill also directed DEQ **to look at strategies for improving recycling in Virginia** over the next decade.

One strategy picking up steam elsewhere is known as the “bottle bill.” It is essentially a deposit on recycling. For each bottle, retailers pay a deposit that is passed down to the customer when buying the product. Consumers can then return the bottles after use and get their money back.

“Virginia needs to get on board with that. There needs to be a better funding scheme where there’s an amount set aside for the recovery of those materials,” said Scott MacDonald, recycling program manager for the Prince William County Solid Waste Division. “Glass has longstanding market problems in Virginia.”

The Owens-Illinois facility in Toano purchases glass cullet from Iowa, which has a bottle bill, according to board minutes from the Virginia Peninsulas Public Service Authority.

Meanwhile in northern Virginia, a group of localities have joined together to try something new. They stopped accepting glass curbside but created a new drop-off initiative featuring large purple bins. The glass in the program is

cleaner than what ends up in a local recycling center, and is sent to a new plant in Fairfax County where it can be turned into sand- and pebble-like material to be used in construction projects.

Here in Hampton Roads, Benedetto said, the main reason localities still want to divert glass from the trash is its weight. The more of it in the trash, the greater the fees to dispose of it.



Paper and cardboard: Yes! Newspapers, boxes, cardboard food containers, paper bags can all be recycled. Make sure cardboard is flattened and remove all plastic tape. (Sarah Holm/The Virginian Pilot)

At TFC's Chesapeake facility on an afternoon last month, Benedetto walked up to a bale of recycled paper, featuring flattened products including Cheerios boxes and a Deschutes Brewery beer carrier. One of these bales weighs an average of 2,200 pounds. At the plant, they're loaded into shipping containers and sent to the port to be shipped overseas.

Before, that meant mostly to China. Now most paper from Hampton Roads is exported to India and southeast Asia, Benedetto said. That change alone has introduced massive new transportation costs.

Because of its proximity to the port, TFC had been backhauling bales to China, filling empty containers that had unloaded here and needed the heavy weight to keep the ship stable on its return voyage.

“It was cheaper for us to send material from the ports here in Norfolk to China than it was to send it from here to Atlanta,” Benedetto said. The same isn’t true for India.

China still accepts near-pristine material — it dropped the level of contamination it will take to an extremely strict 0.5%. Cardboard coming straight from behind a big box store, for example, might qualify. But coming in after consumer use, through single stream, is nearly impossible. (Don’t toss shredded paper in the recycling, by the way, Benedetto said. It’s a contaminant.)

Paper now represents the economic opportunities that have emerged from the market shift. Mills that couldn’t have competed with China’s prices are opening domestically, including one north of Richmond. Cascades is spending about \$300 million to upgrade the former Bear Island Paper Mill in Hanover County and start producing recycled containerboard in 2021.



Plastic bags: No. Plastic bags should not be recycled curbside, as they can jam up the machines at the recycling plant. Plastic bags can be recycled at bins outside your local grocery store. It is important to not put your recycling in a plastic bag, rather recycle the items loose. (Sarah Holm/The Virginian Pilot)

This is what Benedetto calls the “urban tumbleweed,” the bane of recyclers everywhere.

“It blows out of our truck, it blows down the street, it comes into our facility, it jams up our equipment, it creates problem after problem,” he said. “If it gets through and winds up in the paper, it can create problems in third world countries. We do not want plastic bags.”

The bags are not recyclable curbside, part of a group of items known as “tangles.” (Keep in mind, the same applies for putting all of your recycling in a plastic bag. The whole thing will be tossed.)

People can take them to most supermarkets, where they’re sent to be used often in construction, turned into decking. But it highlights how the focus should be on the first two steps in the green arrow process: reduce and reuse.

Here we come to the industry’s preeminent problem, made more urgent in the wake of China’s contamination crackdown: what’s known as “wishful recycling.”

Many people will optimistically toss just about anything in the bin.

“You put it in and hope for the best,” said Boehringer of Manassas. “That’s where it goes horribly wrong.”

It’s not just everything but the kitchen sink, she said — one time, she even saw an actual kitchen sink end up at the local recycling center.

While visiting the Chesapeake facility, a Pilot reporter saw products including a toaster, a light fixture, mulch, pottery, clothes, baby shoes, pillows, electrical cords and lots and lots of plastic. Christmas lights often come through around January.

“When in doubt, throw it out,” Benedetto said. “It would save us a lot of money and a lot of risk.”

About a fifth of everything that comes through TFC is tossed in the trash.

It’s taken not to a landfill but to the incinerator plant in Portsmouth where it’s converted to steam energy for the Norfolk Naval Shipyard.

Here’s your mantra: Paper, bottles and cans. That’s all you should be recycling, Benedetto said.

For a long time, experts said, the industry mostly let wishful recycling slide because we could get away with higher levels of contamination.

“These instances of wishful recycling were never really curbed at the beginning,” Boehringer said. “When (China) imposed those restrictions, it was like a bucket of cold water. We’ve got to reduce the amount of contamination ... overnight, and that is a problem.”

The cleaner the material, she added, the higher the value for a company like TFC that has to sell it once it’s taken from your doorstep.

Legislation to allow localities to enact bans on single-use plastics like those pesky plastic bags has been continually proposed and rejected in Virginia. Among those hoping for such a law? The city of Virginia Beach. In feedback on recycling sent to the state this year, the city asked for help in pushing such legislation, as well as extending tax credits for businesses that eliminate single-use plastic items.



(Plastic) Bottles: Yes! It is important that they are clean and dry. It is not necessary to remove labels, but it is helpful to remove caps to ensure that no liquid gets trapped inside. Caps should be disposed of in the trash. (Sarah Holm/The Virginian Pilot)

To remove the cap, or not?

Take it off, Benedetto said. “A cap off the bottle will increase the probability that the bottle is empty.”

Machinery at the facility sorts plastic, and bottles with liquid cannot be properly crushed. “For fun, take a plastic water or soda bottle and put on the lid,” he said in an email. “Jump up and down on it. I bet you can’t crush it.”

Our plastic bottles are typically sold to companies in the Carolinas that fashion them into new plastic products including polyester and synthetic fibers for carpet, clothing and other products, he said. Most items that are nontoxic with a neck, such as laundry detergent or milk jugs, can be put in curbside recycling.

Other plastics can’t, but that’s not what people tend to think.

“There’s so much misconception out there,” Benedetto said. “And there’s a lot of greenwashing from the industry.”

Those little numbers 1-7 can be confusing, he added, leading people to think anything featuring one of them can be recycled. Around here, he only wants 1-2 — again, just bottles.

That clamshell you eat your salad out of? Throw it away. Same with disposable cups and utensils. Unless you find specific local places that can accommodate recycling those products.

The plastics industry is “always wanting to get it to you as cheaply as possible,” said MacDonald of Prince William County, and it’s fallen on waste haulers, processors and local governments to pick up the expenses on the other side. Increasingly, pressure needs to be put on the people producing the plastic to help pay for it, he said.

“If they had to pay for recovery, they might think twice about how they design their product.”



Aluminum cans: Yes! Aluminum is one of the quickest materials to recycle and turn into a new product. It can be on the market again in about 60 days. (Sarah Holm/The Virginian Pilot)

This is probably the best example of a “closed loop.” Even after all the changes to the recycling industry, an aluminum can still goes from the shelf at your local mini-mart to back on the market within 60 days.

Take a Tradition Brewing beer can that you toss into a bin in Newport News, for instance. After getting picked up in a truck, taken through the TFC facility and pressed into a bale, the can will likely be sold to a mill in Kentucky or Illinois, where it will be shredded into chips, melted down and made into an aluminum sheet.

“Drink beer out of cans,” Benedetto pleaded.

For municipalities in the commonwealth dealing with the fallout of the China shift, the biggest hardship has of course been increased costs, particularly for disposal.

When a hauler takes the recycling to drop off, they have to pay a tipping fee similar to a landfill, said MacDonald in Prince William County. In Northern Virginia, they’ve seen those fees rise by up to three times. He’s worried “certain parts of the industry could collapse.”

Cities around the country have started sending recycling to the trash, with or without public notice. In Virginia, it’s mostly smaller and more rural localities that have had to do so.

“We’re all reevaluating our recycling programs,” said Teresa Sweeney, education coordinator for the Montgomery Solid Waste Authority and also president of the Virginia Recycling Association. China “forced everybody to rethink how we’re doing things. We are doing this because we need to survive.”

Among those who have ended or restricted their recycling programs since the market shift: Harrisonburg, Staunton, Bristol, Winchester, Waynesboro, Washington County, Lexington, Dayton, Broadway, Virginia Tech.

A particularly difficult blow came when Tri City Waste Paper Co. along the Tennessee border closed earlier this year, Sweeney said. A lot of nearby localities had used the facility and couldn't afford to start shipping materials farther.

It's a constant cost-benefit analysis, Boehringer said, between transportation cost and value of the program. "So they made the decision to discontinue."

In urban areas such as Hampton Roads, it's played out a little differently. TFC announced it was pulling out of Norfolk last year, and the city had to scramble to get out a request for proposals, said Richard Broad, public works director. The company explained to city officials that it used to make enough money selling materials to cover the collection cost, but because of the newer slump in revenue had to add on a per-ton processing fee.

The city looked at what it would cost to mix recycling with trash and take it all to the Portsmouth plant instead, but a survey of residents — which got one of the highest responses ever for a citizen survey — showed overwhelming support for paying slightly more to keep the program, Broad said. The city council decided to keep recycling, and recently reached a new deal with TFC.

Broad said the council had also been afraid that "if we stepped out of the marketplace for a while, by the time they restarted" it would be difficult to retrain residents to recycle. The city did not want to send recycling to the trash without citizens' knowledge, he said, **as Portsmouth has done in the past.**

Now Chesapeake is confronting a similar situation. Suffolk is currently evaluating proposals for its curbside program. Costs went up for the Historic Triangle when they secured a new contract over the summer. Others are sure to follow.

"It's going to get worse before it gets better," said Lee of Alexandria.

Katherine Hafner, 757-222-5208, katherine.hafner@pilotonline.com



Rappahannock Regional Solid Waste Management Board

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To: R-Board Members
From: Joe Buchanan, Landfill Director
Date: November 20, 2019
Subject: Financial Status

Financial Status

Finances for the R-Board are in good shape through October 2019. The current revenue is up over 14% for the first four months of the year due to increases in commercial activity. Costs are in line with budget including capital costs. Currently the R-Board has \$14,017,172 in cash and short term investments.

New landfill Cell

The landfill current operating cell (F-2) is estimated to be filled to capacity in November, 2020. This was confirmed by the most recent calculations from Draper Aden (landfill engineers). The next cell (F-3) will cost \$4,000,000 based on estimates from staff and Draper Aden. This project will take one year to complete (see attached Gantt chart) including bid process and construction. The new cell is not in the current budget but can be paid by using current operating funds and unrestricted bank funds per the attached schedule. The cell construction will start in FY2020 and be completed in FY2021.

Below are the needed steps to proceed with new cell

1. Change current advanced payment for Cell F-2 (RB19-11)
2. Increase amount of Draper Aden contract (RB19-12)
3. Convert Sofia Gilani from part to full time (RB19-12)
4. Increase Commercial rates with Public Hearing (RB19-13)
5. Start excavation of new cell by staff - Started October
6. Use of tarps to reduce dirt usage by 50% extending life of current cell by one month. The new tarps have been ordered.
7. Prepare bid documents and wet lands permit that Draper Aden began in October within current P.O.



