STORMWATER BASICS IN PRINCE GEORGE'S COUNTY

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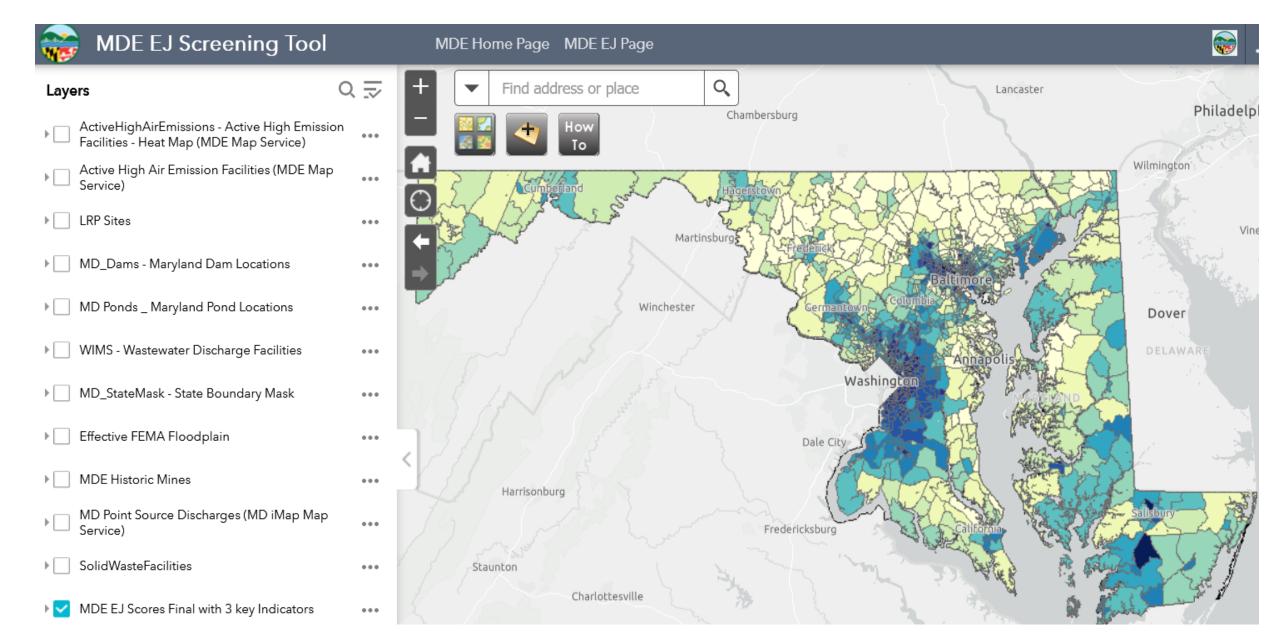


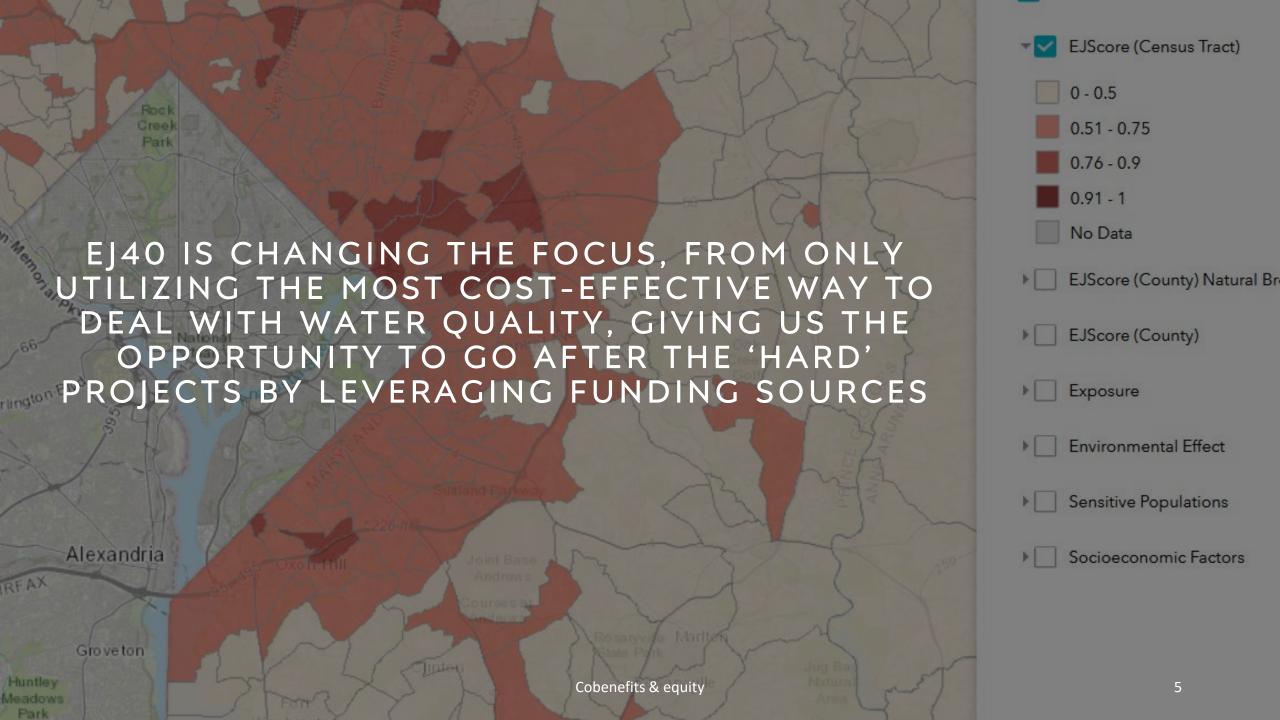
INVIRONMENTAL JUSTICE- THE THREAD THAT TIES ALL OF DOE'S PROGRAMS TOGETHER

EPA DEFINITION OF ENVIRONMENTAL JUSTICE

Environmental justice is the fair treatment and meaningful involvement of all people regardless of race, color, national origin, or income, with respect to the development, implementation, and enforcement of environmental laws, regulations, and policies. This goal will be achieved when everyone enjoys:

- The same degree of protection from environmental and health hazards, and
- Equal access to the decision-making process to have a healthy environment in which to live, learn, and work.





"we are part of an economic engine, directing perhaps millions of dollars of investment into contracts, consulting, and procurements. These dollars have the power to uplift local, diverse communities."

- EQUITY GUIDE for Green Stormwater Infrastructure Practitioners

MORE THAN ANYTHING ELSE-**EQUITY MEANS A** SEAT AT THE TABLE -INCLUDING SUPPORT TO OVERCOME THE BARRIERS BETWEEN YOU AND THAT SEAT

PHOTO: CLEAN WATER PARTNERSHIP



WHAT IS STORMWATER-THE BASICS

STORMWATER MANAGEMENT ENTERPRISE FUND

As authorized by Sections 10-262 through 10-264 of the County Code, the Stormwater Management District includes all the land within the boundaries of Prince George's County, Maryland, except for land within the City of Bowie.

For- the planning, designing, acquisition, construction, demolition, maintenance and operation of facilities, practices and programs for the control and disposition of storm and surface waters, including floodproofing and flood control and navigation. These actions ensure the availability to residents and property owners of the Stormwater Management District an efficient and safe operating service. The Stormwater Management Enterprise Fund funds stormwater management activities within the district and responsibility for administering these activities is shared between the Department of the Environment and the Department of Public Works and Transportation.

Sec. 10-263. - Stormwater Management Tax.









- (a) Pursuant to Article 29, Section 3-205 of the Annotated Code of Maryland, there is hereby imposed a direct ad valorem tax on all property assessed for tax purposes within the Storm Management District, except as otherwise provided in this Section, at a rate required to produce the amount needed to pay for stormwater management operations and activities within the District and to pay for the principal, interest and other obligations which shall become due and owing during the ensuing year to the holders of bonds issued by the Washington Suburban Sanitary Commission and by the County for stormwater management.
- (b) Taxes imposed under this Section shall be levied and collected in the same manner, have the same priority, bear the same interest and penalties, and be treated in all respects as other County property taxes, except as provided by State law.
- (c) The following property shall be exempt from the imposition of the Stormwater Management Tax:
 - (1) Property owned by the State or an agency of the State, the County, a municipality, or a regularly organized volunteer fire department; and
 - (2) Property which is not yet provided direct or indirect stormwater management services, but only until such time as the County acquires, extends, or commences stormwater management services, facilities, or programs to the property.

