Drainage and Flooding in Prince George’s County
Common Drainage Complaints

- "Too much surface stormwater in my yard and a lack of sufficient storm drain inlets"
- "Surface water floods into my parking lot, street, structure, or basement"
- "Major stream flooding into my yard, my structure or basement"
- "Groundwater and perched water tables draining into my yard areas"
- "Clogged storm drains in streets or yards, overflowing onto my property"
- "Surface water is ponding in my yard"
- "Neighbor's shed or fence is blocking flow of swale"
- "Neighbor's sump pump discharging into my yard"
- "Major stream or swale is causing erosion"
- "Surface water is ponding in my yard"
Countywide Drainage Complaints
Feb. 2018 - Feb. 2021

311 Drainage Complaints (FEB 2018 to 2021)
- Flooding (Yard/Private Property) (1,137)
- Flooding and Drainage Issues (Public Right-of-Way) (1,238)
- Sinkholes (Private Property) (589)
- Sinkholes (Public Right-of-Way) (1,398)

SWM Flood Control Projects (1993 to Present DOE)
- In Progress (13)
- Completed (151)

Council Districts

Note: This map only contains service requests in Motorola. Does not include 911 calls.
## Stormwater Management Funding in the FY22 Proposed Budget

<table>
<thead>
<tr>
<th>Agency</th>
<th>FY 2022 Operating</th>
<th>FY 2022 Capital*</th>
<th>Total FY 2022 Proposed</th>
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<tr>
<td>DPWT</td>
<td>$ 4,620,000</td>
<td>$ 20,378,500</td>
<td>$ 24,998,500</td>
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<tr>
<td>DoE</td>
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<td>$ 15,459,000</td>
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<td>DPIE</td>
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<td>SOIL</td>
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<td>Total</td>
<td>$ 4,917,900</td>
<td>$ 35,837,500</td>
<td>$ 40,755,400</td>
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Operating Funds consist of expenses related to staff working on SWM issues.

Capital Funds consist of vendor contracts who construct remedies for SWM issues.

* Includes only new funding for FY 2022. There may be additional carry forward/unspent monies from FY 2021.
Why Prince George’s County?

Water Problems

- Flat Land
- Built Before Regulations
- High Groundwater
- Bad Soil

Why are houses in the Floodplain?
Many houses in Prince George’s County were built before floodplain maps and regulations were established.

Water Quantity Control Regulations Timeline

- Before 1980's: None
- 1980's to 2001: Regional ponds
- 2001: 1-year, 10-year, 100-year storm
- 2011 to present: 2-year, 10-year, 100-year storm
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
Drainage Relief - Roles of Agencies

- Drainage Investigation and Resolution
  - Private Property
    - DoE (Private property including Residential Communities)
    - DPIE (New Development - built within past 5-years or w/open grading permit)
  - County Public Right-of-Way
    - DPW&T (Drainage issues within the Public RoW)
    - DPIE (Drainage issues within Public ROW still under development)
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
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.

Components

- Built Before Regs
- Yard Inlets
- Outfalls
- Ponds
- Roadside Ditches
- Roadside Curb Inlets
- Pipes of Varying Sizes
- Channels*

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

*Grass, Concrete, Stone or Asphalt
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.
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
Kidder Road Storm Drain Improvement
- Project Type – Flood Control
- Location: Clinton
- Homes Protected: 4 homes
- Combination of 15 in RCP pipe system to alleviate flooding
- Completed: February 28, 2018

Horizon Estates Storm Drain Improvement
- Project Type – Flood Control
- Location: Ft. Washington
- Homes Protected: 33 homes
- Combination of 15 in RCP pipe and Underdrains to alleviate flooding
- Completed: June 23, 2020

Martha St. & Ritchie Rd. Storm Drain Improvement
- Project Type – Flood Control
- Location: Forestville
- Homes Protected: 12 homes
- Combination of 15 in RCP pipe & Concrete Swale to alleviate flooding
- Completed: February 6, 2020
DPW&T Projects

Berwyn Heights Inlet Upgrades
- Project Type – Local Drainage
- Location – Town of Berwyn Heights
- Installed new and upsized inlets
- Completed Fall 2018

Daisy Lane Storm Drain
- Project Type – Local Drainage
- Location – Glenn Dale
- Installed storm drain
- Anticipated completion May 2021
How Do We Fix these Problems?

