

## District of Columbia 2020–2021 Programmatic Water Quality Milestones: Update

Target Date	Milestone & Description	Agency	Update
<b>URBAN STORMWATER</b>			
Urban Stormwater Management Policy and Implementation			
31-Dec-21	<p><b>Milestone:</b> Numeric: Manage 200 acres of the District's MS4 area with runoff reduction stormwater best management practices.</p> <p><b>Description:</b> The District's MS4 permit sets a 5-year goal to manage 1,038 acres with stormwater BMPs. Year-to-year performance will vary, so the numeric milestone provided here to manage 200 acres using the Stormwater Performance Standard – Runoff Reduction BMP represents a conservative estimate of two-year progress and also does not include stormwater management on federal lands or managed through tree planting. Phase III WIP Page 86.</p>	DOEE	<p><b>On Track:</b> The District achieved 237 acres managed with stormwater BMPs during the 2020 reporting year. To date, the District has achieved 470 acres managed during the current MS4 Permit term, which is on track to meet the Permit's 5-year goal to manage 1,038 acres.</p>
31-Dec-21	<p><b>Milestone:</b> Finish evaluation of potential options to update District's stormwater regulations and initiate rulemaking process, if appropriate.</p> <p><b>Description:</b> Assess opportunities to implement new stormwater regulations for projects that do not trigger the current regulations. If new regulations are feasible, begin discussions with stakeholder groups for feedback. Phase III WIP Page 87.</p>	DOEE	<p><b>On Track:</b> DOEE has completed the evaluation to assess opportunities for new stormwater regulations and explored the options for new proposed rulemaking with the District's Executive Office of the Mayor, who has given pre-clearance approval for the potential rulemaking updates.</p>

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Target Date	Milestone & Description	Agency	Update
31-Dec-21	<p><b>Milestone:</b> Evaluate potential stormwater fee increase.</p> <p><b>Description:</b> Evaluate options for increasing the District's stormwater fee, including an assessment of opportunities to adjust the stormwater fee to cover new programs and BMP maintenance. Phase III WIP Page 90.</p>	DOEE	<p><b>Complete:</b> The District completed an evaluation of a potential stormwater fee increase in 2020. DOEE included the results of these findings as an attachment in our 2020 MS4 Annual Report submission seen here: <a href="https://doee.dc.gov/publication/ms4-discharge-monitoring-and-annual-reports">https://doee.dc.gov/publication/ms4-discharge-monitoring-and-annual-reports</a> (see 2020 MS4 Annual Report Attachments)</p>
31-Dec-21	<p><b>Milestone:</b> Work with District agencies to evaluate best management practice (BMP) maintenance efforts.</p> <p><b>Description:</b> Work with District agencies to coordinate existing BMP maintenance efforts and assess opportunities for a District-wide green infrastructure strategy. Phase III WIP Page 8.</p>	DOEE	<p><b>Ongoing:</b> DOEE continues to track the status of BMPs throughout the District, including those from other District agencies, utilizing the Surface and Groundwater System database. Additionally, DOEE has explored opportunities to consolidate and increase resource for the maintenance of public BMPs. These efforts have been scaled back due to operating and budget constraints associated with the COVID-19 public health emergency, and resources are being targeted to address sites with the greatest maintenance need.</p>
31-Dec-21	<p><b>Milestone:</b> Implement regulatory amendments to prioritize use of High-Impact Stormwater Retention Credits (SRCs).</p> <p><b>Description:</b> Evaluate options for amending the District's stormwater regulations to require developers buying SRCs to use High-Impact SRCs if they are available and affordable. High-Impact SRCs are generated by new, voluntary green infrastructure (GI) in the MS4 instead of SRCs from practices built pre-2013, in the combined sewer area, or in excess of a regulatory requirement. Phase III WIP Page 103.</p>	DOEE	<p><b>On track:</b> In September 2020, DOEE published proposed regulations prioritizing the use of High-Impact SRCs generated from new, voluntary GI in the MS4. Most regulated development projects that opt to meet a portion of their stormwater retention obligations offsite will be required to use High-Impact SRCs, providing a greater benefit to District waterbodies than SRCs generated from other projects and sites.</p>