(CB-62-1987)

LOCAL WATERSHED PROTECTION & RESTORATION FUND

- Effective July 1, 2013, the County established a Watershed Protection and Restoration (WPR) Program, in accordance with the provisions of House Bill (HB) 987. County legislation adopted by the County Council established the authority and agency responsibilities needed to administer the WPR program.
- The Local Watershed Protection and Restoration Fund, also known as the Water Quality Fund, supports the requirements to meet federal mandates for impervious area restoration through retrofit, storm water controls and mandated rebate programs intended to improve water quality in the Chesapeake Bay.

WATER QUALITY

Ensuring that water meets certain standards as it moves across surfaces and into the streams, rivers and eventually Chesapeake Bay, generally by slowing it down and allowing it to permeate into the soil to the extent possible

Lead Agency- DoE

Supporting Agencies – DPIE, DPWT, SCD

Regulated by Clean Water Act as implemented through Maryland Department of Environment's NPDES/MS4 permit

Funded with Stormwater Fund and Clean Water Fund, as well as grants and State Revolving Fund (loans)

NPDES/MS4/TMDL/SWPPP

- National Pollutant Discharge Elimination System (NPDES) is a program established by the Federal Clean Water Act and implemented by MDE
- Municipal Separate Storm Sewer System. A separate storm sewer system is any conveyance that transports storm runoff directly to a receiving stream.
- TMDL stands for "**Total Maximum Daily Load**". A TMDL is a calculation of the maximum amount of a pollutant that a waterbody can accept and still meet the state's Water Quality Standards for public health and healthy ecosystems.
- SWPPP is an acronym for **Stormwater Pollution Prevention Plan**

WATER QUALITY REQUIREMENTS

- The County is in a NPDES/MS4 Consent Decree to make up for past failures to manage water quality- the period of the C/D ends in calendar year 2024
- The County has been issued a NEW permit that began December 2, 2022; the permit is issued for a period of 5 years and will run through December 1, 2027
- For FY23-FY25 we will have to continue to meet the requirements of the C/D and begin work on the new permit.
- We will submit a Financial Assurance Plan to Council for approval after December 31, 2022- which will detail the anticipated costs of compliance with the remaining requirements of the consent decree. As part of the budget process, we will also discuss the costs of the new permit.

WATER QUANTITY (FLOODING)

Reducing the risks to persons, places and things from water flowing rapidly from one place to another, rising from rivers and streams, and pooling in certain locations.

Reducing flooding is often a co-benefit of water quality projects, but is not the primary goal of them.

Supporting Agencies- DOE, DPWT, DPIE, SCD, OEM Funded with Stormwater Fund dollars, as well as FEMA and ARPA grant dollars.

In DOE, this work is partially in SMD and partially in SD.

FY23 STORMWATER BUDGET

Agency- Fund	FY2023 Operating
DoE- SW	75.8M (29.5M debt)
DoE- CW	20.6M (2.2M debt)
DPWT -SW	21.4M
DPIE	-
SCD	-
TOTAL	117.2M

Category/ Description	Total Project Cost	Life to Date FY 2022 Actual Estimate		Total 6 Years	Budget Year FY 2023	
EXPENDITUR	E					
PLANS	\$142,164	\$75,725	\$18,320	\$48,119	\$13,261	
LAND	4,936	181	405	4,350	325	
CONSTR	840,973	281,214	126,167	433,592	133,967	
EQUIP	_	_	_	_	_	
OTHER	97,084	76,903	3,218	16,963	2,200	
TOTAL	\$1,085,157	\$434,023	\$148,110	\$503,024	\$149,753	
FUNDING						
FEDERAL	\$57,671	\$3,421	\$7,746	\$46,504	\$27,251	
STATE	19,474	4,363	11,900	3,211	3,211	
SW BONDS	704,034	313,634	54,834	335,566	61,444	
OTHER	303,978	57,538	133,179	113,261	54,209	
TOTAL	\$1,085,157	\$378,956	\$207,659	\$498,542	\$146,115	

ODEDATING IMPACT







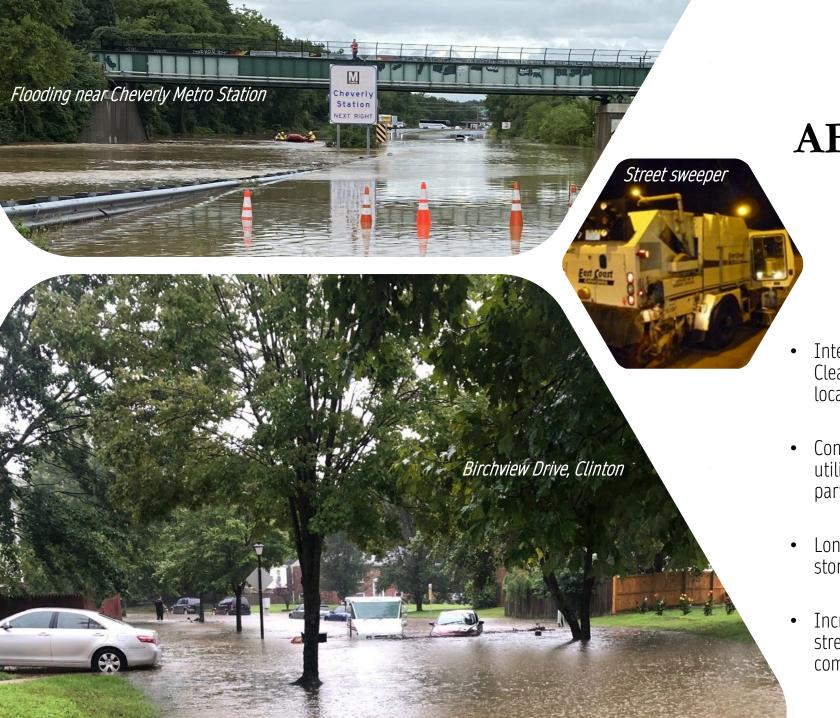
ACHIEVING ENVIRONMENTAL COMPLIANCE HAND IN HAND WITH THE COMMUNITY

ENVIRONMENTAL IMPACT (as of 2022):

- 170 water quality and pollution reduction projects completed to date across nine County Council districts
- 4,500 impervious acres treated for EPA Clean Water Act, County NPDES MS4 Permit mandates, and Chesapeake Bay TMDL permit compliance
- 435 Trees planted and over 14,000 plantings

SOCIAL IMPACT (as of 2022):

- 79% Target Class Participation MBE, CBBE,
 CBMBE, CBSBE, CLBE, LBSB
- 63% Resident Workforce Utilization
- 45 Mentor-Protege Businesses Incubated
- 100+ paid internships for County youth
- \$1.67M invested in County youth environmental literacy programs.



EXPLORING
SOLUTIONS
ABOVE & BEYOND
REGULATION
FOR GREATER
RESILIENCY

Integrated production opportunities to meet County Clean Water regulatory NPDES permit requirements and local flood reduction.

• Continued LSMBE business inclusion; resident workforce utilization; community outreach and investment participation throughout the county.

• Long term retrofit and maintenance of existing County storm drain and storm water infrastructure.

 Increase synergies to include alternative crediting (e.g., street sweeping) and flood reduction for maximum community and environmental benefit.

DIGGING IN ON DRAINAGE

"Too much surface stormwater in my yard and a lack of sufficient storm drain inlets"

"Major stream or swale is causing erosion"

"Clogged storm drains in streets or yards, overflowing onto my property" "Surface water floods into my parking lot, street, structure, or basement" "Major stream
flooding into my
yard, my structure
or basement"
"Neighbor's shed

"Surface water is ponding in my yard"

"Groundwater and perched water tables draining into my yard areas"

EORGA

"Neighbor's sump pump discharging into my yard"

or fence is blocking

flow of swale"

Common Drainage Complaints

Terminology for Discussion



Flooding (Riverine)

when the river or stream overtops banks and floods your property, house, building or roads.

