



PRINCE WILLIAM
COUNTY

Prince William County Solid Waste Management Plan Update

Department of Public Works

February 2022



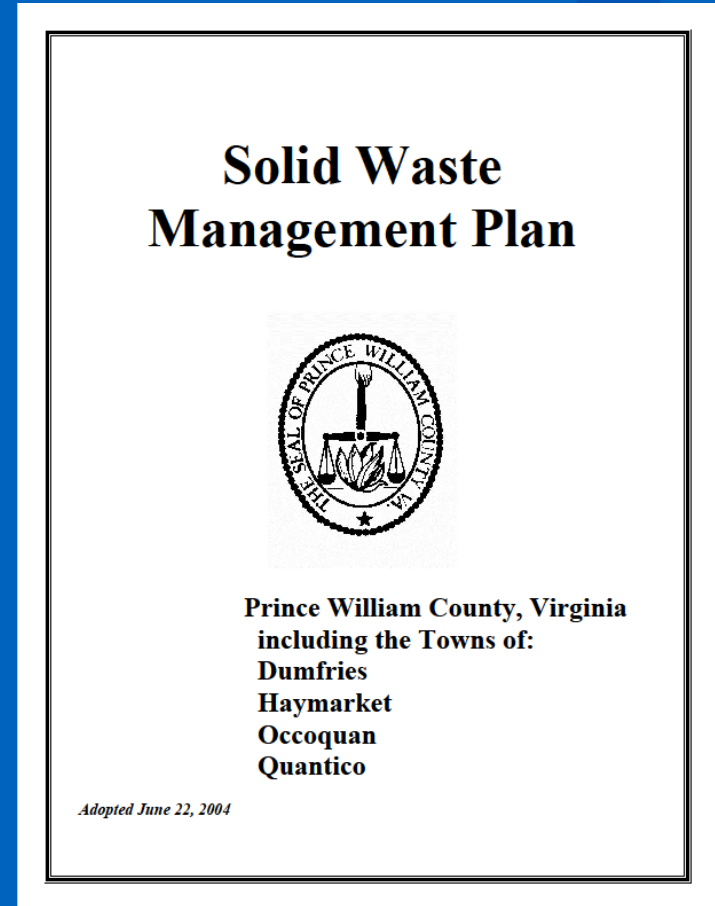
Overview of Project



- About the Solid Waste Management Plan
- 2004 Plan Goals
- Why Update the Plan?
- Waste Management Hierarchy
- Overview of waste management in PWC
- Funding
- Waste & projections
- 2020 plan issues
- Project schedule
- Public participation

What is the Solid Waste Management Plan?

- Every city, county and town in the Commonwealth (or approved region) is required to develop and maintain a solid waste management plan
- The current Solid Waste Management Plan, adopted in 2004, includes the County and the incorporated towns of Dumfries, Haymarket, Occoquan and Quantico
- The plan describes the County's strategies for protecting the public health and safety, environment, and natural resources and establishes goals for County's solid waste management efforts