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Target Date	Milestone & Description	Agency	Update
31-Dec-21	<p><b>Milestone:</b> Continue implementation of the Stormwater Retention Credit (SRC) Price Lock Program, including support for developers to purchase from SRC Price Lock Program participants.</p> <p><b>Description:</b> SRC Price Lock program enables participants to sell SRCs to the District government at a fixed price, providing confidence to investors who commit funding to green infrastructure (GI) projects. DOEE has \$11.5 million available to fund this program. DOEE can use the funds to purchase and retire SRCs. DOEE will enhance the program to generate demand from developers, including using the funds to pay participants to sell their SRCs at reduced rates, particularly in large or multi-year transactions, to motivate developers to purchase from SRC Price Lock Program participants. Phase III WIP Page 100.</p>	DOEE	<p><b>On track:</b> DOEE supports SRC Aggregators through the SRC Price Lock Program by incentivizing privately funded new, voluntary GI in the MS4 area of the District.</p> <p>At the beginning of January, DOEE launched an SRC subsidy program to incentivize the sale of High-Impact SRCs on the open market. The program offers incentive payments to SRC Aggregators when they reduce the price they charge SRC buyers, particularly in large or multi-year transactions.</p> <p>Throughout 2020, SRC Aggregators sold more than 120,000 SRCs on the private market.</p>
31-Dec-21	<p><b>Milestone:</b> Make progress on developing incentives for building SRC-generating green infrastructure (GI) in the Public Right of Way (PROW).</p> <p><b>Description:</b> Streamline the permitting process to build GI in the PROW to generate SRCs. Develop incentives to reduce the financial risks associated with building GI in the PROW to generate SRCs. Phase III WIP Page 103.</p>	DOEE	<p><b>On track:</b> DOEE coordinated with the District's Department of Transportation (DDOT) on the development of a permitting process and an interagency agreement to facilitate a program to incentivize MS4 GI retrofit in the PROW.</p>

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31-Dec-21	<p><b>Milestone:</b> Continue to implement SRC Aggregator Startup Grant Program.</p> <p><b>Description:</b> SRC aggregating businesses that want to design and install GI from multiple projects can apply for an SRC Aggregator Startup Grant of up to \$75,000. These grants support technical and outreach work to identify GI opportunities on properties whose owners are interested in the financial and other benefits of SRC-generating GI. Phase III WIP Page 102.</p>	DOEE	<p><b>On track:</b> DOEE continued to fund grant activities of 6 SRC-aggregating businesses during FY20. The work by the SRC Aggregators was focused on outreach and technical evaluation for identifying opportunities for GI implementation on private property.</p>
31-Dec-21	<p><b>Milestone:</b> Implement SRC Incentive program to encourage outreach and engagement with community stakeholders and the inclusion of co-benefits to SRC generating practices.</p> <p><b>Description:</b> Develop initiative to allow SRC generators or aggregators to receive additional financial incentives if they conduct outreach to communities who may be impacted by SRC generating projects in order to increase understanding of and support for new green infrastructure. Generators can also receive funding to incorporate elements that provide co-benefits in their installations. Will utilize the WIP Action Team Co-Benefit Fact Sheets to inform co-benefit outreach. Phase III WIP Page 103 and FY20 WIP Assistance Funding.</p>	DOEE	<p><b>Ongoing:</b> Progress in contracting for this work has been delayed by staff turnover and the COVID-19 public health emergency, but DOEE is still committed. DOEE anticipates issuing a Request for Applications to support this work in the first half of 2021.</p>