Surface Drainage

- swales with too much storm flow that inundate your yard or house
- swales blocked causing storm flows to back up or pond on your property
- storm drain pipes and inlets clogged, etc.

Groundwater Drainage

- intrusion of groundwater into your basement
- sump pumps not delivering basement water away from your house

Urban Flooding

the inundation of property in a built environment, particularly in more densely populated areas, caused by rain falling on increased amounts of impervious surfaces and overwhelming the capacity of drainage systems



Why are we talking flooding?



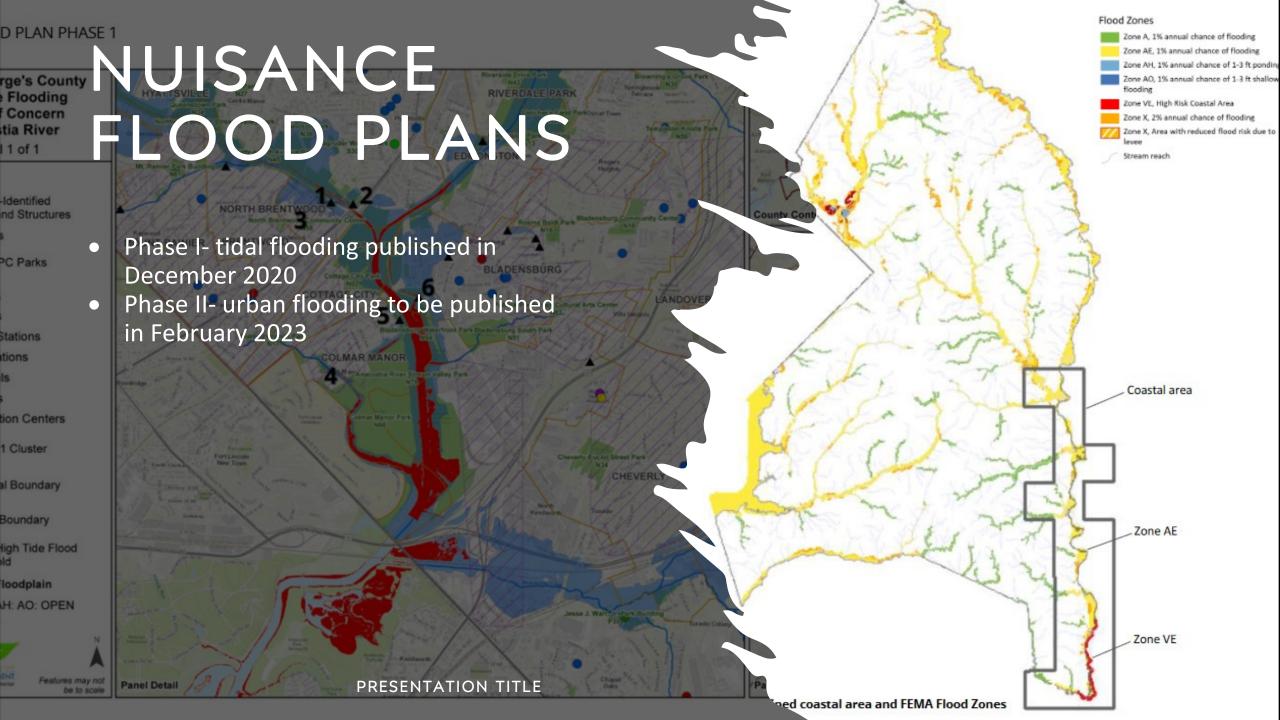
	PDS-based precipitation frequency estimates with 90% confidence intervals (in inches) ¹									
Duration					Average recurren	ce interval (years)				
Duration	1	2	5	10	25	50	100	200	500	1000
5-min	0.358 (0.325-0.394)	0.430 (0.390-0.473)	0.511 (0.463-0.563)	0.570 (0.515-0.628)	0.646 (0.580-0.712)	0.702 (0.627-0.775)	0.758 (0.672-0.838)	0.812 (0.716-0.902)	0.882 (0.768-0.985)	0.937 (0.809-1.05)
10-min	0.572 (0.519-0.629)	0.688 (0.624-0.756)	0.818 (0.741-0.901)	0.912 (0.824-1.00)	1.03 (0.924-1.14)	1.12 (0.998-1.23)	1.21 (1.07-1.33)	1.29 (1.13-1.43)	1.40 (1.22-1.56)	1.48 (1.27-1.66)
15-min	0.715 (0.649-0.787)	0.864 (0.784-0.950)	1.03 (0.938-1.14)	1.15 (1.04-1.27)	1.31 (1.17-1.44)	1.42 (1.26-1.56)	1.52 (1.35-1.68)	1.63 (1.43-1.80)	1.76 (1.53-1.96)	1.85 (1.60-2.08)
30-min	0.981 (0.889-1.08)	1.19 (1.08-1.31)	1.47 (1.33-1.62)	1.67 (1.51-1.84)	1.93 (1.73-2.13)	2.13 (1.90-2.35)	2.33 (2.07-2.58)	2.53 (2.23-2.81)	2.79 (2.43-3.12)	3.00 (2.59-3.37)
60-min	1.22 (1.11-1.35)	1.50 (1.36-1.65)	1.89 (1.71-2.08)	2.18 (1.97-2.40)	2.57 (2.31-2.84)	2.89 (2.58-3.19)	3.21 (2.85-3.55)	3.55 (3.13-3.94)	4.01 (3.49-4.48)	4.38 (3.78-4.92)
2-hr	1.42 (1.29-1.57)	1.73 (1.57-1.91)	2.19 (1.99-2.42)	2.55 (2.30-2.81)	3.06 (2.74-3.37)	3.47 (3.09-3.83)	3.91 (3.46-4.31)	4.36 (3.83-4.83)	5.01 (4.34-5.58)	5.53 (4.75-6.21)
3-hr	1.52 (1.38-1.69)	1.85 (1.68-2.06)	2.35 (2.12-2.60)	2.75 (2.47-3.04)	3.31 (2-3-3.66)	3.78 (3.35-4.18)	4.27 (3.75-4.73)	4.80 (4.18-5.33)	5.55 (4.77 . 6.19)	6.17 (5.23-6.93)
6-hr	1.86 (1.69-2.07)	2.26 (2.05-2.51)	2.85 (2.58-3.17)	3.34 (2.001 8.70)	4.06 (3.62-4.50)	4.69 (4.16-5.19)	5.34 (4.67-5,33)	6.06 (5.24-6.76)	7. 12 (6.06-8.00)	8.01 (6.71-9.05)
12-hr	2.25 (2.02-2.52)	2.71 (2.44-3.05)	3.45 (2.09-3.27)	4.08 (3.64-4.57)	5.04 (4.44 5.63)	5.87 (5.13–6.57)	6.30 (5.8 <mark>7</mark> -7.63)	7.84 (6.67-8/82)	7.84-10.7	10.8 (8.82-12.3)
24-hr	2.60 (2.37-2.90)	3.15 (2.67-3.52)	4.07 (3.69-4.53)	4.87 (4.40-5.41)	6.09 (5.47-6.73)	7.17 (6.39–7.89)	8.40 (7.41-9.20)	(8.78 (8.54-10.7)	1 .9 (10.2-13.0)	13.8 (11.7-15.0)