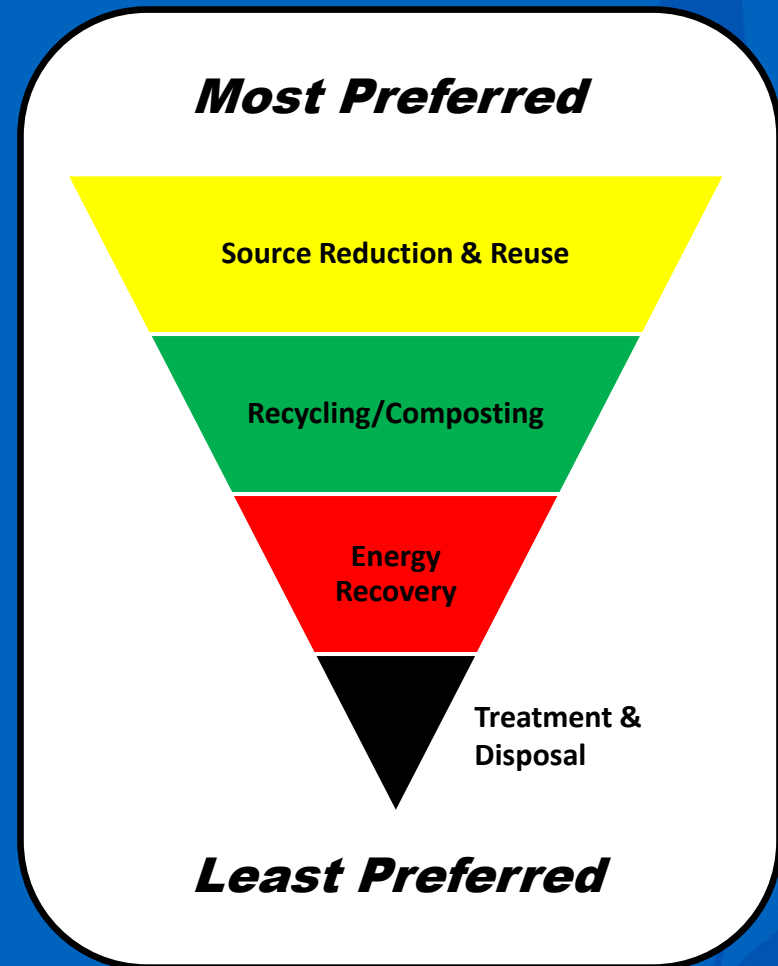
Why Update the Solid Waste Management Plan?



- The current plan needs to be updated to reflect the current situation and direction of the County's solid waste management program
- The Board of County Supervisors approved funding for a consultant-led update of the existing 2004 Solid Waste Management Plan
- The new plan will lay out the County's vision for its solid waste management in the county for approximately the next 20 years (2020 – 2040)

What is the Waste Management Hierarchy?

- The waste management hierarchy is a strategy for managing municipal solid waste
- The Waste Management Hierarchy was developed by the U.S. Environmental Protection Agency, which recognized that no single waste management approach is suitable for managing all materials
- The Waste Management Hierarchy emphasizes source reduction, reuse, recycling and composting as the keys to sustainable materials management



Overview of Waste Management in Prince William County

- The County's solid waste management system includes collection, disposal/recycling, education and enforcement.
- Trash, recycling and yard wastes collection services are provided by about 15 private haulers in a free market system. In addition, there are about 75 private companies collecting a wide variety of materials for recycling or disposal (e.g., paper, scrap metal, batteries, motor oil, anti-freeze, tires, cooking oil, electronics, etc.).
- About 65% of the County's waste is disposed at the 1,000-acre Prince William County Landfill, which is expected to reach capacity around 2065. About 29% of waste is recycled and the remaining 6% is disposed at Covanta Fairfax waste-to-energy facility in Lorton under an agreement with Fairfax County.
- Education is provided by the County and private haulers.
- The County and State are responsible for solid waste enforcement.