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Major Modifications to landfill (one year to complete)

1. Staff has identified 3 acres of landfill-able area currently used for a pump station. This area is not included in any permits for landfilling use. However, this area could be added to permit and add over 1 million cubic yards of airspace. Our next cell is 7.1 acres with 1.2 million yards of airspace. There will be landfill cell engineering costs and costs to relocate the pump station. Because of the location of this area, it will cost less to construct while adding this area will create operational efficiencies.
2. Our current construction design needs to be updated to include more efficient methods of building out a landfill cell that will save both time and costs.

Other Items

Changes to Convenience Center at Eskimo Hill

1. Move one of the gate attendant sheds to exit lane to have better cash management. This will allow for verification of daily receipts.
2. Create actual weight tickets for tracking of waste stream to landfill.

Methane Flare

1. Repair current electrical panel and repair VFD for costs of \$23,000

New Office Animal Shelter

Working with the County to move in prior to end of year for all office staff and landfill management to be at one location



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Financing Construction of Cell F-3

Current financial status

Cash in Bank (Wells Fargo)	\$5,051,915
Short term Investments	\$8,965,257
Total Funds	\$14,017,172

Current Liabilities

Landfill closure and Post Closure	\$7,515,568*
Operating cash (3 months of budget)	\$2,283,942
Total Liabilities	\$9,799,510

Net funds unrestricted **\$4,217,662**

Change in Advanced payment
(Resolution RB19-11) **\$1,000,000**

FY 2021 Budget F-3 new cell capital
To be determined **\$1,000,000**

Total Available for Building F-3 **\$6,217,622**

Costs to build Cell F-3 **\$4,000,000**

* Current landfill closure and post closure estimated 7.5 million. This is secured ½ by City and ½ by County with a letter from each CFO demonstrating financial responsibility passing DEQ financial test.

October 31, 2019

Revenue

		FY2020 Adopted Budget	Actual Year to Date	Budget Monthly Average	YTD Actual July	YTD Actual Aug	YTD Actual Sept	YTD Actual Oct
560-0000								
315-01-02	Interest on Investments	50,000	16,668	4,167	4,167	4,167	4,167	4,167
315-02-35	Rental Cell Tower Sites	12,000	3,564	1,000	0	0	2,376	1,188
316-25-01	Recycling Revenue	90,000	18,875	7,500	725	8,503	9,095	552
316-25-02	Commercial	6,250,000	2,625,833	520,833	616,511	620,352	680,734	708,236
316-25-03	Municipal-Stafford	40,000	13,332	3,333	3,333	3,333	3,333	3,333
316-25-04	Municipal-Fredericksburg	283,200	75,055	23,600	21,162	20,951	12,409	20,533
316-25-05	Sludge Disposal ST	350,000	121,573	29,167	33,577	32,779	19,511	35,706
316-25-06	Residential	685,000	152,125	57,083	44,050	39,340	34,245	34,490
316-25-10	Sale of LF Gas	50,000	12,254	4,167	0	12,254	0	0
316-26-05	Sludge Disposal FR	140,000	51,581	11,667	13,206	13,712	12,409	12,254
318-99-01	Miscellaneous	5,000	0	417	0	0	0	0
324-04-07	Litter Control	25,000	8,332	2,083	2,083	2,083	2,083	2,083
341-06-00	Prior Year Fund Balance	1,155,567	385,188	96,297	96,297	96,297	96,297	96,297
	Totals	9,135,767	3,484,380	761,314	835,111	853,771	876,659	918,839

101-00-00	Cash							5,051,915
105-56-00	Invests/R-Brd-PFM							8,965,257

October 31, 2019

Expenses

		FY2020 Adopted	Actual Spent to			
	33.42%	Budget	Date	% spent		Total Encumbrance
10-01	Salaries-Regular	1,473,070	478,476	32.5%		0
10-02	Salaries-Overtime	120,000	46,740	39.0%		0
10-03	Salaries-Part Time	106,190	33,844	31.9%		0
21-01	Social Security/Medicare	120,810	39,781	32.9%		0
22-10	VRS	146,250	48,005	32.8%		0
22-11	ICMA Hybrid Employer	5,000	3,826	76.5%		0
23-01	Anthem	377,301	116,065	30.8%		0
23-03	Opt-Out	2,020	810	40.1%		0
24-01	Life Insurance	19,340	6,715	34.7%		0
25-01	Unemployment	12,120	247	2.0%		0
25-21	Hybrid Disability Program	10,630	1,413	13.3%		0
27-20	Workers Compensation	53,640	22,426	41.8%		0
28-02	Compensated Absences	26,270	0	0.0%		0
28-09	License/Certifications	10,840	3,934	36.3%		0
28-20	Education/Tuition Assist	1,500	0	0.0%		0
30-15	Fees for Services	6,000	1,694	28.2%		0
31-08	Physical Exams	1,000	338	33.8%		0
31-20	Audit Fee's	8,250	4,126	50.0%		0
31-30	Management Services	180,365	45,994	25.5%		71,344
31-44	Environmental Monitoring	111,500	27,851	25.0%		72,276
31-50	Legal Services	21,000	3,500	16.7%		14,500
31-52	Filing Fee's	30,000	28,520	95.1%		0
31-64	Single Stream Processing	175,000	19,097	10.9%		147,105
31-67	Household Hazardous Waste	80,000	35,437	44.3%		0
31-68	Tire Disposal	100,000	29,171	29.2%		0
33-09	Facilities-Buildings	11,310	110	1.0%		0
33-10	Repairs & Maintenance	295,000	48,485	16.4%		82,146
33-20	Contracts	67,500	12,070	17.9%		11,291
34-05	Transportation	1,500	100	6.7%		0
35-01	Printing & Binding	7,000	2,663	38.0%		0
36-11	Public Notification	500	0	0.0%		0
36-12	Other	1,000	375	37.5%		0
39-10	Litter Control	68,000	9,023	13.3%		0
40-07	Admin Charges-Fiscal Agnt	283,425	141,712	50.0%		0
51-10	Electrical	20,000	3,967	19.8%		0
51-30	Water & Sewer	9,900	3,488	35.2%		0
52-10	Postage	3,000	63	2.1%		2
52-30	Phone	16,000	3,691	23.1%		0
52-31	Mobile Phones	14,000	2,517	18.0%		0
52-38	VOIP Eqp Billing	4,300	2,113	49.1%		2,000
53-04	Property	44,000	44,000	100.0%		0

		FY2020 Adopted	Actual Spent to			
	33.42%	Budget	Date	% spent		Total Encumbrance
53-05	Motor Vehicle	27,500	27,500	100.0%		0
54-10	Equipment	55,850	0	0.0%		0
54-20	Building or Office	16,000	0	0.0%		0
55-10	Mileage/Parking/Tolls	1,200	329	27.4%		0
55-40	Seminars & Conferences	5,000	145	2.9%		0
55-41	Meeting Expenses	2,000	372	18.6%		0
58-01	Dues & Membership	1,500	415	27.7%		0
60-01	Office	8,000	1,420	17.8%		3,644
60-03	Agricultural-Lawn Care	4,000	1,060	26.5%		
60-05	Custodial-Janitorial	12,000	3,782	31.5%		2,357
60-07	Repairs & Maintenance	434,925	141,528	32.5%		160,789
60-08	Vehicle Fuels	350,000	85,871	24.5%		183,684
60-11	Uniform & Wearing Apparel	33,000	6,887	20.9%		0
60-12	Books/Subscriptns/Sf Media	1,000	208	20.8%		0
60-14	Operating	5,500	1,943	35.3%		0
60-19	Personnel Safety Equip	4,000	2,779	69.5%		573
60-20	Vehicle Parts & Tires	36,500	8,181	22.4%		0
60-31	Machinery & Equipment	21,555	10,679	49.5%		1,497
60-32	Furniture & Fixtures	1,500	0	0.0%		0
60-33	Communications Equipment	500	0	0.0%		0
60-34	Computer Equipment	5,050	2,400	47.5%		0
60-47	Site Improvements	138,000	10,654	7.7%		4,700
81-01	Machinery & Equipment	185,000	0	0.0%		52,469
81-12	Improvements to Buildings	0	0			26,635
82-01	Machinery & Equipment	1,214,143	741,635	61.1%		232,423
82-11	Improvements to Site	1,681,340	0	0.0%		0
82-12	Improvements to Building	12,850	0	0.0%		0
82-13	Land	479,300	0	0.0%		0
82-15	Cell Improvements	354,023	0	0.0%		0
Totals		9,135,767	2,320,175	25.4%		1,069,435



Rappahannock Regional Solid Waste Management Board

Annual Financial & Operational Report

Fiscal Year

2019





Rappahannock Regional Solid Waste Management Board

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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 began to prepare for the construction of a new landfill cell, F-3 towards the end of FY19. A flyover provided by Draper Aden Associates (DAA) indicated that the current landfill cell, F-2, will be filled to capacity in November 2020. Located within the limits of Cell F-3 is a designated Wetland area. DAA is also responsible for the permitting of this area so it may be impacted during construction. The R-Board has been excavating the future area of F-3 and using the soil for daily cover on F-2. This allows for a head-start on preparing the new F-3 areas, as well as creating a shorter path from daily cover to F-2.



The R-Board is pursuing the installation of new commercial scales. DAA will be assisting on this project.





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In FY19 the R-Board authorized about \$869,000 for new equipment. This was necessary to improve the efficiency of landfill operations. Two such pieces of equipment are a compactor and roll-off truck. The compactor (*below, left*) replaced an older compactor which has serviced the landfill for thirty years. The new compactor weighs over 10 tons more which will assist in achieving higher compaction rates. Higher compaction rates increase the airspace for trash and allow the R-Board to utilize the full capacity for landfill cells. The new roll-off truck (*below, right*) is being used to haul sludge and service off-site box hauling operations. These off-site operations include the Belman Road Convenience Center and the six recycling drop off containers in Stafford and the City of Fredericksburg. The old roll-off is now off the streets and being used at the landfill to move residential boxes from the residential convenience center to the working face.



The R-Board continued to offer residents waived fees for storm debris. Both residents of Stafford and the City of Fredericksburg have utilized the waived fee events.





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The R-Board has a Memorandum of Understanding (MOU) with the Stafford Detention Center. The MOU states that the Detention Center provides detainees to conduct community service work at the Landfill in exchange for free MSW disposal. The detainees provide additional maintenance support by picking up trash, painting, landscaping, and overall litter control on the landfill grounds. Pictured below is Superintendent Rice presenting to R-Board staff. The presentation covered best management practices for interacting and supervising detainees.



R-Board staff re-planted a tree in memory of Dee Morton. Dee Morton was a gate attendant with a vibrant personality and special skills with people.





Rappahannock Regional Solid Waste Management Board

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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 are 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

The R-Board received approval for the Part A Modification Application where the facility boundary is 325.3 acres and the waste management boundary is 80.5 acres. The approval also includes a daily tonnage of 1,200 tons per day. This was approved after a Virginia Department of Transportation approval and adequacy report where there are no appreciable impacts in terms of vehicular traffic on roads in the vicinity of the facility due to the increase.

The R-Board is also requesting a resurrection and approval of Alternative Points of Compliance (APC). This request is to include two groundwater monitor wells to replace three current wells: MW-5, MW-5A, and MW-9R.