June 5, 2020: 50-100-year event

July 3, 2022: 100-200-year event

Sept. 10, 2020: 500-1000year event

August 8, 2022: 500-year event

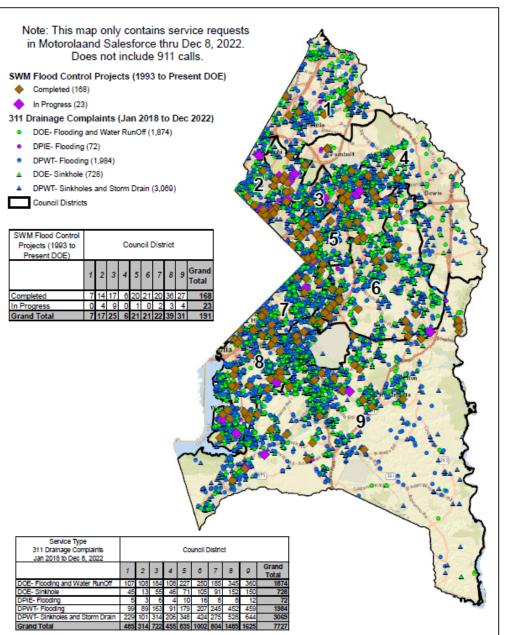






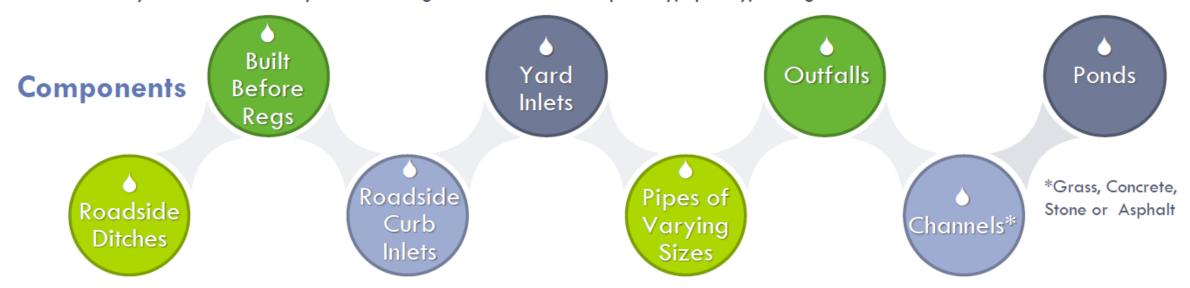
Countywide Drainage Complaints January 2018 thru December 2022





Storm Drain System

It's a network of structures, channels and underground pipes that carry stormwater (rain water) to ponds, lakes, streams and rivers. The network consists of both public and private systems. It's an integral part of the system in the County that is designed to control the quantity, quality, timing and distribution of storm runoff.

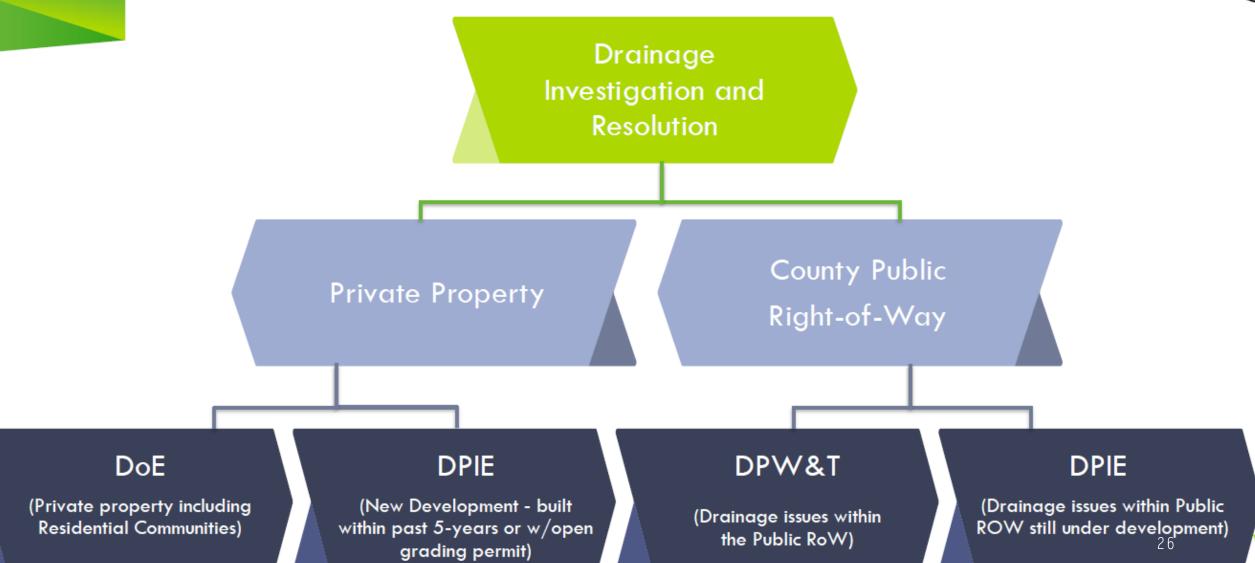


Maintenance of the System

- County maintains the public storm drain system in the public rights of way and those with storm drain easements
- Systems on land owned by others are maintained by the land owner
- Private systems are maintained by the private property owner, including driveway culverts or pipes installed by the property owner outside of the public rights of way

Drainage Relief - Roles of Agencies





ROLES AND RESPONSIBILITIES - CONTINUED

DPWT

County Right of Way

Public Levees – 7 Public Levees

Pumping Stations – 5 Pumping Stations

Maintenance of BMPs and Ponds

DOE

Drainage Complaints- review and routing

Private Property Drainage Complaints

Flood Mapping

Municipal Stormwater

NOT

Private Drainage

Private Roads

State Roads

Municipal Roads

SHARED

Flood Response

Classified Dams- 19 high and 16 significant hazard dams

State ID	Dam Name
8	Greenbelt Dam
13	Cash Lake Dam
20	T. Howard Duckett Dam
64	Cosca Regional Park Dam
81	Contee Main Settling Pond
82	Lake Arbor (Lake Arbor Way)
234	Laurel Lakes No 1 (Lower)
278	Indian Creek Site 2
286	Indian Creek Site 3
298	Prince George Country Club Dam (Pleasant Prospect)
366	Summerfield SWM Pond No. 1 (Chatsfield Way)
369	Madison Hill SWM Pond 1 (Silk Tree Drive)
371	Fedex Field Pond No. 1
390	UMSTC Lower Dam (Curie Drive)
415	Lake Largo Town Center Dam (Kings Way)
419	Heritage Glen Dam
423	Tall Oaks Crossing (Peach Tree Lane)
444	Ritchie Hill SWM Pond

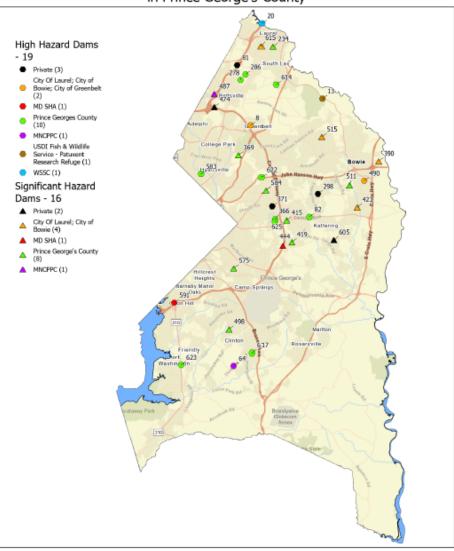
State ID	Dam Name
474	Cherry Hill Park Dam
487	Cherryvale Neighborhood Park Pond
490	Bowie Town Center Lake
498	Tinkers Creek Regional SWM Pond No. 8
511	Collington Facility 9 Dam (Dunwood Crossing Dr)
515	Northridge SWM Pond (Quisinberry Way)
575	Henson Creek Flood Control Dam #17
583	Allison Street Levee (Mt. Ranier)
584	Frost Pond (MLK Jr. Hwy)
591	New Bald Eagle Road SWM
605	Perrywood (Manor House Drive)
614	Ashcroft Drive - Woodbridge Pond
615	Van Dusen Road
617	Summit Creek - Mount Auburn Dr
622	Hanson Oaks SWM (BMP Structure 1558-002)
623	Aragona Village
625	Summerfield SWM Pond No. 2

County Maintained Dam



High Hazard & Significant Hazard Dams in Prince George's County







Infrastructure



18,000 drainage complaints annually



resolve customer service requests (311)