Overview of Waste Management in Prince William County



Prince William County Landfill

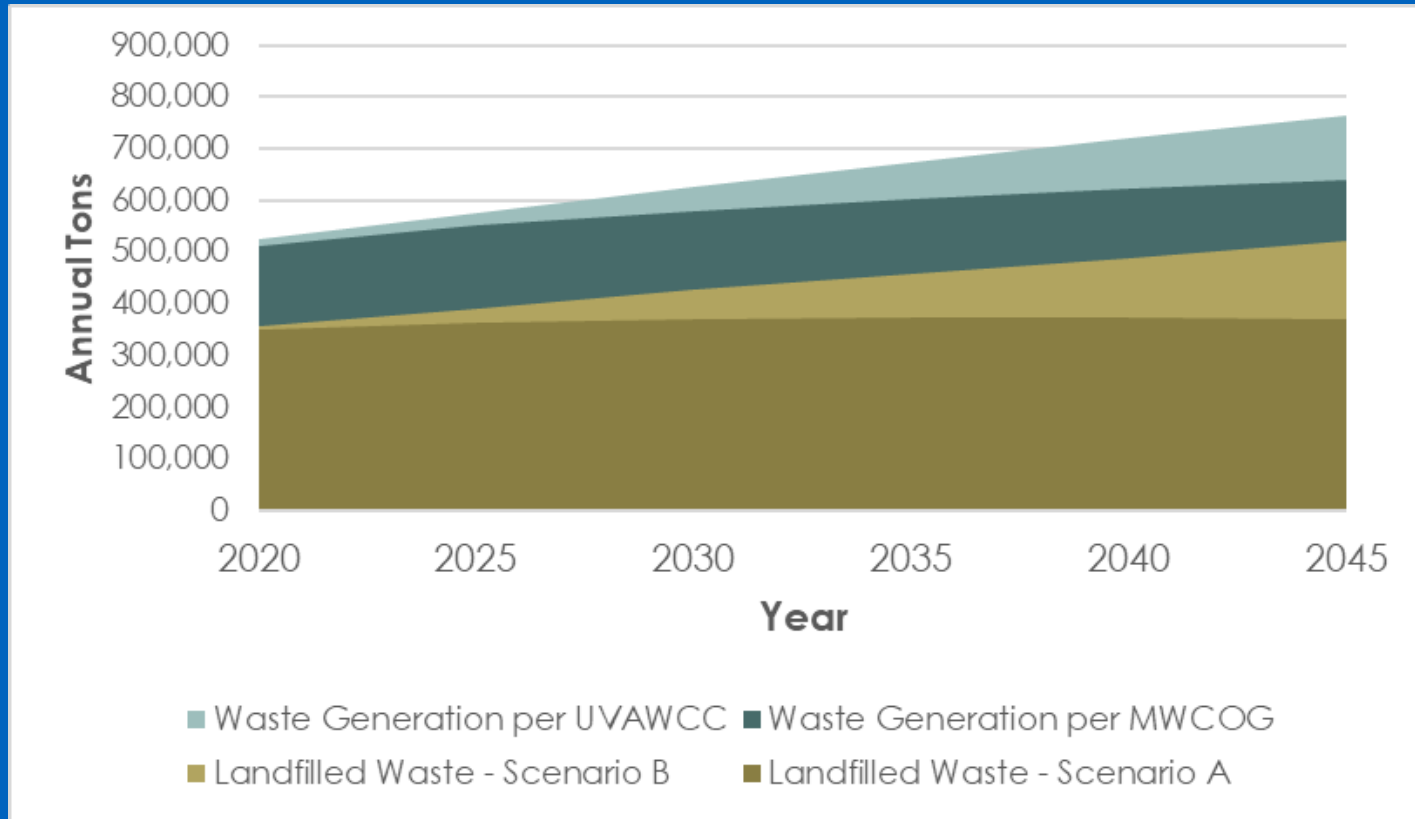


Balls Ford Road Compost Facility

Solid Waste Management System Funding

- In 1999, the Board implemented a County-wide solid waste user fee to replace gate (tipping) fees
- Primary source of funding comes from the Solid Waste user fee which is a flat fee charged to residential units based upon unit type while non-residential properties are charged based upon the amount of waste generated
- Other revenue sources include the sale of recyclable materials, tipping fees from town and city waste, sale of landfill gas and interest income
- The Solid Waste User Fee has not been increased since its introduction in 1999
 - *A recent County forecast indicate that the Solid Waste Enterprise Fund is projected to have a negative cash balance beginning in FY 2024 and will continue to grow with each ensuing year without any action*
 - *A recent audit by RSM recommends that Solid Waste work with Finance, Management and Budget and the Board of County Supervisors on phased adjustments to the Solid Waste User Fee to ensure that the program has sufficient funding to meet the landfill's long-term operational needs and to support future initiatives*