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

Stormwater sampling is required twice a year. The R-Board has four VPDES permitted stormwater ponds and outfalls to sample. Field measurements indicate that the naturally occurring runoff is quite acidic.

The Regional Landfill must comply with numerous additional state and federal regulations requiring constant vigilance and continuing education of our staff. We constantly review procedures to better position our operations to stay in compliance.



Rappahannock Regional Solid Waste Management Board

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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** – SWANA Various Topics Training,
- **James Canty** – Waste Management Facility Operator Class I & Class II DPOR Course Completion Certificate, DEQ Universal Waste Training, Annual Safety Summit Training
- **Diane Jones** – SWANA Various Topics Training,
- **Susan Carpenter** – SWANA Various Topics Training, DEQ Universal Waste Training
- **Sofia Gilani** - Waste Management Facility Operator II License, Attended: International Conference on Solid Waste Technologies; Mid Atlantic Marine Debris Summit, SWANA Various Topics Training,
- **Darrell “Scott” Huffman** – DEQ Universal Waste Training,
- **Mike Cross** – Waste Management Facility Operator II License, DEQ Universal Waste Training, SWANA Annual Safety Summit Training
- **Jared Koszyk** –VA Class A CDL
- **John Becker** –VDOT Flagger Certification, Waste Management Facility Operator Class I & Class II DPOR Course Completion Certificate, DEQ Universal Waste Training, Annual Safety Summit Training, PRCF training: Road Side Safety and Storm Safety
- **Cameron Morrow** – Received: VDOT Flagger Certification, Waste Management Facility Operator Class I & Class II DPOR Course Completion Certificate, DEQ Universal Waste Training
- **Colin Gray** – Received: VDOT Flagger Certification, Annual Safety Summit Training, PRCF training: Road Side Safety and Storm Safety
- **Donald Skinner** – Received Waste Management Facility Operator Class I & Class II DPOR Course Completion Certificate
- **Dennis Kenworthy** – Received Waste Management Facility Operator Class I & Class II DPOR Course Completion Certificate, DEQ Universal Waste Training
- **Douglas “Web” Webster** – Received Waste Management Facility Operator Class I & Class II DPOR Course Completion Certificate. Recognized: Make a Difference Campaign for new leadership role
- **Barbara Miller** – Received Waste Management Facility Operator Class I & Class II DPOR Course Completion Certificate
- **Hope Mikelson** – Received Waste Management Facility Operator Class I & Class II DPOR Course Completion Certificate
- **M.C. Morris** – Received DEQ Universal Waste Training, PRCF training: Road Side Safety and Storm Safety
- **Mike Wolfrey** – Received: VA Class A CDL with Tanker Endorsement



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The following employees were promoted:

- Sofia Gilani to Environmental Technician
- Douglas “Web” Webster to Landfill Heavy Equipment Maintenance Manager
- Susan Carpenter to Landfill Scalehouse & Maintenance Manager
- Darrell “Scott” Huffman to Scales Technician
- Jared Koszyk to Operator II
- Donald Skinner to Operator II
- Dennis Kenworthy to Operator II
- John Becker to Maintenance Worker II
- Cameron Morrow to Maintenance Worker II
- Colin Gray to Maintenance Worker II

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

- James Canty – 3 years
- Sofia Gilani – 3 years
- Donald Skinner – 20 years

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

- Keith English

The R-Board recognizes and welcomes the following employees hired in FY2019:

- John Becker
- Colin Gray
- Darrell “Scott” Huffman
- Jared Koszyk
- Donald Rose
- Bryan Searson
- Jerry Bass
- Dee Anna Ferrell



Operational and Financial Performance

Residential Usage Fee

Residential fee revenue increased slightly in FY2019 to \$624,382 from \$583,156 in FY2018. This was above the budgeted revenue of \$600,000 by about 4%.

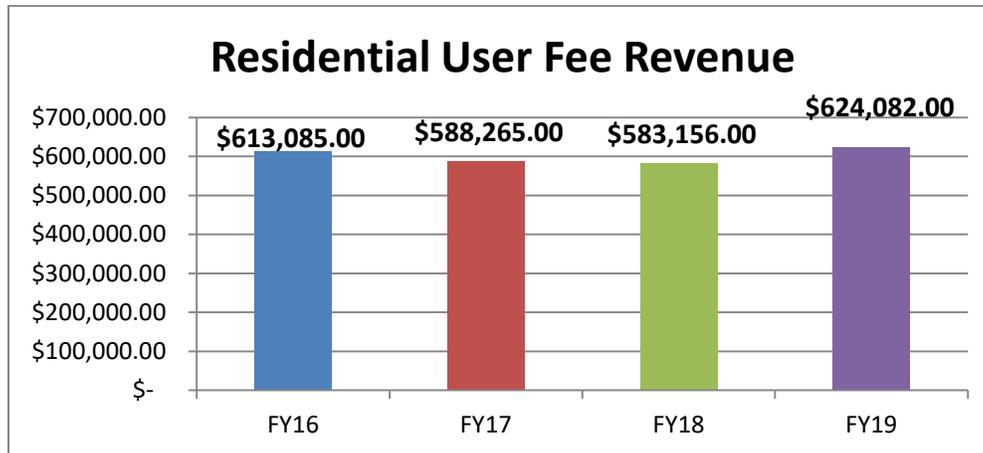


Figure 1 Residential User Fee Revenue

The R-Board continues to provide sales opportunities at five locations: Eskimo Hill Landfill, R-Board Office, Online, Stafford Treasurer, and City of Fredericksburg Treasurer. The Landfill generates both the most revenue at \$493,010 which is 79% of revenue and the most number of transactions at 54,786 or 96.28%. The City of Fredericksburg Treasurer generates the 9% of the total revenue while only having 1.33% of total transactions.

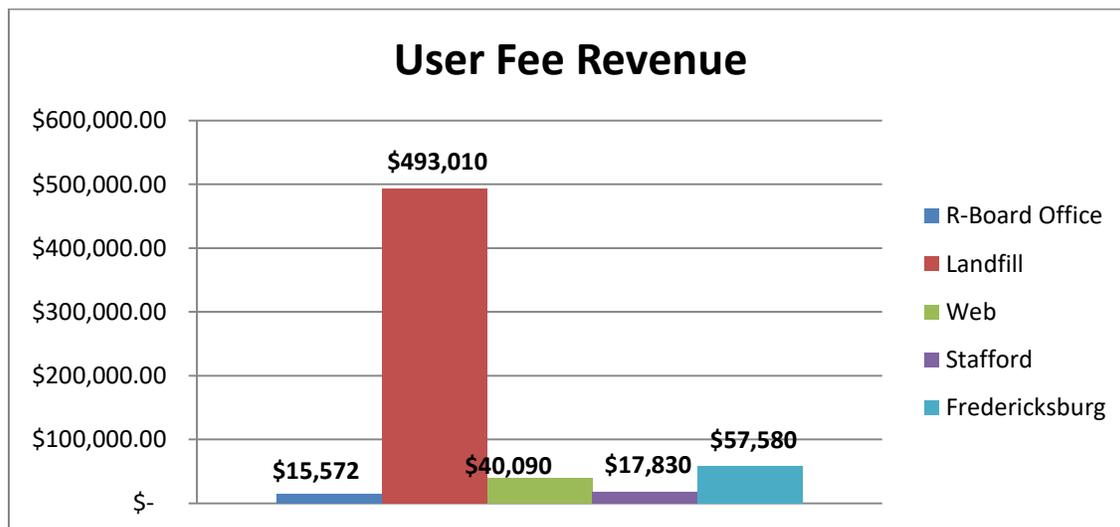


Figure 2 User Fee Revenue



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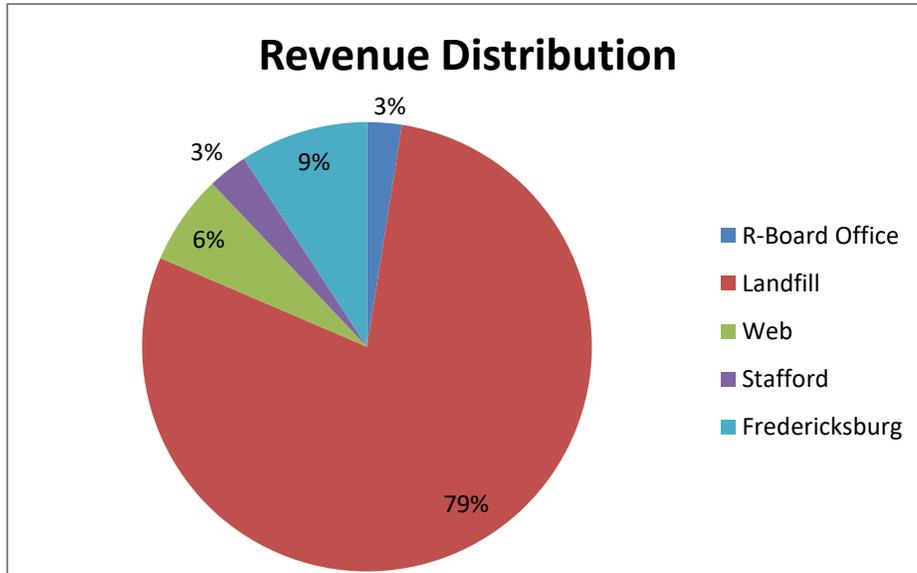


Figure 3 User Fee Revenue Distribution

The R-Board Office has minimal impact on the total revenue or number of transactions. When the offices are moved to the old animal shelter building next to the Landfill, in person sales will no longer be provided but staff will continue to process online sales.

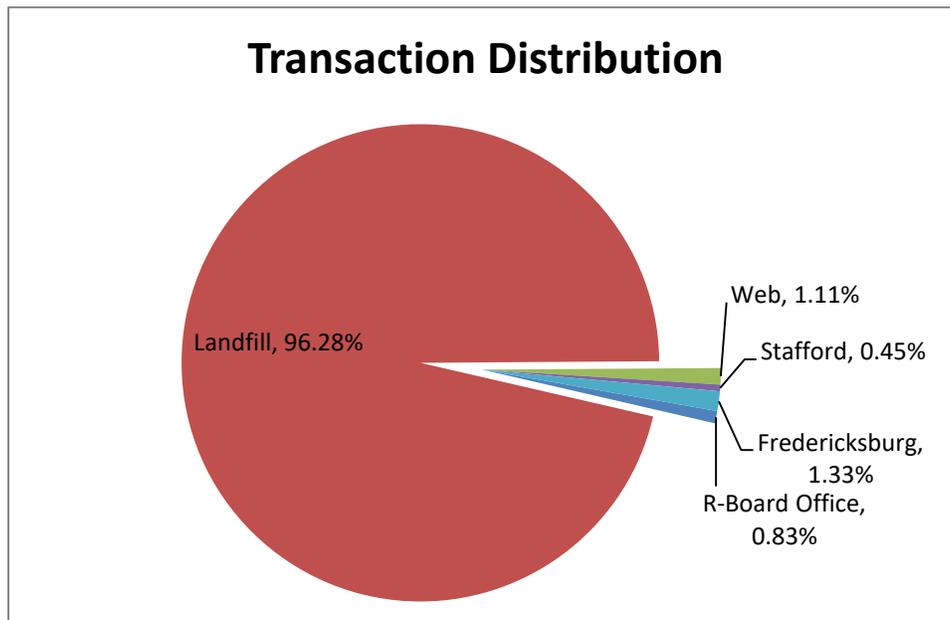


Figure 4 User Fee Transaction Distribution



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One-visit passes make up the largest portion of total transactions at 47,523 out of 57,014. However, most of the revenue comes from the sale of annual passes which generates \$241,600 out of \$624,382.