800+

stormwater drainage facilities



1200+ by 2025

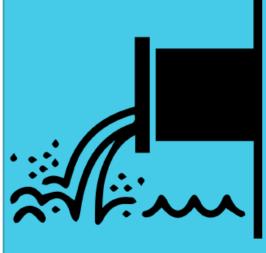
100 - 200

small drainage projects per year



750+

miles of storm drain



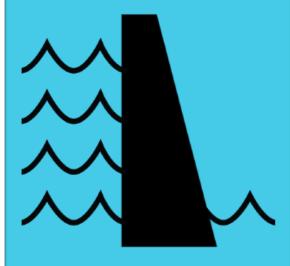


Infrastructure



8 Levees

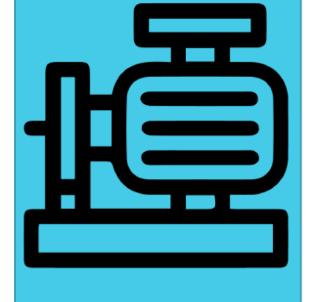
over 7 miles



Average age is

56 years

5 Pumping Stations



67 Permitted Channels



18 additional channels maintained

Jurisdiction

County Right of Way
Public levees
Pumping stations

NOT

Groundwater issues
Private drainage
issues
State roads
Municipal roads

Pumping Stations & Levee Systems





Pumping Stations

Stormwater pump stations help protect areas by pumping away large volumes of water, thereby preventing the occurrence of flooding from nearby large bodies of water.



Levees

Levees are man-made barriers along a water course constructed for the primary purpose of providing flood, storm and hurricane protection.

WATERSHED STUDIES

DoE is undertaking watershed studies of nine major watersheds, with flood mitigation recommendations for each watershed.

Flood Management Plans: The Watershed Studies are designed in a way to identify flood risk, including pluvial flooding as a result of unrestrained development in areas with insufficient infrastructure

Drainage Investigation and Resolution

Service Request

Flooding Complaints

Investigation

Field investigation and record research

Drainage area, flow and conveyance estimates

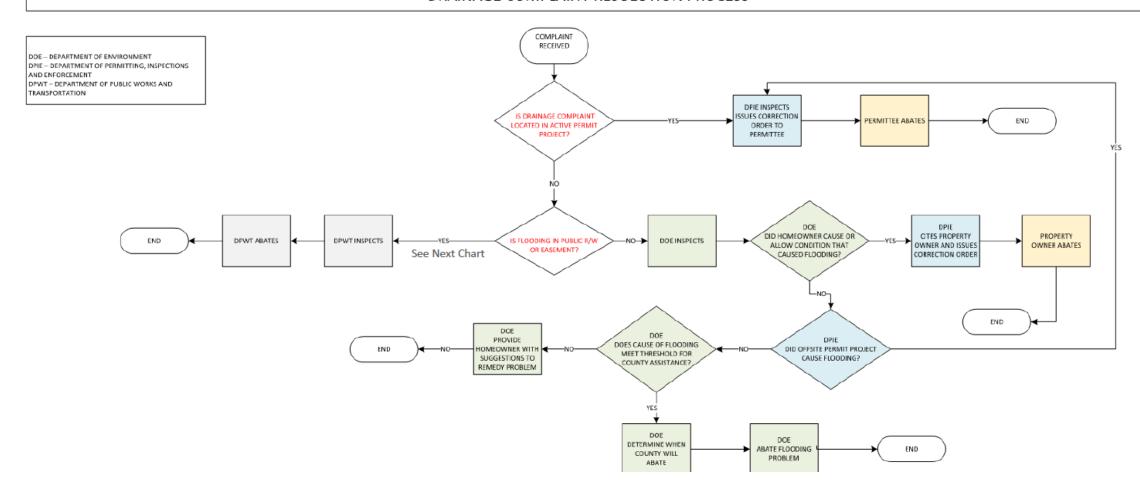
Resolution

Technical advice for homeowner-led improvement

Perform maintenance

Capital Improvement Project

PRINCE GEORGES COUNTY DRAINAGE COMPLAINT RESOLUTION PROCESS

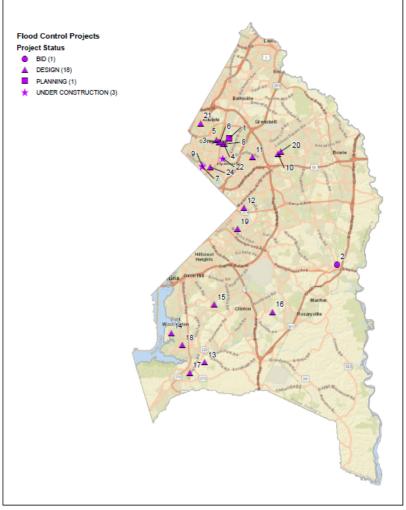


CURRENT DOE WATER QUANTITY (FLOOD CONTROL) PROJECTS



DoE Flood Control Projects Planning, Design & Construction





Source: DoE, SD & SMD, Nov 2022

PRESENTATION TITLE 35

Solutions for Homeowners Private Residential Properties

DoE Capital Improvement Program (Priority Drainage Relief Program)

The Department of the Environment (DoE) responds to and evaluates requests from residential property owners (private property) experiencing adverse flooding, drainage and erosion conditions originating from non-public sources.

Eligibility

- DoE utilizes a three-tiered priority system to outline criteria for storm drainage projects to be included in the Capital Improvements Program. Drainage improvement projects are categorized and prioritized by severity and proximity to private residential structures.
- Residential Properties experiencing qualified recurrent habitable structural flooding or threat to habitable structural integrity due to severe erosion will have the highest priority.

Non-Qualifying Conditions

- Groundwater. Remediation of issues associated with groundwater conditions are considered the responsibility of the property owner.
- 100-Year Floodplain delineation. Remediation of issues associated with floodplain conditions are considered the responsibility of the property owner.
- Commercial, Industrial, Institutional properties will not be considered for public CIP funded projects

Types of Solutions (Best Management Practices)

- Storm Drain and Yard Inlets
- Grassed Swales
- Rain Gardens





How Do We Fix these Problems?





UPDATE OF HOMEOWNER GUIDE

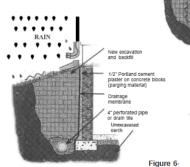
will be making a continuous effort to relieve the pressure it has built up on the outside of the basement walls by leaking into the basement. Since foundation walls are often constructed of concrete blocks which are hollow, a defect on the exterior surface of the wall may result in the lower courses of block becoming Ailed with water. If the interior side of the block is sound, this condition may go unnoticed for a considerable period of time until the interior surface begins to leak (Figure 4).

The most common water removal method is to place a perforated pipe under the slab around the inner perimeter of the basement. This pipe collects the water and is sloped in such a way that it will deliver the collected water to a suitable discharge point, such as a sump pump pit (Figure 5).

Indications that suggest this source of flooding include leaking cracks in the interior basement walls, and depressions or cracks in the soil which appear to be well drained in the ground surface adjacent to the house.

Prevention-Grading. to insure positive drainage away from all sides of the house, will aid in preventing the

entrance of surface water into the All material adja, when to the basement walls (Figure 8). Where All material is being used to raise the ground surface elevations: be sure to use a non-organic and root-free soil that is relative- ly impervious to water (such as clay). A word of caution concerning clay: caly materials can swell or "bulk," causing additional pressure



4-Gameter pipes through
wall at a maximum of 6 apart
distribution of 6 apart
d

grade. Grade should be sloped away from building 112" per foot minimum

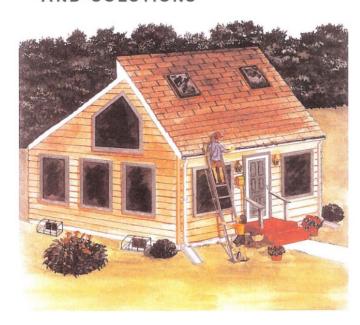
Rain water will run

down wall if not diverted. See Figure 1

4 * RESIDENTIAL DRAINAGE: A HOMEOWNER'S GUIDE TO WATER DRAINAGE PROBLEMS

Residential Drainage

A HOMEOWNER'S GUIDE TO DRAINAGE PROBLEMS AND SOLUTIONS



STORMWATER- COOL STUFF

CLEAN WATER PARTNERSHIP

"Our community-based model is founded on training and working with small, local and minority-owned businesses, enabling them to participate in projects that provide benefits to the environment, the community and likewise to their business as an opportunity for long-term sustainability,"

4,000+ impervious acres treated to manage runoff that otherwise could have polluted streams, wetlands, lakes and the Chesapeake Bay.