## District of Columbia 2020–2021 Programmatic Water Quality Milestones: Update

Target Date	Milestone & Description	Agency	Update
31-Jan-20	<p><b>Milestone:</b> Release updated Stormwater Management Guidebook.</p> <p><b>Description:</b> Updates will include green roof and solar panel installations, expanded rainwater harvesting treatment guidelines, and matching DDOT's Bioretention Soil Media Mix for consistent installation at facilities across DC. Phase III WIP Page 88.</p>	DOEE	<p><b>Complete:</b> DOEE published the first full update to the Stormwater Management Guidebook since 2014. Updates included all the technical updates referenced as well as revisions corresponding to the Final Rulemaking published on the same day. DOEE aims to update the Guidebook on a 2 to 3-year cycle in the future. The Guidebook can be found here: <a href="https://doee.dc.gov/swguidebook">https://doee.dc.gov/swguidebook</a>.</p>
Inspections and Enforcement			
31-Dec-21	<p><b>Milestone:</b> Implement a targeted compliance inspection program of industrial discharges conducting aggregate production and recycling activities.</p> <p><b>Description:</b> Conduct targeted compliance inspections of aggregate facilities and other facilities known to potentially contribute suspended solids to stormwater flows and/or point-source discharges. Efforts shall include, but are not limited to, aggressive enforcement actions against ineffective BMPs and failure to comply with maintenance schedules; increased re-inspection frequency for compliance assurance; and ensuring compliance with new Multi-Sector General Permit (MSGP) requirements for benchmark monitoring and effluent guidelines. Phase III WIP Page 139.</p>	DOEE	<p><b>On Track:</b> While physical compliance monitoring inspections were impacted by the COVID-19 public health emergency, DOEE continues to monitor facility compliance remotely. DOEE also continues to work cooperatively with EPA to aggressively enforce and compel compliance with the MSGP and DC Regulations.</p>

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Target Date	Milestone & Description	Agency	Update
31-Dec-21	<p><b>Milestone:</b> Implement strategic sewershed investigation of illicit domestic wastewater discharges.</p> <p><b>Description:</b> Conduct strategic sewershed investigation of District sewersheds to identify and eliminate illicit sources of domestic wastewater. This includes but is not limited to traditional illicit discharges and illegal disposal investigation methods and techniques like CCTV and dye testing. DOEE will also use new innovative sampling and analysis technologies, such as sucralose and qPCR. These sewersheds include Watts Branch and Nash Run, priority subwatersheds identified in the District's Phase III WIP. Phase III WIP Pages 59 &amp; 139.</p>	DOEE	<p><b>On Track:</b> The investigations of Nash Run and Watts Branch continue. The current investigation has identified illicit sources of domestic wastewater and DOEE is actively compelling correction.</p>
31-Dec-21	<p><b>Milestone:</b> Evaluate lessons learned from pilot Self Inspection Self Reporting (SISR) program.</p> <p><b>Description:</b> Conduct evaluation of SISR pilot program to determine potential changes to the program to increase participation and efficiency. Phase III WIP Page 123.</p>	DOEE	<p><b>On Track:</b> DOEE is currently evaluating potential updates and revisions. DOEE's Inspection and Enforcement Division implemented expanded use of the SISR program in response to the need for remote monitoring triggered by the COVID-19 pandemic.</p>

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Restoration			
31-Dec-21	<p><b>Milestone:</b> Numeric: Complete construction of two stream restoration and outfall projects and complete the designs for one stream restoration project.</p> <p><b>Description:</b> Complete the Branch Avenue Park stream restoration project, measuring 550 linear feet, and Park Drive stream restoration project, measuring 1,300 linear feet. Additionally, DOEE will complete designs for the stream restoration of Fort Dupont, measuring 13,000 linear feet. DOEE has two Full Time Equivalent (FTEs) dedicated to stream restoration work. The Urban Stream Restoration BMP would increase 1,850 linear feet by the end of 2021. The Fort Dupont project will increase the Urban Stream Restoration BMP post-2021. Phase III WIP Page 106.</p>	DOEE	<p><b>On Track:</b> In 2020, DOEE completed the Branch Avenue Park stream restoration project. DOEE also issued a contract for stream restoration designs at Fort Dupont, which will restore over 13,000 feet of stream and restore 5-7 acres of wetlands. DOEE advanced designs for the Stickfoot Branch stream restoration project to the 30% phase. DOEE is in the process of awarding a design-build contract for the Park Drive Project which will restore 1,300 feet of severely eroded stream gullies. Additionally, DOEE put the Oxon Run Design Project out for bid, which will result in over 16,000 feet of stream restoration.</p> <p>Two outfalls were stabilized at the Branch Avenue Park stream restoration project. The Stickfoot Branch project will stabilize four outfalls. The Fort Dupont project will stabilize five outfalls. The Park Drive project will stabilize four outfalls.</p>