Type	Transactions	Revenue
Annual Passes	2,413	\$ 241,300.00
Coupon Books	5,119	\$ 153,570.00
One Visit Passes	47,523	\$ 190,092.00
Other Cash Collection	1,956	\$ 39,120.00
Total	57,014	\$ 624,082.00

Table 1 User Fee Transaction vs Revenue

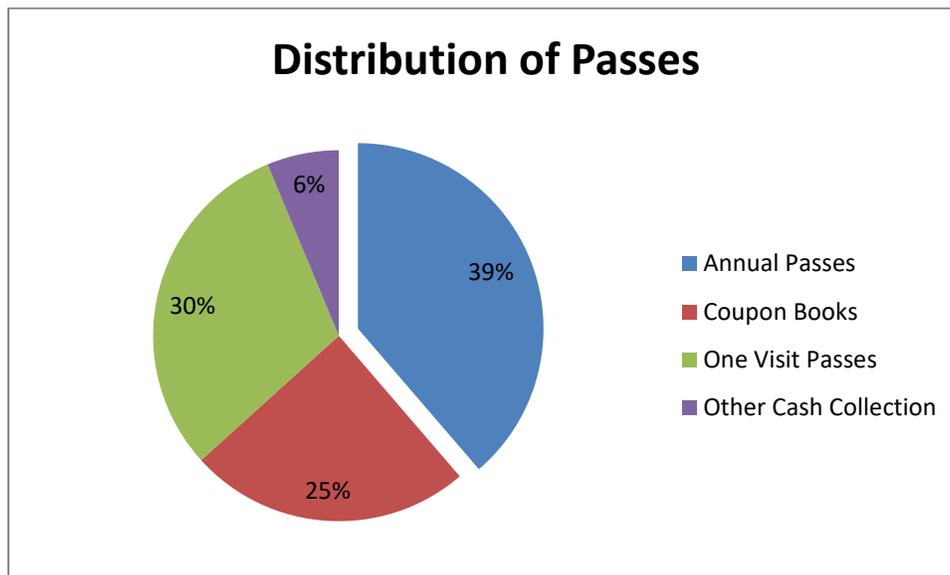


Figure 5 Distribution of Pass Types



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Financial Summary (Unaudited)

	Adopted FY19	Actuals	Under/Over
Commercial	\$5,500,000	\$6,604,514	20%
Resident User Fees	\$600,000	\$619,068	3%
Recycling	\$120,000	\$90,322	25%
Utilities sludge/dirt/debris	\$250,000	\$458,331	83%
Fredericksburg sludge	\$140,000	\$141,064	0%
Municipal	\$278,000	\$269,455	-3%
Miscellaneous	\$5,000	\$00.00	-100%
Sale of Landfill Gas	\$35,000	\$32,156	-8%
Milestone Lease	\$12,000	\$18,215	52%
Grants	\$22,000	\$29,171	33%
Interest	\$45,000	\$93,530	200%
Reserve Fund	\$0	\$0	0%
TOTAL	\$7,007,000	\$8,355,826	19%

Table 2 Unaudited Financial Summary



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Weight and Material Summary

CATEGORY	FY2019 Y-T-D Weight	FY2018 Y-T-D Weight	Difference %
Billable			
Commercial Waste	63438	62338	2%
Residential Waste	41727	37256	12%
Fredericksburg	8185	8004	2%
Eskimo Hill	21435	19748	9%
Belman Road	1294	1648	-21%
Mixed Load-\$71/T	164	110	49%
Debris Waste	67749	71255	-5%
Dirt	3702	2288	62%
Tires Commercial	451	479	-6%
Sludge (city)	5037	5225	-4%
Sludge (county)	14079	11277	25%
BILLABLE TONNAGE	227260	219628	3%
Non-Billable			
Litter/Cleanups	54	80	-33%
Recycling	7550	7931	-5%
TOTAL TONNAGE	234863	227639	3%

Table 3 Weight and Material Summary



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Portfolio Composition

Security Type	30-Jun-18	% of Portfolio
U.S. Treasuries	\$2,852,468	32.00%
Federal Agencies	\$2,239,935	25.13%
Commercial Paper	\$1,439,999	16.16%
Corporate Notes/Bonds	\$1,093,098	12.26%
Certificates of Deposits	\$1,117,205	12.53%
Money Market Fund	\$42,587	0.49%
Municipal	\$127,396	1.43%
Total	\$8,912,688	100.00%

Table 4 Portfolio Composition

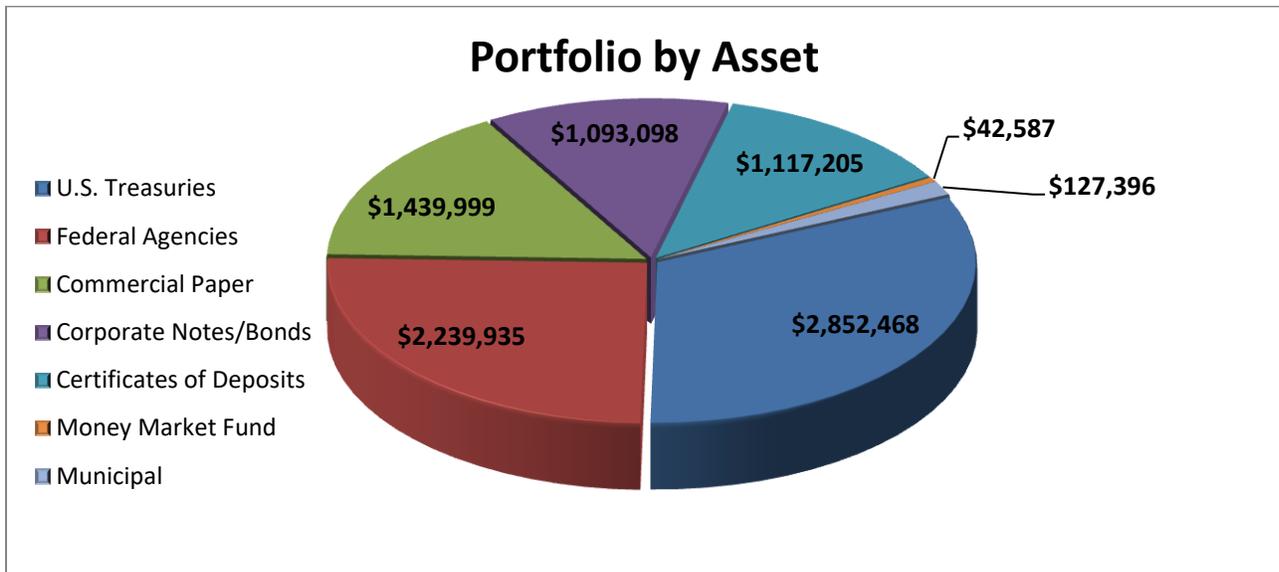


Figure 6 Portfolio by Asset

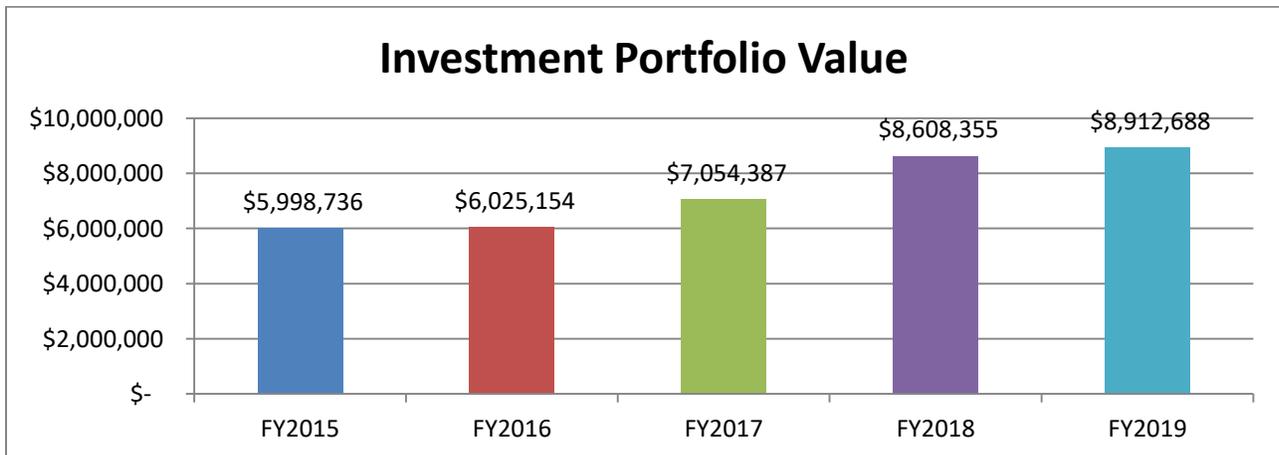


Figure 7 Investment Portfolio Value



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Recycling and Diversion

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

During FY19, the costs associated with single stream recycling continued to escalate. The R-Board's contract with the recycling vendor, Tidewater Fibre Corporation, was modified to include transportation costs. The commodity value base for the recycling program transformed from a positive worth to a negative cost. The R-Board provided additional funding to allow for the continuation of the recycling program.

In response to the escalating costs, initiatives have been put into place to alleviate the financial burden. One of these initiatives was to provide residents with a separate cardboard container at Eskimo Hill. Cardboard separation is desired due to the positive value of the material. This initiative has been met with success in capturing large or un-broken down cardboard boxes.

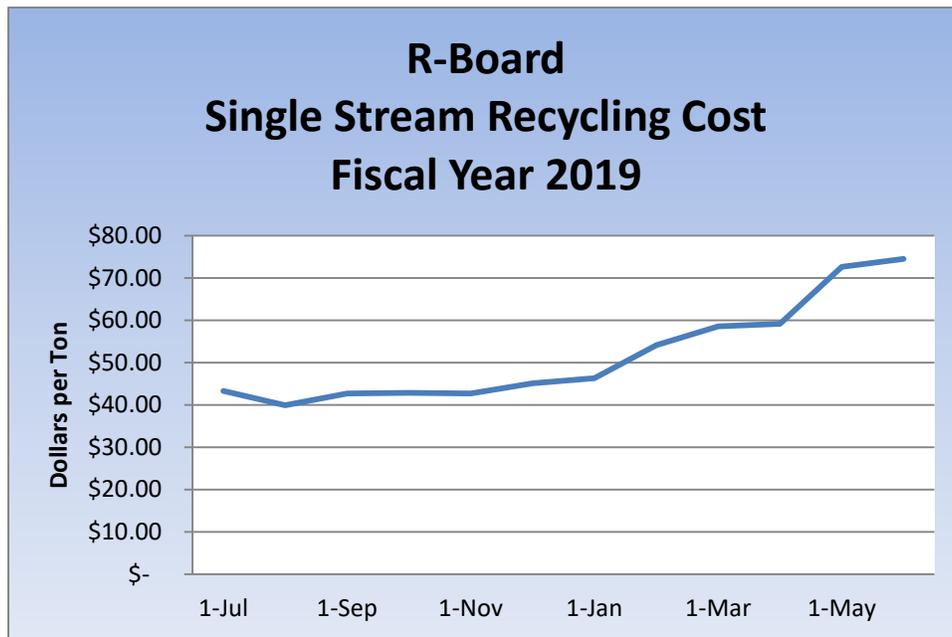


Figure 8 Single Stream Recycling Cost

The second initiative to ease financial burden was to begin a campaign to offer voluntary separation of glass which has a negative value. The voluntary campaign was implemented at both residential centers at Belman Road and Eskimo Hill. This has been met with success with 40 tons of glass collected. The collected glass is being used as road bed base on landfill roads.