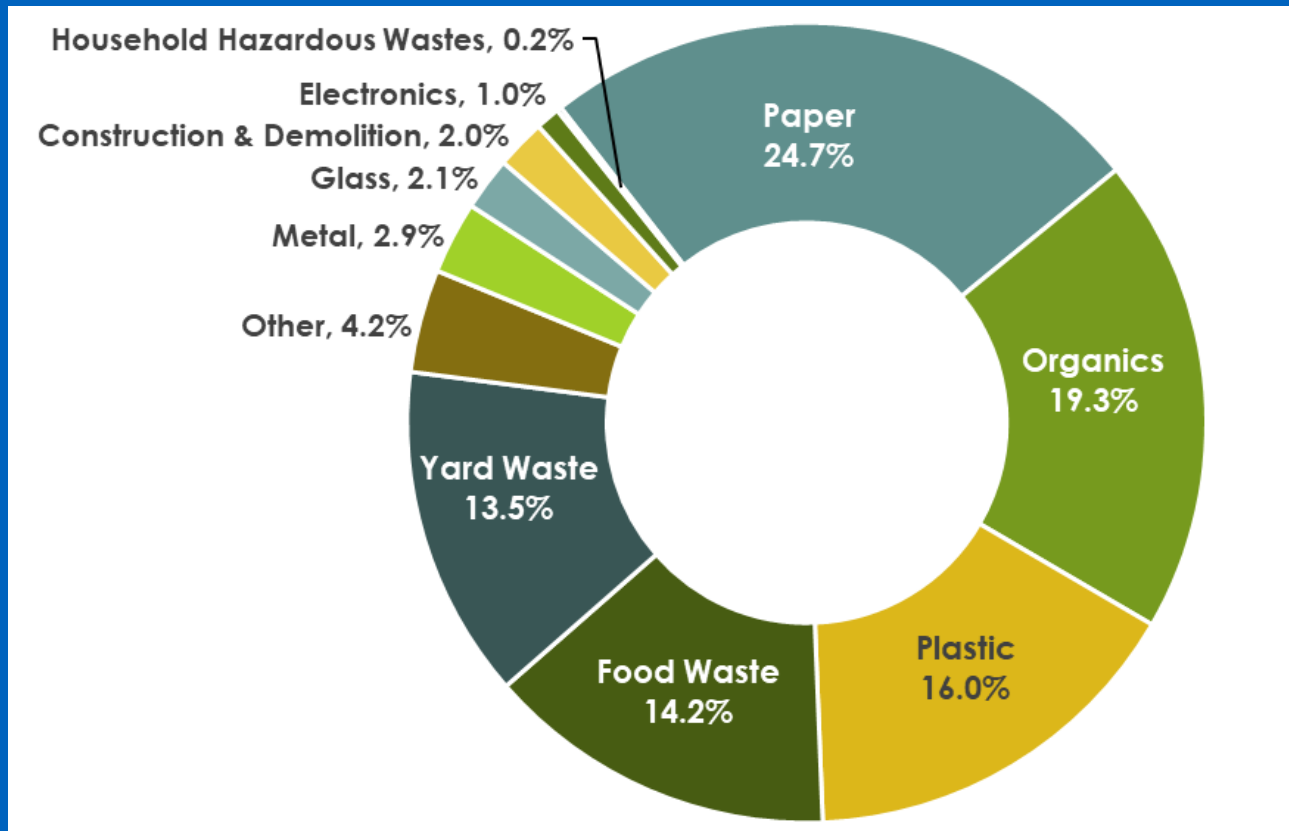
What are the Waste Projections?



UVAWCC: University of VA Weldon Cooper Center

MWCOG: Metropolitan Washington Council of Governments

What Materials are in the County's Trash?