\$175 million in subcontracts to qualified local and disadvantaged, minority business enterprises.

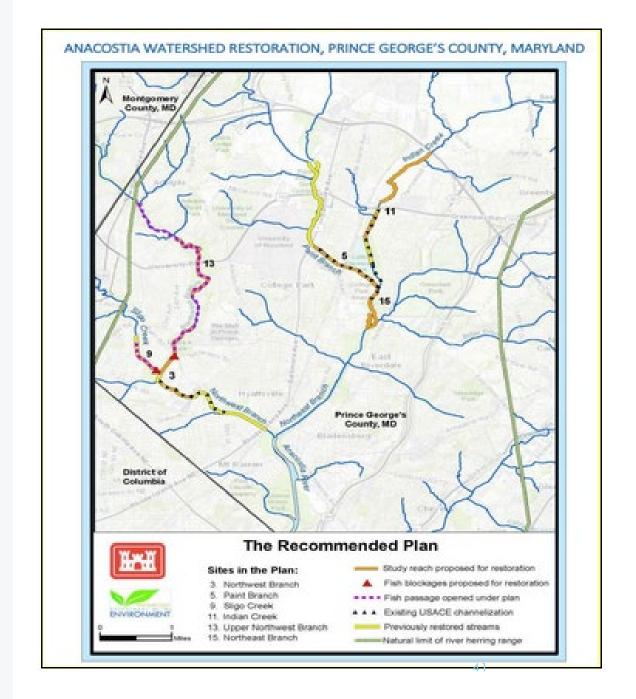
79% county-based, small, women, and minority owned business participation, exceeding a 40% goal 76% local business participation, exceeding a 50% goal

63% resident participation, exceeding a 51% goal

USACE PARTNERSHIP-ANACOSTIA RESTORATION

Project Cost: ~\$54M

• County Cost: ~\$18M





POLICY DEVELOPMENT

Raincheck Rebate Stormwater
Management and
Residential Resilience
Retrofit Program

- Took a program that had big impacts in a number of areas (water quality, engagement, nuisance flood mitigation, urban canopy), had limitations (residents had to put up to \$4000 towards a project, apply for a rebate, and wait for a check).
- Widened availability, by building a County-cost share, with no upfront cost from resident and increased maximum amount to make more project types available (\$6000) to residents with limited ability to fund any portion.





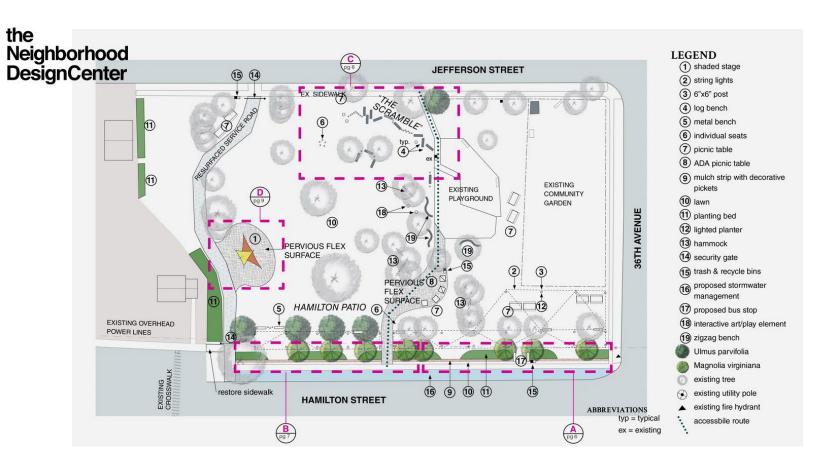
STORMWATER AND PUBLIC ART

- https://www.arts.gov/impact/creative-placemaking/exploring-our-town/chattanooga-tn-main-terrain-art-park
- https://cnt.org/blog/public-art-installations-meet-greenstormwater-infrastructure