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31-Dec-21	<p><b>Milestone:</b> Numeric: Initiate three Environmental Assessments for stream restoration projects.</p> <p><b>Description:</b> Work with the National Park Service to perform Environmental Assessments (EAs) for restoring three tributaries in the District of Columbia: Pinehurst Branch, Stickfoot Branch, and Oxon Run. EAs are needed in advance of designing and constructing these stream restoration projects. The Pinehurst and Stickfoot Branch Stream Restoration projects will be completed post-2021 and will add 8,700 linear feet of Urban Stream Restoration BMP towards DOEE's 2025 implementation targets. The Oxon Run Stream Restoration was not included in DC's Phase III WIP Implementation Scenario given it is scheduled for completion post-2025. When completed it will add an additional 16,000 linear feet of Urban Stream Restoration BMP. Phase III WIP Page 106.</p>	DOEE	<p><b>On Track:</b> DOEE advanced the Pre-NEPA process for both Stickfoot Branch and Pinehurst Branch in 2020. DOEE put the Oxon Run Design and EA project out for bids in 2021, with an award and work commencing in 2021.</p>
31-Dec-21	<p><b>Milestone:</b> Numeric: Initiate two large-scale Environmental Assessments covering outfalls on National Park Service land.</p> <p><b>Description:</b> Work with the National Park Service to initiate Environmental Assessments (EAs) for outfalls located within the jurisdiction of Rock Creek National Park and National Capital Parks East. EAs are needed in advance of designing and constructing outfall restoration projects. Completion of the Outfall Restoration project will be completed post-2021 and will result in an additional 1,500 linear feet of Outfall Restoration BMP. DC did not include Outfall Restoration efforts in the Phase III WIP 2025 implementation scenario since it is not yet a fully credited BMP. Phase III WIP Page 106.</p>	DOEE	<p><b>Ongoing:</b> DOEE has readjusted this milestone. DOEE is working on several large EAs (Pinehurst, Stickfoot, Fort Dupont, and Oxon Run) all of which have outfalls. Rather than do two large EAs (one for Rock Creek and one for Parks East) DOEE is working on design build contracts for outfall areas where the National Park Service is allowing DOEE to do the work as a categorical exclusion (CATEX). This allows DOEE to complete restoration of these areas first and then once the aforementioned EAs are complete DOEE and NPS will take a look at outfall areas that remain to determine how to proceed in those areas.</p>

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Target Date	Milestone & Description	Agency	Update
31-Dec-21	<p><b>Milestone:</b> Numeric: Implement 44 acres of Urban Tree Planting BMP as progress toward District goal of 40% Urban Tree Canopy by 2032.</p> <p><b>Description:</b> The District has developed an urban canopy plan as a roadmap towards this goal. The MS4 Permit sets a 5-year goal to plant 33,525 trees in the MS4 area. In 2019, RiverSmart Homes eliminated copayments for trees, making them free to property owners to increase implementation. Phase III WIP Pages 87 &amp; 106.</p>	DOEE	<p><b>On track:</b> In Program year 2020, DOEE, DDOT, and partners planted a net 13,653 trees District-wide and a net 8,918 trees in the MS4 area, as reported to EPA, meeting/exceeding planting goals. The District is on track to meet program year 2021 goals. A new tree planting RFA was issued in August, and a new grant awarded in November. Additionally, DDOT committed funds increased from \$500k annually in FY19 to \$650k annually in FY20 and FY21.</p>
31-Dec-21	<p><b>Milestone:</b> Target watersheds around stream restoration projects for RiverSmart incentive programs and complete approximately 1,000 audits annually.</p> <p><b>Description:</b> The District has an aggressive stream restoration program. As a part of stream restoration projects, DOEE does targeted outreach to properties in the subwatersheds to encourage voluntary stormwater retrofits through incentives and rebates. Encouraging property owners to undertake stormwater retrofits on their land aids in community buy-in and responsibility for the District's stream restoration efforts. The District will engage residents in this manner around the Branch Avenue Park and Park Drive restoration projects. Phase III WIP Pages 106 &amp; 112.</p>	DOEE	<p><b>Ongoing:</b> RiverSmart Homes audited 906 homes between January 1, 2020 and December 31, 2020. Due to the COVID-19 public health emergency, the program was paused from April 1 to May 30. During this time the RiverSmart Homes team pivoted to a virtual format. In addition, capacity of the RiverSmart Homes staff was reduced by 66% for 120 days as 4 of the 6 auditors were called to support other District agencies to help with the city's response to COVID-19.</p>