Due to market fluxes, the R-Board was required to increase the tipping fees for the recycling of tires. The fee for regular tires increased from \$120/ton to \$160/ton while the increase for large tires was \$210/ton to \$270/ton. Scrap metal prices declined but did continue to produce revenue for the R-Board.

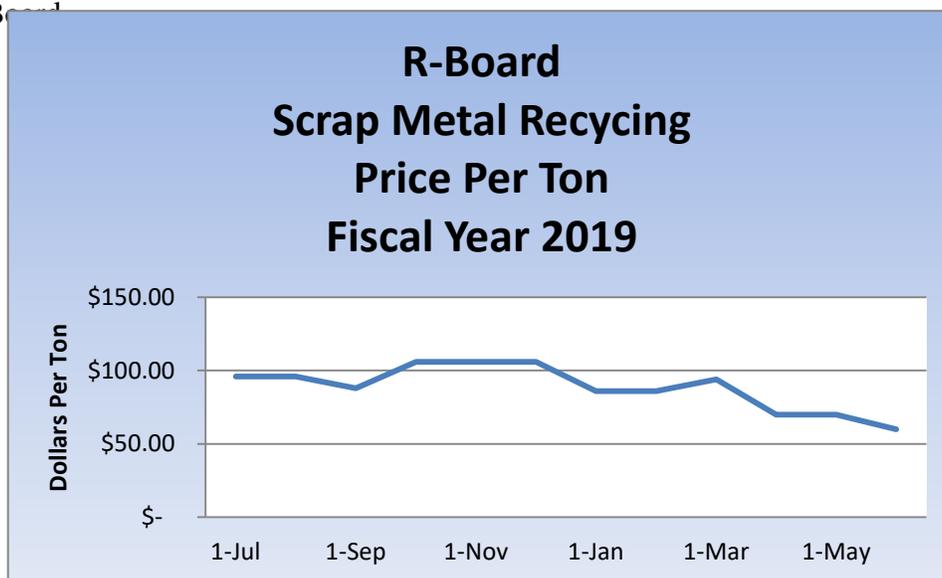


Figure 9 Scrap Metal Recycling Price per Ton



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Cooking oil collection is a service provided to residents at the Eskimo Hill center. This fiscal year, the service was extended to the Belman Road residential center. The collection began in May 2019 with a 300 gallon container that was filled within the first 60 days on site.





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Household Hazardous Waste Collection

The R-Board collaborates with Rappahannock Goodwill Industries to provide Electronic Waste collection alongside the Household Hazardous Waste (HHW) collection program. In FY19, the HHW event was held in the City of Fredericksburg. This event served 424 residents of Stafford County and the City of Fredericksburg. Additionally, 8,950 gallons of hazardous waste material was collected.

In addition to the HHW program, the R-Board offers year round collection of oil, antifreeze, and fluorescent light bulbs at the two residential convenience centers. The year round collection resulted in the recycling of 26,000 gallons of oil and antifreeze. It also resulted in 70,000 linear feet of fluorescent bulbs and 1,200 compact bulbs being collected. Since the bulb collection began in Spring 2006, nearly 3000,000 linear feet of fluorescent bulbs have been collected and recycled.





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Litter Control

In the third quarter of 2018 new personnel were on staff to provide litter control and community outreach. Three employees began work on the newly formed Clean Community (C2) Crew. The goals of maintaining the 1400 miles of public roadway as free from litter as possible, has continued to be a top priority of the R-Board. The initial emphasis of this work was on training and team building, as well as assessing the most critical areas of need, and providing a structure for a routine schedule for this work. By early 2019 the following strategic approach was in place:

- Divide the service area of Fredericksburg and Stafford into five districts
- Renewed commitment of personnel was retained from the Rappahannock Regional Jail (RRJ), and the Office on Youth (OOY); both groups are financially supported via R-Board funding to provide roadside cleanup services for Fredericksburg and Stafford.
- The major roads of Jefferson Davis Highway, Warrenton Road, Kings Highway, White Oak Road, William Street, and Garrisonville Road, Cowan Blvd, Fall Hill Avenue will be closely monitored and supported primarily by the RRJ and OOY, as they have bigger crews for this activity.



- The Adult Probationary Program (APP) was restarted with litter control primarily on secondary roads where constant need for “pop up” are ever present.
- Each road with 2000+ average daily traffic count was considered a priority road for the C2Crew and was included in the rotation. Each district would be cleaned at least two times per year. Illegal sign monitoring and removal remained a priority
- Individual groups of volunteers working with Adopt-A-Highway were contacted and thanked for their years of service. New volunteer organizations were provided supplies and support when conducting clean ups. Both were provided appreciation via our social media engagement and attending meetings to thank the organizations.



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Litter Grant

The R-Board applies each year for the VADEQ Non-Competitive Litter Grant. The award is based upon a revenue stream which is contributed through beverages sales to a designated fund held by the Commonwealth of Virginia. The distribution of this fund is predicated upon completion of certain requirements, but as the name indicates it is not weighed based upon performance. In FY2019 we received \$29,171.00 for our service area. This grant is used for operational supplies for litter cleanup, environmental education and outreach. Through the support of this grant the R-Board's Clean Community Crew, with assistance of Adult Probationers, Office on Youth, the Rappahannock Regional Jail, and volunteers, continue to be the primary agents for litter control in Stafford County and the City of Fredericksburg.



Geico volunteers in City Cleanup



Kris cleans his neighborhood in Southern Stafford



Partnering on environmental stewardship activities with youth-based organization is a top priority.

The R-Board supports special cleanup activities with Friends of the Rappahannock, Fredericksburg Clean and Green Commission, Green Aquia, numerous scout troops, and other individuals, corporations, churches, and civic organizations.



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Cleanup Statistics:

- Office on Youth performed 11 cleanups
- 28 court-appointed community service participants provided an estimated 1,103 hours of roadside cleanup, at no cost to the R-Board.
- The Rappahannock Regional Jail collected nearly 13 tons of trash and were on the road 77 times during the fiscal year.
- C2 Crew Collected more than 65 tons of trash during FY19

Clean Community, Outreach, Partnerships & Environmental Education:

A total number of 7342 volunteer hours were tallied to create and support initiatives that educate the public and are devoted to promoting a cleaner/greener community.

- 23 Presentations/Workshops were provided with 997 people in attendance
- 7 Tabling Events reaching an estimated 2504 people
- Media Outreach Measured an Impact of 4604, based upon online listenership and readership (Free Lance-Star Editorial, Front Page Coverage on Recycling and Radio Interviews with B101.5/Newstalk 1230)
- Social Media Presence increased dramatically.

Facebook audience on July 1, 2018 = 185; July 1, 2019 = 480

Our social media presence has increased dramatically, during the last fiscal year, as the number of lifetime likes has more than doubled. Below are the top five posts from the last fiscal year.

Rappahannock Regional Solid Waste Management Board is with Taylor Burruss and 2 others.
Published by MC Morris [1] · October 8, 2018 · 🌐

OUR RIVER says thank you and so do we... first - where to start? Thank you - Friends of the Rappahannock for organizing, inspiring, and supplying the tools for such a wonderful river cleanup! The volunteers were AWESOME... and then some! Check out these dirty, happy faces! We were happy to participate as event partners and ❤️ the smiles of every sweaty variety!

Rappahannock Regional Solid Waste Management Board
Published by MC Morris [1] · March 1 · 🌐

Hoping to spread the word to City residents about voluntary (and deeply appreciated) glass recycling. Thanks Councilor Billy Withers and Alma for separating your glass - and for opening your home to make this short video.
Fredericksburg Government, Va
Fredericksburg Parks, Recreation & Events
Fredericksburg Police Department
B101.5
NewsTalk1230 WFVA
Fredericksburg Parent and Family

Residents recycle for FREE at Belman & Eskimo Hill.

2,074 People Reached 421 Engagements Boost Post

Rappahannock Regional Solid Waste Management Board
Published by MC Morris [1] · April 15 · 🌐

Landfill Fee Waiver - The Rappahannock Regional Solid Waste Management Board (R-Board) is temporarily waiving fees for the disposal of yard debris from residents, effective immediately through April 29, 2019, when delivered to the Regional Landfill at Eskimo Hill. The waiver applies only to the disposal by residents, not commercial firms, and is only in effect at the Eskimo Hill site. Our Belman Road convenience center is unable to process large quantities of yard debris.

Fee waived for yard debris
Through April 29th



Rappahannock Regional Solid Waste Management Board

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Rappahannock Regional Solid Waste Management Board
Published by MC Morris [?] · March 26

Troop 26, KICKS!
Troop 26 KICKS TRASH! They adopted Eustace Road and for more than 8 years they have routinely kept it clean! We visited their Court of Honor tonight to say "thank you!" ALL of those in this photo have spent time picking up trash along this stretch!
The entire community should salute them! We surely do!
Keep Virginia Beautiful
Boy Scouts of America
Mount Ararat Church



Rappahannock Regional Solid Waste Management Board is
with Mary Katherine Greenlaw.
Published by MC Morris [?] · September 1, 2018

What happy faces at the Fredericksburg, VA Farmers Market. (some were furrer than others.) Doggie "pick-up" biodegradable baggies were a big hit! It was great fun to work with the Fredericksburg Clean & Green Commission today in #Fxbg.



Three new social media platforms were added to our messaging strategy.

Instagram, Twitter, and YouTube allow different demographics to engage more fully with our messaging. YouTube is the platform for education - results specified on next page

- 18 Landfill Tours Provided to wide-ranging interest groups including - Homeschoolers, Scouts, Public School Students, College Students, and International Visitors
- 10 Composting Class educated many new composting converts. This program is conducted in partnership with the Master Gardeners of Central Virginia and the Central Rappahannock Regional Library





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New Programs:

As part of our continued outreach to new audiences the R-Board has produced several videos to expand our ability to message more fully to a broader audience. In February Councilor Billy Withers encouraged the Citizens of Fredericksburg to voluntarily separate their glass. The video received **more than 2074 views** on Facebook and has been subsequently placed on the R-Board’s YouTube Channel. Seeing this positive result the staff intends to provide a variety of messages through both “homegrown” and professional produced video. The R-Board’s video channel is found here - <http://bit.ly/322TzQF>.



The R-Board partnered with the Stafford County Public Schools to hold an Art Contest in conjunction with their annual Stafford Arts Festival in March 2019. 161 pieces of art were entered and the quality of work was amazing. The contest focused on converting materials, that would normally be discarded or recycled, into works of art. 522 ballots were cast in the art contest to determine “The People’s Choice Award.” Additionally six judges were also engaged to name the other nine contest winners. The impact of this weekend of activity is projected to have directly reached 1200 adults and youth combined, not including the front page article in the Free Lance Star.



Supervisor Cindy Shelton, Commissioner of the Revenue Scott Mayausky and Artist Sue Henderson served on a panel of judges that awarded prizes for nine lucky students. 1st, 2nd, and 3rd place small monetary awards were given as well as a “People’s Choice” Award voted on by attendees. Every participant received a thank you letter in the mail as well as a surprise and a premium participation ribbon for sharing their time and talent to enter the contest.