- **Code Changes**
- **Manual Changes**
  - Increased funding for County Capital Improvement Program
  - Drainage Improvements
  - Developer and Builder Remedies for New Homes
  - Homeowner or Property Owner Remedies
- **Enhanced Enforcement**
- **Improved Communication**
Homeowner or Builder/Developer Remedies

- Regrade swales to achieve positive drainage
- Regrade earth around house to achieve positive drainage
- Connect sump pump to storm drain
- Replace or upsize sump pump
- Maintain/Unclog storm drain and stormwater management systems
- Modify structure -- seal basement windows, raise basement stairwells and other floodproofing to prevent intrusion of surface water
- Install drainage pipes to intercept groundwater and perched water table
- Remove or modify sheds, fences and other structures that are blocking flow of stormwater
Builder/Developer or County Investment Remedies

- Install more storm drain in areas with excessive flows
- Reconstruct street to a higher elevation (above floodplain) *
- Construct levee and pump station to keep floodwaters out of property *
- Armor stream with rip rap to prevent erosion of property
- Install regional stormwater management pond to reduce downstream flows *

* not common
<table>
<thead>
<tr>
<th>Category</th>
<th>Recommendations</th>
<th>Why is this important?</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Educate private system owners/operators on proper maintenance protocol, frequencies and benefits of system management.</td>
<td>To reduce flooding complaints caused by the property owner.</td>
</tr>
<tr>
<td></td>
<td>Require fences to be built at least 6 inches above swales and at least 1 inch above the ground surface everywhere else.</td>
<td>To avoid storm water being trapped and ponding in yards.</td>
</tr>
<tr>
<td></td>
<td>Enhance procedures for resolving New Home Drainage Complaints. Lead agency - DPIE.</td>
<td>Ensure developers and builders resolve before permits are closed.</td>
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The County’s Short-Term Recommendations
# The County’s Short-Term Recommendations

<table>
<thead>
<tr>
<th>Category</th>
<th>Recommendations</th>
<th>Why is this important?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Require any part of the house such as doors, top of exterior stairwells to basements, BILCO doors, basement windows to be set one foot above overflow elevation <strong>AND</strong> show 100-year overflow point on permit plans.</td>
<td>So that storm flows cannot enter basements.</td>
</tr>
<tr>
<td></td>
<td>Revise street storm drain inlets located in low points to be at least 15 feet long (current requirement is 10 feet).</td>
<td>So that larger storm flows will be intercepted in the street and not overflow through your yard.</td>
</tr>
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</table>
# The County’s Mid-Term Recommendations

## Category

<table>
<thead>
<tr>
<th>Recommendations</th>
<th>Why is this important?</th>
</tr>
</thead>
<tbody>
<tr>
<td>Connect sump pumps, foundation drains into a drainage system.</td>
<td>Get the water out of your basement and out of your yard.</td>
</tr>
<tr>
<td>Springs and surface seeps and other ground waters shall be capped with stone and perforated pipes connecting into a piped outfall.</td>
<td>Get nuisance storm water out of your yard.</td>
</tr>
<tr>
<td>Require use of the higher range runoff coefficient factors.</td>
<td>To reduce the amount of storm flow in your yard.</td>
</tr>
<tr>
<td>Increase minimum allowable yard and swale slopes to 3%.</td>
<td>To better ensure surface storm water exits property quickly.</td>
</tr>
</tbody>
</table>
The County’s Mid-Term Recommendations

<table>
<thead>
<tr>
<th>Category</th>
<th>Recommendations</th>
<th>Why is this important?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Require swales with drainage area exceeding 5 acres located at least 100 feet set back from any residential lot line.</td>
<td>To reduce the chance of swales causing yard erosion.</td>
</tr>
<tr>
<td></td>
<td>Require continuous backyard storm drain pipe system.</td>
<td>So builders and homeowners can easily connect sump pumps and foundation drains or yard inlets in low spots and get the storm water in a pipe and out of the yard.</td>
</tr>
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</table>
# The County’s Long-Term Recommendations

<table>
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<th>Category</th>
<th>Recommendations</th>
<th>Why is this important?</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Require storm drain culverts and enclosed systems that intercept offsite drainage, convey the ultimate 100-year storm flow.</td>
<td>To ensure that enclosed storm drain can convey flows without impacting properties.</td>
</tr>
<tr>
<td></td>
<td>Provide funding to update Watershed Models to incorporate Built SWM Ponds and watershed conditions. Currently, the County’s model of each watershed to define hydrologic and hydraulic effects of various storm water management ponds from a quantity control and flooding standpoint needs to be updated.</td>
<td>To have a more accurate method of deciding where 100-year control ponds are needed or not.</td>
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</table>
## The County’s Long-Term Recommendations

<table>
<thead>
<tr>
<th>Category</th>
<th>Recommendations</th>
<th>Why is this important?</th>
</tr>
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<tbody>
<tr>
<td></td>
<td>Increase funding for maintenance storm water management systems.</td>
<td>So that our systems remain operational.</td>
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<td></td>
<td>Enable DoE and DPW&amp;T drainage projects to be implemented in an expeditious manner (more funding). Implement design build approach to expedite resolution.</td>
<td>Quicker resolution to existing drainage and flooding concerns.</td>
</tr>
</tbody>
</table>
Thanks!