PRESENTATION TITLE

HYATTSVILE PARK





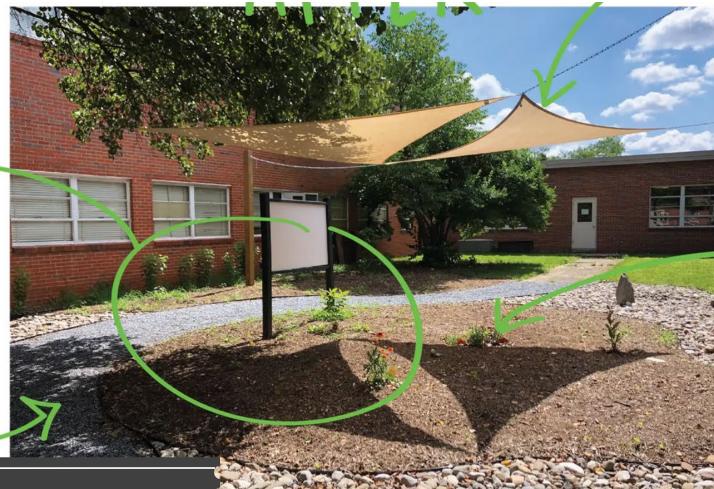
PRESENTATION TITLE 45



the Neighborhood DesignCenter

NICRO ECOSYSTEM CAN AVENT CORRICULUM

H REDUCES LUNOFF



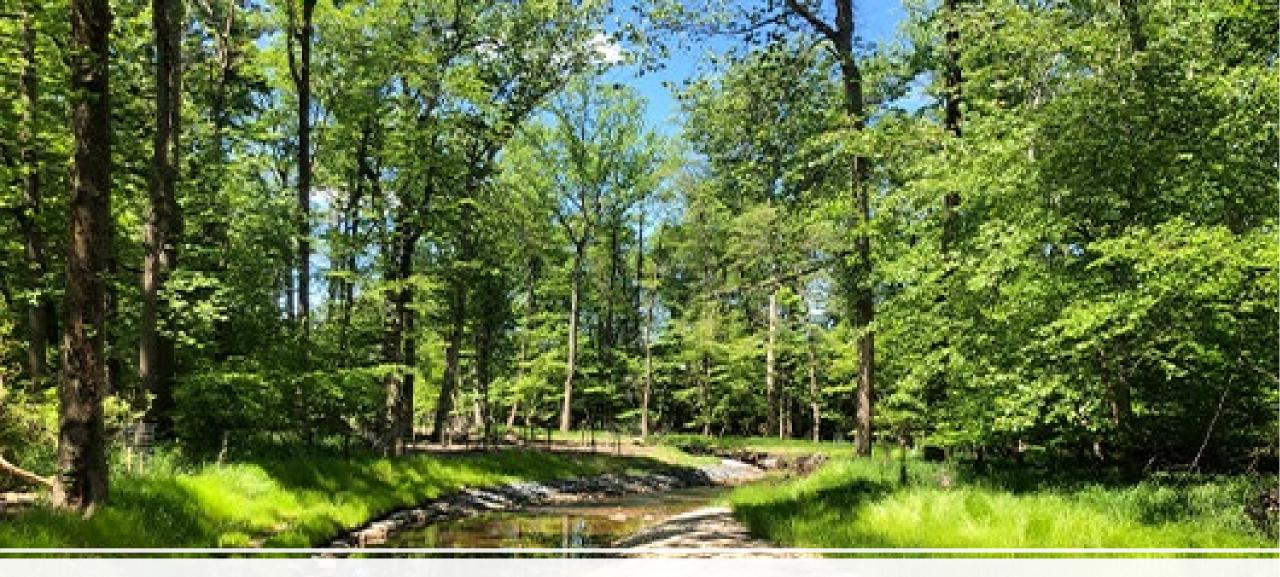
BIODIVERSITY

GLENRIDGE ELEMENTARY

> VARIED SURFACES ACT AS A ROBOT COURSE



PROJECT DESIGN- IN DEVELOPMENT- NEW CARROLTON METRO



STREAM RESTORATION- RECREATION OPPORTUNITY

Stormwater Trees

Technical Memorandum





STORMWATER AND URBAN COOLING







STORMWATER AND BUILDING EFFICIENCY

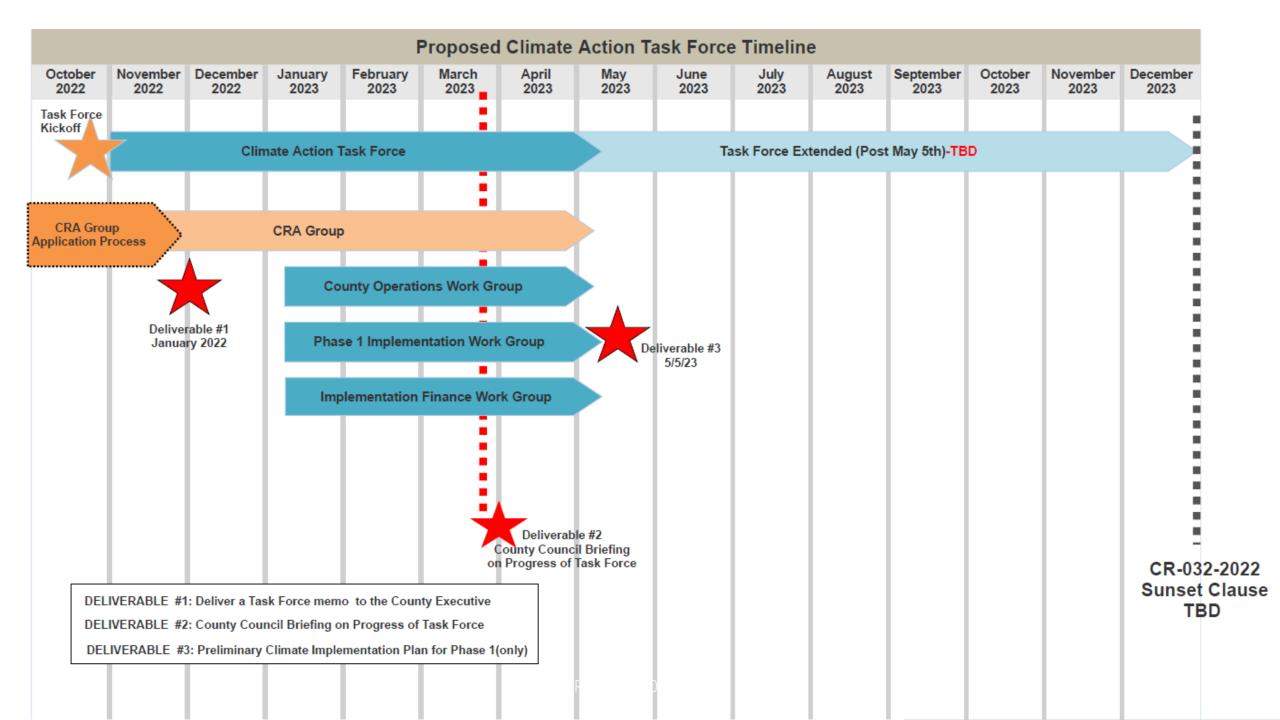
CLIMATE ACTION IMPLEMENTATION TASK FORCE

+

ANDREA CROOMS, PRINCE GEORGE'S COUNTY DEPARTMENT OF THE ENVIRONMENT

RESPONSIBILITIES OF TASK FORCE

- To develop strategies and actions to achieve these emissions and resilience goals guided by the Draft Climate Action Plan and Supplemental Public Comments, the Environmental Justice Commission Report of 2019, and the continuously evolving best practices across the State and region
- To develop strategies and actions to prioritize Climate Solutions in County Government Operations and to incorporate environmental justice and climate equity policy into decision making across the County Government's portfolio
- To deliver a preliminary report to the County Executive, before the development of the Fiscal Year 2024 budget, recommending implementation strategies for Climate Action across the County Government that shall include a prioritization of these strategies as well as costs and proposed funding mechanisms
- To oversee the development of, and approve the Climate Action Implementation Plan for Prince George's County, to be published in Calendar Year 2023



MEMBERSHIP OF TASK FORCE-COUNTY GOVERNMENT AGENCIES

- Department of the Environment Chair
- Office of Central Services (OCS) Vice Chair
- Department of Permitting, Inspections and Enforcement (DPIE)
- Department of Public Works and Transportation (DPWT)
- Office of Emergency Management (OEM)
- Department of Housing and Community Development (DHCD)
- Housing Authority
- Redevelopment Authority
- Deputy Chief Administrative Officer for Economic Development
- Health Department
- Prince Georges County Planning Department
- Prince George's County Department of Parks and Recreation
- Office of Management and Budget*

MEMBERSHIP OF COMMITTEE - ADDITIONAL REPRESENTATIVES

- A representative designated by County Council
- A representative designated by the Resident Advisory Group
- Economic Development Corporation
- Maryland-National Capital Park and Planning Commission
- Prince George's County Public Schools
- Prince George's County Municipal Association
- FSC First

Table VI-1. Priority Recommendations

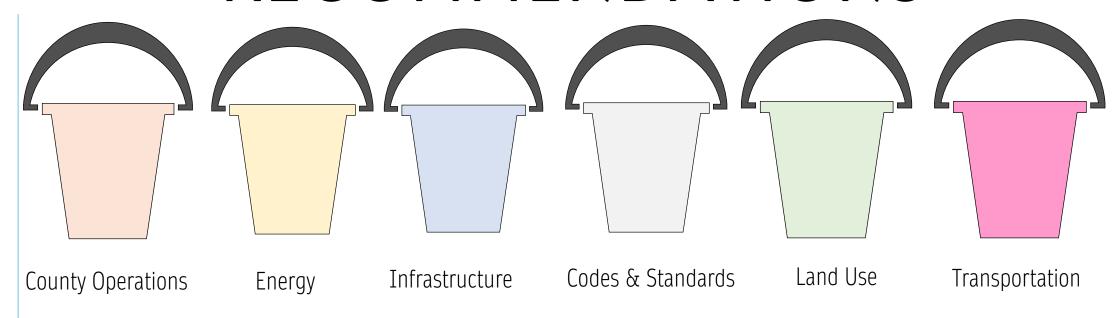
Rec #	Recommendation					
COUNT	Y OPERATIONS					
CO-1	Build internal capacity to plan and implement climate action					
CO-2	Lead by example and ensure transparency in climate action					
CO-3	Ensure meaningful, equitable community engagement					
CO-4	Commit to clean and renewable energy					
CO-5	Strengthen land use regulations to better align individual land use decisions with State and County policies related to smart growth, natural resource conservation, and green infrastructure					
MITIGA	TION					
M-1	Power County operations with 100% renewable energy					
M-2	Increase deployment of solar PV in the residential and commercial sectors by expanding partnerships, incentives, and financing solutions					
M-3	Accelerate deployment of resilient energy systems					
M-4	Accelerate deployment of EVs and charging infrastructure by County and other public agencies					
M-5	Develop a community-wide EV deployment strategy					
M-6	Support telecommute policies to reduce VMT and enhance County resiliency					
M-7	Increase investment in Activity Centers					
M-8	Accelerate implementation of deep energy retrofits and community-wide efficiency and weatherization efforts					
M-9	Establish building benchmarking requirements and energy and water consumption standards					
M-10	Expand County waste reduction and diversion efforts					
M-11	Enact and enforce "No Net Loss" tree conservation regulation and policy to maintain and expand street tree canopy and forest as a land cover					