Rappahannock Regional Solid Waste Management Board

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To: R-Board Members

From: Joe Buchanan, Director

Date: November 20, 2019

Subject: Adjustment of the pre-payment for Cell F-2 debt, for use in construction costs associated with the construction of Cell F-3

The R-Board is asked to consider authorizing the adjustment of the FY 2020 budget to reduce the loan payment for Cell F-2 to the original amount of the loan.

RB19-11 – Authorize an adjustment of the pre-payment for Cell F2 for use in the construction of Cell F3

The original payment for this debt is \$681,340, paid equally to the City and the County each year, and the Board approved a prepayment of \$1,681,340 in the current budget year to retire the loan. Staff recommends a payment of the current amount of \$681,340, and redirects the \$1,000,000 to the development of Cell F-3 which will begin in FY 2020, for which monies were not budgeted. Staff intends to pay for the construction of the new cell without incurring additional debt.

Cell F-3 will cost approximately \$4 million dollars to build, which includes engineering, bidding and construction costs. The timeline to build will take one year and will be completed by November, 2020. Staff is undertaking several measures to extend the current life of the Landfill. These measures include the use of tarps to cover each day (reduction of 10% daily use of available airspace), the addition of Sofia Gilani to a full-time position to manage and control construction costs and keeping timeline on track, and the addition of an in-house GPS system to ensure full utilization of compacting waste on daily basis versus waiting on semi-annual flyovers for available capacity.



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RB19-11

PROPOSED
RAPPAHANNOCK REGIONAL
SOLID WASTE MANAGEMENT BOARD

RESOLUTION

At a regular meeting of the Rappahannock Regional Solid Waste Management Board (R-Board) held in the Board of Supervisors Chambers, George L. Gordon, Jr., Government Center, Stafford, Virginia, on the 20th day of November, 2019:

MEMBERS:

Cindy C. Shelton, Chairman
Mathew Kelly, Vice Chairman
Timothy J. Baroody
Meg Bohmke
Thomas C. Foley
William C. Withers, Jr.

VOTE:

On motion of , seconded by , which carried by a vote of , the following was adopted:

**A RESOLUTION TO AUTHORIZE AN ADJUSTMENT OF THE PRE-PAYMENT FOR
CELL F2 DEBT FOR USE IN THE CONSTRUCTION OF CELL F3**

WHEREAS, the R-Board is committed to providing high quality solid waste services to the residents and businesses in the City of Fredericksburg (City) and Stafford County (County); and

WHEREAS, the R-Board is also committed to operating the Rappahannock Regional Landfill in a cost effective and financially sustainable manner; and

WHEREAS, the R-Board desired to retire the debt incurred for construction of Cell F2 prior to construction of Cell F3, resulting in a payment of \$1,681,340 in the current fiscal year; and

WHEREAS, staff desires to change the pre-payment of \$1.6 million dollars to a regular payment of \$681,340, leaving \$1 million dollars available for the development of Cell F3;

NOW, THEREFORE BE IT RESOLVED, by the Rappahannock Regional Solid Waste Management Board on this the 20th day of November, 2019, that the adjustment of the pre-payment of the Cell F2 debt in the amount of Six Hundred Eighty-one Thousand and Three Hundred Forty Dollars (\$681,340) for Cell F2 and One Million Dollars (\$1,000,000) for construction of Cell F3 be and it hereby is approved.

A Copy, teste:

RAPPAHANNOCK REGIONAL SOLID WASTE
MANAGEMENT BOARD

Joseph A. Buchanan, Director



Rappahannock Regional Solid Waste Management Board

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

To: R-Board Members

From: Joe Buchanan, Director

Date: November 20, 2019

Subject: Contract Increase in Preparation of Construction of Cell F-3; Conversion of Environmental Position from Part-time to Full-time

The R-Board is asked to consider authorizing an increase to the current budget for environmental services needed for preparing bid construction documents for the building of Cell F-3, including wetlands permitting and additional services as needed for engineering. Also for consideration, is the conversion of the Environmental Technician position from part-time to full-time.

RB19-12 – Contract with Draper Aden Associates for Professional Services

The R-Board authorized Draper Aden Associates (DAA) to provide environmental and engineering services for the Regional Landfill in 2017, including the technical advice for new cell development. Staff has been very pleased with DAA and has approved its current contract until June 30, 2020. The current contract does not include the monies needed for the bid documents and the wetlands permit for Cell F-3. The current Cell F-2 will reach capacity in November, 2020, and the process to construct Cell F-3 will take approximately six months to prepare and award bid, and six months to construct and permit. The R-Board attorney Mr. Bill Hefty was asked to provide a legal opinion regarding the ability to increase this current contract and gave the opinion that the R-Board would be able to increase the current contract with an affirmative vote. The additional amount will be funded by a reduction of \$1 million in the budgeted payment. The current charge is \$165,000. Once the bid is prepared and awarded, an additional \$600,000 may be needed, based on bids for the construction phase. An email from Mr. Hefty follows this memo, and the engineering costs for Cell F3 are:

Wetlands:	\$40,000
Mitigation	\$220,000
Bid Docs	\$65,000
Bid	\$20,000
CQ & A	\$245,000
Extra Wells	\$120,000
New Well	\$13,400



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Sofia Gilani joined the R-Board Office as an intern, three years ago. Her position was converted to part-time in July, 2018 as an Environmental Technician. She graduates in December with B. S. in Environmental Science, with a concentration in Ecological Science. During her time with the R-Board she has obtained her Landfill license and has worked closely with DAA in providing key reports, and also works closely with the Department of Environmental Quality (DEQ) regarding our current permits. Sofia would be involved in project management for Cell F-3 and helping to reduce ongoing costs associated with the construction of Cell F-3. Sofia would also manage and monitor our environmental engineering costs while ensuring the Landfill stays in full compliance with the Department of Environmental Quality. Staff highly recommends Sofia for a full-time position. This will increase the payroll budget line by \$17,472 annually. This budget line has sufficient funds due to several unfilled positions in the first half of the fiscal year. Her resume follows this memorandum.

From: [Bill Hefty](#)
To: [Joe A. Buchanan](#)
Cc: [Brendan Hefty](#)
Subject: Re: R-Board Draper Aden Contract and Amendment #3
Date: Thursday, October 10, 2019 5:35:46 PM
Attachments: [image001.jpg](#)
[image002.png](#)
[image003.png](#)

Joe. I have reviewed the contract, and I think the contract can be amended to increase the payment to Draper Aden for work on the new cell construction. The contract includes a general statement about working on cell construction, as well as other general engineering tasks. The Virginia Public Procurement Act allows changes to fixed price contracts during the term of the contract, with the caveat that any change over 25% of the contract, which I think this would be, has to be approved by the governing body, which in this case would be the R-Board. You could have a special meeting, or if the Board members informally say they will approve it you could ask Draper Aden if they would be willing to begin work without a contract amendment, knowing it will be approved at the next meeting. You may want to tell the Stafford procurement office that you are doing this, just so they know what is going on and do not have any problems. Let me know if you have other questions. Bill

Sent from my iPad

On Oct 8, 2019, at 1:46 PM, Joe A. Buchanan <JBuchanan@staffordcountyva.gov> wrote:

<image001.jpg>

From: Pamela L. Timmons
Sent: Tuesday, October 8, 2019 2:35 PM
To: Joe A. Buchanan
Subject: Draper Aden Contract and Amendment #3

Attached...

Pamela L. Timmons

Rappahannock Regional Solid Waste Management Board
Stafford County Government
P.O. Box 339
Stafford, VA 22555
(540) 658.5277
ptimmons@staffordcountyva.gov

<image002.png>

FOIA Disclaimer: Pursuant to the Virginia Freedom of Information Act, written correspondence including e-mails to and from County of Stafford officials and employees may be subject to disclosure as a public record.

Follow Us: [@RBoardStaffFred](#)

<image003.png>

SOFIA GILANI

Environmental Science

CONTACT

sofiaagilani@gmail.com 

(571) 313-9921 

61 Glacier Way,
Stafford VA 22554 

EDUCATION

George Mason University
GPA: 3.31

Fairfax, VA

*B.S. Environmental Science:
Concentration Ecological Science
Candidate (Expected graduation
Dec 2019)*

Relevant Courses

Intro to Environmental Policy
Human Dimensions of the Environment
Biological Diversity/Ecosystem
Computing for Scientists
Soil Science
Sustainability in Action
Environmental Microbiology

Extracurricular Activities

Volunteer at Potomac Conservancy
Volunteer at NOVA Climate Change
Coalition
Volunteer at Green Muslims

ADDITIONAL SKILLS

Conversational Spanish
Analyzing Data
Optimizing Task Delegation
Advanced in Microsoft Word, Excel

LICENSES AND CERTIFICATIONS

Waste Management Facility
Operator Class II
OSHA 10

CAREER OBJECTIVE

Adaptable Environmental Science major (3.31 GPA) currently attending George Mason University, with 3.5 years of relevant work experience. I'm looking to apply a proven knowledge of operating policies & procedures, environmental compliance, and project planning skills to successfully fill an Environmental Manager role. I'm frequently praised as hard-working and diligent by my peers. I can be relied upon to assist your company achieve its goals.

PROFESSIONAL EXPERIENCE

ENVIRONMENTAL TECHNICIAN

*Rappahannock Regional Solid Waste Management Board, Stafford VA
July 2018 – Present*

- Assist in permit renewals & maintenance – VPDES, Title V, and Migratory Bird Permit, SWMP.
- Ensure Proper Communication between Landfill consultants, and government agencies
- Field inspections such as monthly landfill inspections and quarterly stormwater sampling
- Preparing reports to supervisors and Board Members
- Maintain R-Board Website
- Lead Landfill tours & assist with outreach events

SHIFT SUPERVISOR

*CVS, Stafford VA
March 2019 – present*

- Work effectively with store management and store crews
- Supervise the store's crews through assigning, directing, and following up of all activities
- Effectively communicate information between staff
- Assist customers with their questions, problems, and complaints

ENVIRONMENTAL TECHNICIAN INTERN

*Rappahannock Regional Solid Waste Management Board, Stafford VA
May 2016 – June 2018*

- Revitalized Backyard Composting classes by solidifying partnerships with local libraries
- Provide worm composting classes for children
- Lead landfill tours for all age levels
- Assist Environmental Manager with compliance based work
- Maintain R-Board Website



Rappahannock Regional Solid Waste Management Board

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RB19-12

PROPOSED

RAPPAHANNOCK REGIONAL SOLID WASTE MANAGEMENT BOARD

RESOLUTION

At a regular meeting of the Rappahannock Regional Solid Waste Management Board (R-Board) held in the Board of Supervisors Chambers, George L. Gordon, Jr., Government Center, Stafford, Virginia, on the 20th day of November, 2019:

MEMBERS:

Cindy C. Shelton, Chairman
Mathew Kelly, Vice Chairman
Timothy J. Baroody
Meg Bohmke
Thomas C. Foley
William C. Withers, Jr.