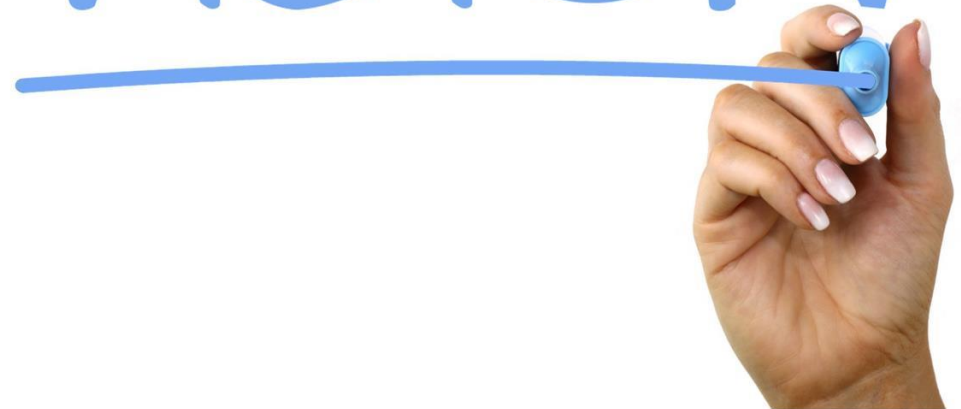


* Based on 2013-2014 study by SCS Engineers. "Other" includes diapers, wood, textiles, rubber, leather, household batteries, fines, and other unclassified material.

What Issues Were Considered?

1. Solid Waste District Membership
2. Funding of waste management infrastructure
3. Service plans
4. Oversight of private refuse/food waste collection
5. Management of organic materials (e.g. , yard, food waste, etc.)
6. Debris from construction and demolition activities
7. New technologies to process waste
8. Development of landfill site
9. Use of landfill site as a resource for the community

VISION

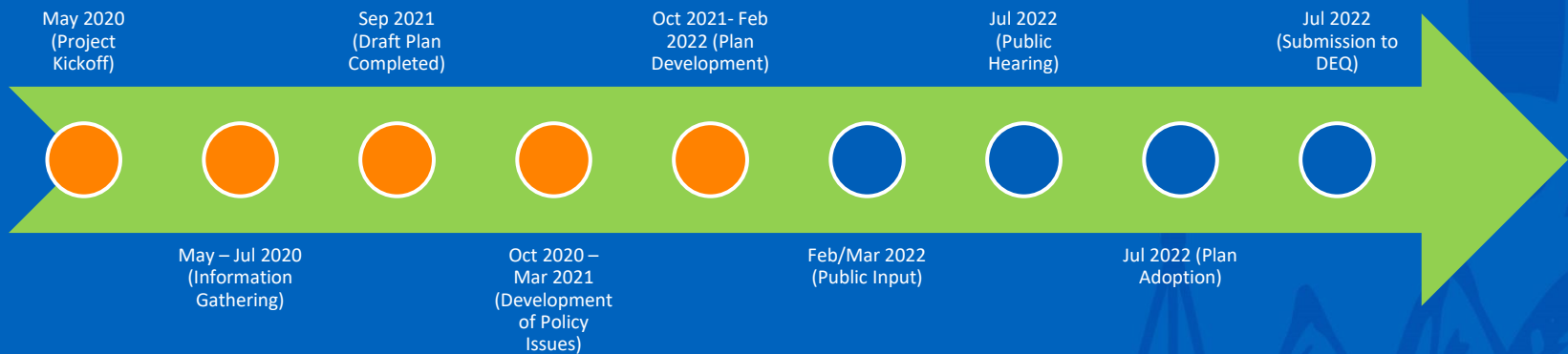


Public Participation

- Solid Waste Management Plan is being developed in coordination and input from the County's Solid Waste Advisory Group
- In addition, input will also be solicited from HOA's, incorporated towns, private refuse haulers, and the Chambers of Commerce
- Information regarding the draft plan will be posted on our website
- General public information meeting on the draft plan
- Public hearing prior to Board adoption of the plan



Plan Development Process/Schedule



 Task completed

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