Any questions?
Note: This map only contains service requests in Motorola. Does not include 911 calls.

311 Drainage Complaints (FEB 2018 to 2021)
- Flooding (Yard/Private Property) (1,137)
- Flooding and Drainage Issues (Public Right-of-Way) (1,238)
- Sinkholes (Private Property) (589)
- Sinkholes (Public Right-of-Way) (1,398)

SWM Flood Control Projects (1993 to Present DOE)
- In Progress (13)
- Completed (151)

<table>
<thead>
<tr>
<th>SWM Flood Control Projects (1993 to present DOE)</th>
<th>Council District</th>
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<tr>
<td>In Progress</td>
<td>1 2 3 4 5 6 7 8 9</td>
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<tr>
<td>Completed</td>
<td>6 14 16 6 16 21 13 33 26</td>
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<td>Grand Total</td>
<td>6 16 23 6 17 21 13 35 27</td>
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Service Type
311 Drainage Complaints (FEB 2018 to 2021)

<table>
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<th>Service Type</th>
<th>Council District</th>
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<tr>
<td>Flooding (Yard/Private Property)</td>
<td>62 62 114 45 138 149 110 227 230</td>
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<tr>
<td>Flooding and Drainage Issues (Public Right-of-Way)</td>
<td>66 54 96 36 100 140 154 299 293</td>
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<td>Sinkholes (Private Property)</td>
<td>36 11 50 31 52 88 72 124 125</td>
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<td>Sinkholes (Public Right-of-Way)</td>
<td>100 38 146 101 156 216 113 226 302</td>
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<tr>
<td>Grand Total</td>
<td>264 165 406 213 446 593 449 876 950</td>
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Source: DoE, SD, Motorola Data, March 2021
# 311 Drainage Complaints by year and district

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<th>Service Type</th>
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<td>593</td>
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</table>
311 Drainage Complaints (FEB 2018 to 2021)
- Flooding (Yard/Private Property) (65)
- Flooding and Drainage Issues (Public Right-of-Way) (67)
- Sinkholes (Private Property) (36)
- Sinkholes (Public Right-of-Way) (101)

SWM Flood Control Projects (1993 to Present DOE)
- In Progress (0)
- Completed (6)

Note: This map only contains service requests in Motorola. Does not include 911 calls.

Source: DoE, SD, Motorola Data, March 2021
311 Drainage Complaints (FEB 2018 to 2021)
- Flooding (Yard/Private Property) (62)
- Flooding and Drainage Issues (Public Right-of-Way) (57)
- Sinkholes (Private Property) (11)
- Sinkholes (Public Right-of-Way) (40)

SWM Flood Control Projects (1993 to Present DOE)
- In Progress (2)
- Completed (14)
- Floodplain (21)
- Council Districts

Note: This map only contains service requests in Motorola. Does not include 911 calls.

Source: DoE, SD, Motorola Data, March 2021
311 Drainage Complaints (FEB 2018 to 2021)
- Flooding (Yard/Private Property) (118)
- Flooding and Drainage Issues (Public Right-of-Way) (105)
- Sinkholes (Private Property) (51)
- Sinkholes (Public Right-of-Way) (161)

SWM Flood Control Projects (1993 to Present DOE)
- In Progress (7)
- Completed (17)
- Floodplain (81)
- Council Districts

Source: DoE, SD, Motorola Data, March 2021

Note: This map only contains service requests in Motorola. Does not include 911 calls.
Note: This map only contains service requests in Motorola. Does not include 911 calls.
311 Drainage Complaints (FEB 2018 to 2021)
- Flooding (Yard/Private Property) (147)
- Flooding and Drainage Issues (Public Right-of-Way) (107)
- Sinkholes (Private Property) (54)
- Sinkholes (Public Right-of-Way) (164)

SWM Flood Control Projects (1993 to Present DOE)
- In Progress (1)
- Completed (19)
- Floodplain (101)
- Council Districts

Note: This map only contains service requests in Motorola. Does not include 911 calls.