VOTE:

On motion of , seconded by , which carried by a vote of , the following was adopted:

A RESOLUTION TO AUTHORIZE AN AMENDMENT TO A CONTRACT WITH DRAPER ADEN ASSOCIATES FOR PROFESSIONAL SERVICES

WHEREAS, the Rappahannock Regional Solid Waste Management Board (R-Board) voted by Resolution RB16-05 to authorize a professional services contract with Draper Aden Associates (DAA) to provide environmental monitoring and engineering support for a period of one (1) year commencing on July 1, 2016; and

WHEREAS, the R-Board desires to begin construction of Cell F3 to ensure City and County residents have a means to dispose of solid waste materials in an environmentally responsible manner; and

WHEREAS, additional funding is required to enable Draper Aden to aid in the construction of the Landfill Cell F3, for wetlands permits, bid document preparation, and quality control of the construction of Cell F3, in the amount of \$165,000; and

WHEREAS, DAA has consistently provided professional services with the highest quality; and

WHEREAS, funds are available in the R-Board Reserve Fund, but must be budgeted and appropriated;



Rappahannock Regional Solid Waste Management Board

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NOW, THEREFORE, BE IT RESOLVED by the Rappahannock Solid Waste Management Board on this the 20th day of November, 2019, that the County Administrator, or his designee, is authorized to execute a contract with Draper Aden Associates to provide wetlands permits, bid document preparation, and quality control services in an amount not to exceed One Hundred Sixty-five Thousand Dollars (\$165,000), unless modified by a duly-executed Contract Amendment; and

BE IT FURTHER RESOLVED that the conversion of the part-time Environmental Technician position to a regular full-time position to provide additional support for the increased oversight of the construction of Cell F3 at the Rappahannock Regional Landfill, is authorized effective January 1, 2020.

A Copy, teste:

RAPPAHANNOCK REGIONAL SOLID WASTE
MANAGEMENT BOARD

Joseph A. Buchanan, Director



Rappahannock Regional Solid Waste Management Board

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

To: R-Board Members
From: Joe Buchanan, Director
Date: November 20, 2019
Subject: Authorize a Public Hearing regarding fee schedule changes

Consider increasing the commercial rate by 3%

RB19-13 – Authorize changes to the fee schedule for commercial customers

Operational costs continue to rise each year, including an adjustment for payroll to bring current employees pay in line with today's pay scale. R-Board staff has done an excellent job of controlling costs, but with the increasing costs of payroll, capital equipment, fuel, and new cell development it is necessary to adjust the rates for commercial customers by 3 %. A recent staff review of similar landfills in our market area show that the Regional Landfill is on the lower end of pricing for commercial customers. Staff requests authorization to hold a public hearing to provide businesses and constituents an opportunity to express to the R-Board their thoughts or concerns. If approved, the increase would go in effect on March 1, 2020.

R-Board Waste Shed - Commercial Tipping Fee Analysis

Name	Owner	Who Runs it	Who uses it	Private /Public	Distance from R-Board (mi)	Business Hrs	Business Days	Commercial & Industrial Waste
Rappahannock Regional Solid Waste Management Board	R-Board	R-Board	Stafford/City of Fredericksburg	Public		6A-5P / 8A-12P	Mon-Fri / Sat	\$41/ton
Augusta Regional Landfill	Augusta County Service Authority	Augusta County	August County, Cities of Staunton and Waynesboro	Public	108	8AM - 3:30PM	Mon - Sat	\$45/ton
Battle Creek Landfill	Page County	Page County	Page County	Public	86	8AM - 3PM	Mon - Sat	\$45-\$60/ton
Fauquier County Landfill	Fauquier county	Fauquier county	Fauquier county	Public	38	7A-3P	M-F (transfer station)	\$60/ton
Frederick County Landfill	Frederick County	Frederick County	Frederick County	Public	80	7:30-4 / 7A-1P	M-F / Sat	\$50/ton
Interstate 95 Landfill (excludes Covata) (commercial takes brush/yard)	Fairfax county	Fairfax county	Fairfax County & Can accept out of county with Director Approval	Public	26	7A-6P/ 7A-4P	M-F / Sat	\$68/ton
Loudoun County Solid Waste Management Facility	Loudon County	Loudon County	Loudon County	Public	60	8A-4P	M-SAT	\$62/ton
Louisa County Sanitary Landfill	Louisa County	Louisa County	Louisa County	Public	46	8A-4P	M-SAT	\$52/ton
Orange County Sanitary Landfill	Orange County	Orange county	Orange county		41	8A-4P/8A-3P	MTThF/ Sat	\$52/ton
Prince William County Landfill	Prince William County	PWC	PWC	Public	22	6A-6P	M-Sat	**\$53/ton ** calculated
Rockingham County Landfill	Rockingham County / Harrisonburg, VA	Rockingham County / Harrisonburg, VA	Rockingham County / Harrisonburg, VA	Public	98	7A-4:30p	M-SAT	\$52/ton
Shenandoah County Landfill - Edinburg	Shenandoah County	Shenandoah County	Shenandoah County	Public	101	8-4 / no working face loads after 3:30	M-Sat	\$45/ton
Spotsylvania County Livingston Sanitary Landfill	Spotsylvania	Spotsylvania	Spotsylvania	Public	29	7A-3P	M-Sun	\$19-\$41/ton

**** PWC calculated by: ****
\$70 tax per year per household / 1.3 tons
disposed of per year per househouse = \$53/ton



Rappahannock Regional Solid Waste Management Board

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RB19-13

PROPOSED
RAPPAHANNOCK REGIONAL
SOLID WASTE MANAGEMENT BOARD

RESOLUTION

At a regular meeting of the Rappahannock Regional Solid Waste Management Board (R-Board) held in the Board of Supervisors Chambers, George L. Gordon, Jr., Government Center, Stafford, Virginia, on the 20th day of November, 2019:

MEMBERS:

William C. Withers, Jr., Chairman
Cindy C. Shelton, Vice Chairman
Timothy J. Baroody
Meg Bohmke
Thomas C. Foley
Matthew Kelly

VOTE:

On motion of _____, seconded by _____, which carried by a vote of _____, the following was adopted:

**A RESOLUTION TO AUTHORIZE A PUBLIC HEARING TO CONSIDER CHANGES TO
THE FEE SCHEDULE FOR COMMERCIAL CUSTOMERS**

WHEREAS, the R-Board is committed to establishing fees that fairly compensate the R-Board for the solid waste services provided; and

WHEREAS, this rate of return for services is inadequate to compensate the R-Board sufficiently for the cost of providing these services, and is insufficient to fund operation, maintenance, capital equipment replacement, new cell construction, and closure/post-closure expenses; and

WHEREAS, the Landfill experiences increases each fiscal year to operate; and

WHEREAS, staff recommends a 3% increase in all commercial rates to compensate for increases in operating costs; and

NOW, THEREFORE BE IT RESOLVED, by the Rappahannock Regional Solid Waste Management Board on this the 20th day of November, 2019 that the Landfill Director be and he hereby is authorized to advertise a public hearing to consider commercial rate changes.

A Copy, teste:

RAPPAHANNOCK REGIONAL SOLID WASTE
MANAGEMENT BOARD

Joseph A. Buchanan, Director



Rappahannock Regional Solid Waste Management Board

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

To: R-Board Members

From: Joe Buchanan, Director

Date: November 20, 2019

Subject: Change pricing for clean dirt delivered to the Landfill from Stafford County and the City of Fredericksburg

The R-Board is asked to consider authorizing a rate reduction for the delivery of clean dirt.

RB19-14 – Authorize a rate reduction for clean dirt that is delivered to the Landfill from Stafford County and the City of Fredericksburg

The Landfill currently charges both the County and City \$26 per ton to dispose of dirt. The Landfill currently moves clean dirt to the working face to create slopes, cover material, and have on-hand as a fire-fighting material in case of fire. It is staff's recommendation to allow the City and County to deliver clean dirt as determined by Landfill staff, at no cost.

Category	Current Rate	Proposed Rate
Dirt (County and City)	\$26 per ton	\$0 per ton



Rappahannock Regional Solid Waste Management Board

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RB19-14

PROPOSED

RAPPAHANNOCK REGIONAL SOLID WASTE MANAGEMENT BOARD

RESOLUTION

At a regular meeting of the Rappahannock Regional Solid Waste Management Board (R-Board) held in the Board of Supervisors Chambers, George L. Gordon, Jr., Government Center, Stafford, Virginia, on the 20th day of November, 2019:

MEMBERS:

William C. Withers, Jr., Chairman
Cindy C. Shelton, Vice Chairman
Timothy J. Baroody
Meg Bohmke
Thomas C. Foley
Matthew Kelly

VOTE:

On motion of _____, seconded by _____, which carried by a vote of _____, the following was adopted:

A RESOLUTION TO AUTHORIZE CHANGES TO THE FEE SCHEDULE FOR CLEAN DIRT DELIVERED TO THE LANDFILL

WHEREAS, the R-Board is committed to establishing fees that fairly compensate the R-Board for the services provided; and

WHEREAS, there is currently a charge of \$26 per ton to deliver dirt to the Landfill; and

WHEREAS, the Landfill uses the clean dirt as a beneficial method to create working face slopes, cover material, and as a fire-fighting material; and

WHEREAS, staff recommends the clean dirt to be delivered to the Landfill at no charge, by Stafford County and the City of Fredericksburg;

NOW, THEREFORE BE IT RESOLVED, by the Rappahannock Regional Solid Waste Management Board on this the 20th day of November, 2019 that the clean dirt rate be amended, and allow delivery at no cost for Stafford County and the City of Fredericksburg, effective January 1, 2020; and

A Copy, teste:

RAPPAHANNOCK REGIONAL SOLID WASTE
MANAGEMENT BOARD

Joseph A. Buchanan, Director



Rappahannock Regional Solid Waste Management Board

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

To: R-Board Members

From: Joe Buchanan, Director

Date: November 20, 2019

Subject: Initiate a leaf compost system using the City of Fredericksburg leaf collection system

The R-Board is asked to consider authorizing the reduction of costs for the City to deliver leaves from residential collection, to the Landfill for a reduced fee of \$ 26 per ton, in an effort to compost this material and reduce landfill material.

RB19-15 – Authorize a rate reduction for residential leaf collection from the City of Fredericksburg

Material is currently being delivered into the landfill and disposed of at a cost of \$41 per ton. The material will be stored in a separate area but will need to be prepared for composting and will take approximately 9-12 months to be considered a compost product. Staff will be required to prepare a site and turn the material as needed which results in a \$26 per ton cost. The reduction in materials being landfilled, and the cost savings, will be a positive result for the Regional Landfill and the City. This is a new effort by the Landfill. Staff has met with several compost experts including two field trips to existing compost facilities to help improve our abilities in the management of the Landfill. Our current engineering company Draper Aden has been a key advisor to this project.