Rec #	Recommendation					
ADAPTATION						
A-1	Integrate climate resilience criteria into long-range County plans, policies, and CIP programs by 2026					
A-2	Implement climate resilient stormwater management and expand flood mitigation programs					
A-3	Prioritize preserving and restoring natural resource areas and agricultural open space to reduce flood risk					
A-4	Evaluate and address climate risk to dams and levees					
A-5	Require community-wide climate resilient green infrastructure					
A-6	Expand information and assistance to the public regarding Impacts of climate risks and opportunities to implement climate actions					
A-7	Reduce exposure of vulnerable populations to extreme heat					
A-8	Establish resilience hubs to serve the needs of vulnerable communities					
A-9	Adopt codes, standards, and practices to support climate- ready green buildings and development					
A-10	Promote a healthy food system supported by low-carbon, regenerative agricultural practices					

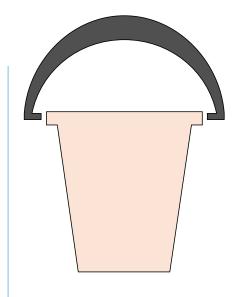
All of these recommendations — as well as the broader strategies that underpin them — are designed to align with the climate goals of our state and regional partners, so that Prince George's County can support these larger goals at our local scale. Where possible, we have also organized our discussion according to the sectors found in the Maryland Greenhouse Gas Reduction Act and in the Metropolitan Washington Council of Government's Climate and Energy Action Plan.

CO-1	Build internal capacity to plan and implement climate action	in early 2022.		Step 3. Perform a valuation analysis of County resources to identify opportunities for leveraging County assets and property value to secure new financing for climate resilience projects.	George's County Climate-Ready Leadership Summit ir 2022.	Ready Leadership Team.	enable through County Council legislation a Prince George's County Resilience Authority.	training and ongoing professional development for all government employees annually.	Integrate climate change knowledge and skills in	Step 9. Allocate budget for new staff to help implement CAP.
M-6	Support telework policies to reduce VMT and enhance	Step 1: Conduct an employee commute survey.	participation in telework and alternative work schedules.	outreach efforts to encourage	IT and office	Step 5: Promote teleconferencing to reduce employee travel.				
M-10	Expand County waste reduction and diversion efforts	Step 1. Conduct a feasibility study to assess and provide implementation recommendations for carbon emissions analysis of landfill operations.	Step 2. Community Survey	Step 3. Rollout of the countywide curbside composting program.	residents to properly	programs.				
A-1		Step 1. Office of Climate Resilience Integration (OCRI):	County Executive must	regulatory support		Council climate resilience	annual updates to the County Council on the progress of integrating climate	and maintain a web-based CAP		
A-6	Expand information and assistance to the public regarding Impacts of climate risks and opportunities to implement	Step 1. Identify and connect existing support programs to CAP recommendations.			Partnerships to Expand Climate Education.	Step 5. Require and establish cross-sector collaboration for climate change funding and community-wide initiatives.				

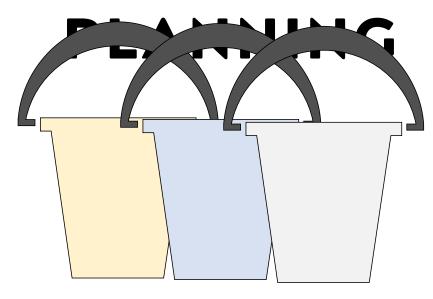
"SIX BUCKETS" TO GROUP PRIORITY RECOMMENDATIONS



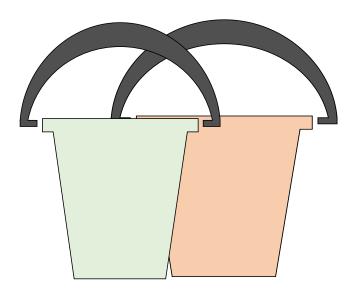
INTERRELATED SECTOR ACTIONS GROUPED TO DIRECT TASK FORCE IMPLEMENTATION



County Operations



Energy/Infrastructure/Code



Land Use/Transportation

COUNTY OPERATIONS & OUTREACH

	CO-1	Build internal capacity to plan and implement climate action
	CO-2	Lead by example and ensure transparency in climate action
	CO-3	Ensure meaningful, equitable community engagement
	M-1	Power County operations with 100% renewable energy
COUNTY OPERATIONS	M-4	Accelerate deployment of EVs and charging infrastructure by County and other public agencies
	M-6	Support telecommute policies to reduce VMT and enhance County resiliency
	M-10	Expand County waste reduction and diversion efforts
	A-1	Integrate climate resilience criteria into long-range County plans, policies, and CIP programs by 2026
	A-6	Expand information and assistance to the public regarding Impacts of climate risks and opportunities to implement climate actions

ENERGY & INFRASTRUCTURE

	60.4	
	CO-4	Commit to clean and renewable energy
	M-2	Increase deployment of solar PV in the residential and commercial sectors by expanding partnerships, incentives, and financing solutions
ENERGY	M-3	Accelerate deployment of resilient energy systems
LIVERUT	M-8	Accelerate implementation of deep energy retrofits and community-wide efficiency and weatherization efforts
	M-9	Establish building benchmarking requirements and energy and water consumption standards
	A-2	Implement climate resilient stormwater management and expand flood mitigation programs
INFRASTRUCTURE	A-4	Evaluate and address climate risk to dams and levees
	A-7	Reduce exposure of vulnerable populations to extreme heat
	A-8	Establish resilience hubs to serve the needs of vulnerable communities
CODES AND STANDARDS	A-9	Adopt codes, standards, and practices to support climate ready green buildings and development

LAND USE, DEVELOPMENT & TRANSPORTATION

	CO-5	Strengthen land use regulations to better align individual land use decisions with State and County policies related to smart growth, natural resource conservation and green infrastructure
	M-7	Increase investment in Activity Centers
LAND USE	M-11	Enact and enforce "No Net Loss" tree conservation regulation and policy to maintain and expand street tree canopy and forest as a land cover
	A-3	Prioritize preserving and restoring natural resource areas and agricultural open space to reduce flood risk
	A-5	Require community-wide climate resilient green infrastructure
	A-10	Promote a healthy food system supported by low-carbon, regenerative agricultural practices
TRANSPORTATION	M-5	Develop a community-wide EV deployment strategy
STORMWATER	A-2	Implement climate resilient stormwater management and expand flood mitigation programs

TASK FORCE CORE WORK GROUPS



County Operations & Engagement Work Group



Energy & Infrastructure Work Group



Land Use, Development & Transportation Work Group

TASK FORCE ROADMAP WORK GROUPS



Economic Development Roadmap Work Group

Water???

TBD

TASK FORCE CORE WORK GROUPS



County Operations & Engagement Work Group



Parallel Efforts DoE will work with consultants to propose:

- A website/dashboard for public reporting and tracking process
- Develop a climate action statement for county
- Develop template or protocol for evaluating equity
- Develop a template or protocol for evaluating climate action in other priorities

WORKGROUP PROCESS

- DoE and Consultants will provide tools and templates, let us know what other tools and data you need
- Define what data you need (DoE/consultant will help determine what we already have vs. what we need to gather/study)
- Define what studies/analyses you need
- Develop near term recommendations for CEX for FY24
 - Also recommend anything that is a current barrier to the agency/sector/org's core work
 – that needs to be immediately addressed by CEX in any updated exec order
- Review proposed priorities- update and organize
- Review proposed steps- update and prioritize, determine prudence, add, amend, add nuance
 - FY24 steps based on capacity building and studies, near term actions that can be taken
 - Note steps that contradict or are redundant
 - Note steps that contradict other county priorities conflicts that need to be resolved
 - (consultants will also review comments made to draft CAC and separate them by proposed recommendations so you can see them in one place)
 - Identify who would be the actors and responsible parties in the steps
 - What is the County's role- are we responsible/is it in our control, advocating, convening, funding, regulating, etc?
 - Who are the stakeholders needed to accomplish the goal
 - Who needs a seat at the table- to ensure buy in, accountability, and equity

NEXT STEPS