Source: DoE, SD, Motorola Data, March 2021
District 6 Drainage Complaints
February 2018 thru February 2021

311 Drainage Complaints (FEB 2018 to 2021)
- Flooding (Yard/Private Property) (156)
- Flooding and Drainage Issues (Public Right-of-Way) (147)
- Sinkholes (Private Property) (97)
- Sinkholes (Public Right-of-Way) (233)

SWM Flood Control Projects (1993 to Present DOE)
- In Progress (1)
- Completed (22)
- Floodplain (28)
- Council Districts

Note: This map only contains service requests in Motorola. Does not include 911 calls.

Source: DoE, SD, Motorola Data, March 2021
311 Drainage Complaints (FEB 2018 to 2021)
- Flooding (Yard/Private Property) (115)
- Flooding and Drainage Issues (Public Right-of-Way) (166)
- Sinkholes (Private Property) (76)
- Sinkholes (Public Right-of-Way) (126)

SWM Flood Control Projects (1993 to Present DOE)
- In Progress (0)
- Completed (14)
- Floodplain (33)
- Council Districts

Note: This map only contains service requests in Motorola. Does not include 911 calls.

Source: DoE, SD, Motorola Data, March 2021
311 Drainage Complaints (FEB 2018 to 2021)
- Flooding (Yard/Private Property) (230)
- Flooding and Drainage Issues (Public Right-of-Way) (320)
- Sinkholes (Private Property) (130)
- Sinkholes (Public Right-of-Way) (235)

SWM Flood Control Projects (1993 to Present DOE)
- In Progress (2)
- Completed (34)

Floodplain (70)
Council Districts

Note: This map only contains service requests in Motorola. Does not include 911 calls.
District 9 Drainage Complaints
February 2018 thru February 2021

311 Drainage Complaints (FEB 2018 to 2021)
- Flooding (Yard/Private Property) (247)
- Flooding and Drainage Issues (Public Right-of-Way) (317)
- Sinkholes (Private Property) (140)
- Sinkholes (Public Right-of-Way) (309)

SWM Flood Control Projects (1993 to Present DOE)
- In Progress (1)
- Completed (27)
- Floodplain (144)
- Council Districts

Note: This map only contains service requests in Motorola. Does not include 911 calls.

Source: DoE, SD, Motorola Data, March 2021
DPW&T
Drainage Improvements

Recently completed and Ongoing Projects
• D1 – 7018 Redmiles Storm Drain repair
  • Project Type – Local Flooding (Urban)
  • Location – Laurel
  • Installed inlet and storm drain
  • Completed March 2020

• D1 – Greencastle Bridge and Storm Drain
  • Project Type – Flood Control
  • Location – Laurel
  • Installed inlet and storm drain
  • Completed March 2020
• **D2 – Allison Street Levee**
  • Project Type – Flood Control
  • Location – Laurel
  • Upgrade existing levee system
  • Anticipated Completed 2021

• **D3 – Wells Run Channel Improvements**
  • Project Type – Flood Control
  • Location – Riverdale
  • In-Kind replacement and Naturalization of channel
  • Anticipated Construction in 2022
• D3 – Berwyn Heights Inlet Upgrades
  • Project Type – Local Drainage
  • Location – Town of Berwyn Heights
  • Installed new and upsized inlets
  • Completed Fall 2018

• D4 – Daisy Lane Storm Drain
  • Project Type – Local Drainage
  • Location – Glenn Dale
  • Installed storm drain
  • Anticipated completion May 2021
• D5 – Otis Street Outfall
  • Project Type – Local Flooding
  • Location – Laurel
  • Installed inlet and storm drain
  • Anticipated Completion is Fall 2021

• D6 – Pinevale Drainage Improvements
  • Project Type – Local Flooding (Urban)
  • Location – District Heights
  • Installed inlets and storm drain
  • Completed December 2020
• D7 – Suitland Outfall
  • Project Type – Local Flooding (Urban)
  • Location – Hillcrest Heights
  • Installed inlet and storm drain
  • Completed Summer 2019

• D8 – Trafalgar Outfall
  • Project Type – Outfall Repair
  • Location – Fort Washington
  • Repaired failed outfall
  • Completed December 2019
• D8 – Groveton
  • Project Type – Local Flooding (Urban)
  • Location – Clinton
  • Installed inlet and storm drain
  • Completed March 2019

• D9 – South Springfield Road Washout
  • Project Type – Emergency Repair
  • Location – Brandywine
  • Installed inlet and storm drain
  • Completed 2016