Category	Current Rate	Proposed Rate
Leaf Collection (City)	\$41 per ton	\$26 per ton



Rappahannock Regional Solid Waste Management Board

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RB19-15

PROPOSED

RAPPAHANNOCK REGIONAL SOLID WASTE MANAGEMENT BOARD

RESOLUTION

At a regular meeting of the Rappahannock Regional Solid Waste Management Board (R-Board) held in the Board of Supervisors Chambers, George L. Gordon, Jr., Government Center, Stafford, Virginia, on the 20th day of November, 2019:

MEMBERS:

William C. Withers, Jr., Chairman
Cindy C. Shelton, Vice Chairman
Timothy J. Baroody
Meg Bohmke
Thomas C. Foley
Matthew Kelly

VOTE:

On motion of _____, seconded by _____, which carried by a vote of _____, the following was adopted:

A RESOLUTION TO INITIATE A LEAF COMPOSTING SYSTEM AND A CHANGE TO THE FEE SCHEDULE FOR LEAF COLLECTION

WHEREAS, the R-Board is committed to establishing new practices for beneficial uses; and

WHEREAS, leaves that are collected by the City of Fredericksburg are disposed of at the Landfill at a cost of \$41 per ton; and

WHEREAS, the Landfill proposes to assign a site for this material to be stored to create a compostable material; and

WHEREAS, due to the reduction in materials being landfilled, staff recommends a reduced rate of \$26 per ton, which will be a positive result for the Regional Landfill and the City;

NOW, THEREFORE BE IT RESOLVED, by the Rappahannock Regional Solid Waste Management Board on this the 20th day of November, 2019 that the R-Board be and it hereby does reduce the leaf collection rate from \$41 per ton, to \$26 per ton, effective January 1, 2020; and

A Copy, teste:

RAPPAHANNOCK REGIONAL SOLID WASTE
MANAGEMENT BOARD

Joseph A. Buchanan, Director



Rappahannock Regional Solid Waste Management Board

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

To: R-Board Members
From: Joe Buchanan, Regional Landfill Director
Date: November 20, 2019
Subject: R-Board Rules and Regulations Update

Authorize updates in the rules and regulations regarding the oversized load fee

RB19-16 Authorize changes to the verbiage in the rules and regulations regarding the oversized load fee

The R-Board adopted resolution RB19-02 on May 15, 2019, which proposed increases to the user fee of approximately 20%, as well as a new Oversized Load fee of \$20. Prior to adoption of this resolution, trailers over 8-feet in length with construction and demolition material were assessed a \$20 fee, and any trailer size without construction and demolition material was assessed a \$4 fee. RB19-02 proposed that any trailer over 8-feet in length carrying solid waste would be charged \$20.

After initiation of this fee, Landfill staff made exceptions to the rule by allowing residents to transport solid waste in trailers with up to four 100-gallon trash bins for the \$5 fee, under their annual pass, or with their coupon book. Landfill staff recommends this exception be extended to cargo vehicles as well.

Additionally, staff recommends an adjustment to the Oversized Load fee to include all material, including but not limited to construction and demolition, solid waste, yard waste, and mulch.

FS-2 Definitions

For the purpose of this Fee Schedule, the following words and phrases shall have the meaning respectively ascribed to them:

- A. **“Cargo Vehicle”** means open or enclosed cargo space and cargo vans with only driver and front passenger seating. Vehicles must be one ton or less in rated vehicle size. This definition extends to dump trucks, box trucks, moving vans, and enclosed trailers. Any vehicle over 1 ton in rated vehicle size will be considered Commercial.
- B. **“Commercial Waste”** means all solid waste generated by establishments engaged in business operations other than manufacturing or construction. This category includes, but is not limited to, solid waste resulting from the operation of stores, markets, office buildings, restaurants and shopping centers.



Rappahannock Regional Solid Waste Management Board

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- C. **“Construction and Demolition Waste” (C&D)** means solid waste that is produced or generated during construction, remodeling, or repair of pavements, houses, commercial buildings, and other structures as well as solid waste produced by the destruction of structures and their foundations and includes the same materials as construction wastes.
- D. **“Mixed Load”** means a load which contains more than one classification of refuse which requires separation in accordance with Section RR-20 of the Rules and Regulations (separation of Refuse) adopted by the R-Board. It shall be further defined as follows:
1. One or more appliances.
 2. One or more whole tires.
 3. One or more batteries.
 4. Ten percent (10%) or more by volume of other refuse which is required to be separated such as, but not limited to, discarded building materials, salvaged metal, brush, burnable materials, etc. as determined by the landfill Superintendent, whose decision shall be final.
- E. **“Municipal Solid Waste” (MSW)** means waste that is normally composed of residential, commercial, and institutional solid waste and residues derived from the combustion of these wastes.
- F. **“Passenger Vehicle”** means a vehicle where the cargo and passenger spaces are enclosed in the same area, including crossover vehicles, hatchbacks, minivans, station wagons, and SUV’s. This definition is also extended to pickup trucks. Vehicles must be one ton or less in rated vehicle size.

“Resident” means a resident of the County of Stafford or the City of Fredericksburg whose primary residence is within these two jurisdictions, disposing of their own domestic refuse. Residency may be established by the following: driver’s license, utility bill or paid tax receipt to show proof of residency.

- G. **“Residential Oversize Load”** means any material ~~waste~~ transported by a cargo vehicle or trailer more than eight feet in length. *Note: Cargo Vehicles or Trailers over 8 feet in length can be used to bring up to 4 covered containers ~~trash-bins~~ of 100 gallons or less (each) and not be charged the Residential Oversized Load Fee. All material MUST be contained and covered within the containers.*
- H. **Residential Waste”** means any waste material, including garbage, trash and refuse, deriving from residents. Residential wastes do not include sanitary waste in septic tanks (septage) that is regulated by other state agencies.
- I. **“Trailer”** means equipment used to tow cargo behind another vehicle.
- J. **“White Goods”** means any stoves, washers, hot water heaters or other large appliance. This also includes, but is not limited to, such Freon-containing appliances such as refrigerators, freezers, air conditioners, and dehumidifiers.



Rappahannock Regional Solid Waste Management Board

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- K. **“Whole Tires”** means tires which have not been either cut into halves by slicing them around the largest circumference along the center of the tread or which have not been shredded.
- L. **“Yard Waste”** vegetative waste meaning decomposable waste materials generated by yard and lawn care or land-clearing activities and includes, but is not limited to, leaves, grass trimmings, woody wastes such as shrub and tree prunings, bark, limbs, roots, and stumps. Accepted yard waste at Eskimo Hill Yard waste includes waste up to 12” in diameter and a maximum length of 8’. At Belman Road Convenience Center, only grass, leaves, brush and limbs up to 4” in diameter and a maximum length of 8’. No plastic bags in yard waste.



Rappahannock Regional Solid Waste Management Board

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RB19-16

PROPOSED
RAPPAHANNOCK REGIONAL
SOLID WASTE MANAGEMENT BOARD

RESOLUTION

At a regular meeting of the Rappahannock Regional Solid Waste Management Board (R-Board) held in the Board of Supervisors Chambers, George L. Gordon, Jr., Government Center, Stafford, Virginia, on the 20th day of November, 2019:

MEMBERS:

William C. Withers, Jr., Chairman
Cindy C. Shelton, Vice Chairman
Timothy J. Baroody
Meg Bohmke
Thomas C. Foley
Matthew Kelly

VOTE:

On motion of _____, seconded by _____, which carried by a vote of _____, the following was adopted:

A RESOLUTION TO AUTHORIZE CHANGES TO VERBIAGE IN THE RULES AND REGULATIONS REGARDING OVERSIZED LOAD FEE

WHEREAS, on May 15, 2019, the R-Board adopted resolution RB19-02, which established an oversized load fee; and

WHEREAS, this fee allowed trailers over 8-feet in length carrying solid waste to be charged a fee of \$20 and a charge of \$5 for yard debris; and

WHEREAS, staff allowed exceptions to the rule by allowing residents to transport solid waste in trailers with up to four 100-gallon trash bins for a \$5 fee; and

WHEREAS, staff desires to extend this exception to cargo vehicles as well; and

WHEREAS, staff desires a change in verbiage to the term, "solid waste;" and

WHEREAS, staff recommends allowing the exception to cargo vehicles, and the rules and regulations verbiage to read, "any material, including, but not limited to, construction, demolition, solid waste, yard waste, and mulch;"

NOW, THEREFORE BE IT RESOLVED, by the Rappahannock Regional Solid Waste Management Board on this the 20th day of November, 2019 that the rules and regulation regarding oversized load fee be amended.

A Copy, teste:

RAPPAHANNOCK REGIONAL SOLID WASTE
MANAGEMENT BOARD

Joseph A. Buchanan, Director



Rappahannock Regional Solid Waste Management Board

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

To: R-Board Members
From: Joe Buchanan, Director
Date: November 20, 2019
Subject: Change commercial gate closure time, effective January 1, 2020

Change of Commercial Gate closure from 5:00 pm to 4:30 pm. effective January 1, 2020.

RB19-17 – Consider changes to the commercial gate hours

The landfill closing hours are currently different, with the residential side closing at 4:30 pm and the commercial side closing at 5:00 pm. Staff recently conducted a time study showing that between the hours of 4:30 pm – 5:00 pm less than 2% of our commercial activity takes place. The open commercial gate creates a safety issue, as residential customers trying to enter the commercial gate. Staff recommends both gates closing at the same time. A recent staff review of time study survey is below:

Commercial Vehicles after 4:30

An analysis of Commercial Customer tickets produced between June 2, 2019 and October 5, 2019 concluded that the average number of weekly customers was 951. The average number of commercial vehicles after 4:30PM was 13. Shown on the next page is the table of data depicting the weekly number of vehicles.



Rappahannock Regional Solid Waste Management Board

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Week of:	Total Weekly Vehicles	Weekly Vehicles After 4:30	
Jun2-Jun8	956	12	
June10-June15	886	14	
June17-June22	956	13	
June24-June30	960	18	
July 1 - July 6	764	15	
July 8-July13	960	11	
July 15-July 20	950	15	
July 22-July 27	958	9	
July 29-Aug3	984	11	
Aug5-Aug11	979	8	
Aug12-Aug17	985	19	
Aug19-Aug24	885	16	
Aug26-Aug31	1057	16	
Sept1-Sept7	798	19	
Sept9-Sept14	1023	13	
Sept16-Sept21	1004	15	
Sept23-Sept28	1022	8	
Sept30-Oct5	1007	7	
Total	17,134.00	239	% after 4:30
Average	951.888889	13.2777778	1.395%



Rappahannock Regional Solid Waste Management Board

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RB19-17

PROPOSED

RAPPAHANNOCK REGIONAL SOLID WASTE MANAGEMENT BOARD

RESOLUTION

At a regular meeting of the Rappahannock Regional Solid Waste Management Board (R-Board) held in the Board of Supervisors Chambers, George L. Gordon, Jr., Government Center, Stafford, Virginia, on the 20th day of November, 2019:

MEMBERS:

William C. Withers, Jr., Chairman
Cindy C. Shelton, Vice Chairman
Timothy J. Baroody
Meg Bohmke
Thomas C. Foley
Matthew Kelly

VOTE:

On motion of _____, seconded by _____, which carried by a vote of _____, the following was adopted:

A RESOLUTION TO CONSIDER CHANGES TO THE COMMERCIAL GATE HOURS

WHEREAS, the landfill closing hours are currently different, with the residential side closing at 4:30 pm and the commercial side closing at 5:00 pm; and

WHEREAS, staff recently conducted a time study showing that between the hours of 4:30 pm – 5:00 pm, less than 2% of our commercial activity takes place; and

WHEREAS, the open commercial gate creates a safety issue, as residential customers trying to enter the commercial gate; and

WHEREAS, staff recommends an adjustment to the commercial gate hours, closing at 4:30, from 5:00;

NOW, THEREFORE BE IT RESOLVED, by the Rappahannock Regional Solid Waste Management Board on this the 20th day of November, 2019 that the R-Board Director be and he hereby is authorized to adjust the commercial gate operating hours to 8:00 a.m. - 4:30 p.m., effective January 1, 2020.

A Copy, teste:

RAPPAHANNOCK REGIONAL SOLID WASTE
MANAGEMENT BOARD

Joseph A. Buchanan, Director