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Target Date	Milestone & Description	Agency	Update
31-Dec-21	<p><b>Milestone:</b> Retrofit parks and schools for upland Low Impact Development (LID) projects.</p> <p><b>Description:</b> Target parks and school parcels for stormwater retrofits because they are cost-effective and good sites for educating the public. DOEE is working with the Department of Parks and Recreation (DPR) to install LID projects at five DPR recreation centers/parks. Additionally, DOEE is also working with public, private, and charter schools to retrofit six schools with LID projects while training teachers on using the sites to educate students. Phase III WIP Page 111.</p>	DOEE	<p><b>On Track:</b> DOEE coordinated the design and construction of low impact development (LID) retrofits at ten project sites, including five DC Public and Charter School facilities and five Department of Parks and Recreation facilities. The school sites are Friendship Tech Prep Public Charter High School, Turner Elementary, Cleveland Elementary, Burroughs Education Campus, and EW Stokes Public Charter Elementary. The five Parkland sites include Amidon Field, Congress Heights Recreation Center, Palisades Recreation Center, Fort Greble Park, and Douglass Recreation Center. One more site is currently under construction (Benning Park) and an additional site is in permitting (Fort Stevens Recreation Center).</p>
31-Dec-20	<p><b>Milestone:</b> Develop Critical Area Regulations that address living shorelines, floodplain management, wetlands and wildlife.</p> <p><b>Description:</b> Under the Fisheries and Wildlife Omnibus Bill, DOEE is required to develop regulations for critical areas, defined as areas containing species of local importance, wetlands, frequently flooded areas, fish and wildlife habitat conservation areas, and critical aquifer recharge areas. The development of these regulations will happen in stages. DOEE will seek feedback on the draft wetland and stream regulations and publish a rulemaking for this first chapter of critical areas regulations. Phase III WIP Page 127.</p>	DOEE	<p><b>On Track:</b> DOEE published an emergency rulemaking on October 16, 2020 that included Title 21 DCMR Chapter 25 – Critical Areas and Chapter 26 – Wetlands and Streams, the first chapter of critical areas regulations. The public comment period ended December 16, 2020, and the emergency rulemaking will expire 120 days after publication. DOEE is preparing a second emergency rulemaking to ensure no lapse in regulatory protection for wetlands and streams while DOEE revises the proposed rulemaking in response to comments received and for finalization.</p>

## District of Columbia 2020–2021 Programmatic Water Quality Milestones: Update

Target Date	Milestone & Description	Agency	Update
31-Dec-21	<p><b>Milestone:</b> Initiate a Natural Resource Damage Assessment (NRDA) for the Anacostia River.</p> <p><b>Description:</b> Work with Federal, Maryland, and District trustees to initiate a NRDA that is required under the Federal Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) and the District of Columbia Brownfield Revitalization Act. This NRDA will determine the damages caused by contamination and resources necessary for restoration of the Anacostia River as agreed upon by NRDA trustees. Phase III WIP Page 126.</p>	DOEE	<p><b>On Track:</b> The NRDA for the Anacostia River has been initiated.</p> <p>Monthly Trustee and Technical Working group meetings commenced in March 2020. The Trustees for the Anacostia River are in place and include: (1) the US Department of the Interior (DOI), represented by National Park Service (NPS) and US Fish and Wildlife Service (USFWS); (2) the National Oceanic and Atmospheric Administration (NOAA); and (3) the District of Columbia represented by DOEE. A Draft Memorandum of Agreement is set to be finalized in January 2021 that establishes the Trustee Council and outlines its roles and responsibilities. A Pre- Assessment Screen (PAS) is being prepared by USFWS. The PAS determines if a NRDA should proceed. Additionally, DOI will hold a 2-day NRDAR (Natural Resource Damage Assessment and Restoration) training for Anacostia NRDA participants and others on January 13 and 14, 2021.</p>

## District of Columbia 2020–2021 Programmatic Water Quality Milestones: Update

Target Date	Milestone & Description	Agency	Update
Outreach and Engagement Strategies			
31-Dec-21	<p><b>Milestone:</b> Refine the Community Stormwater Solutions Grant program to engage with new partners.</p> <p><b>Description:</b> Partner with the Chesapeake Bay Trust to evaluate, refine, and administer the Community Stormwater Solutions Grant Program in order to better support the efforts of District-based small businesses, nonprofits, faith-based organizations, and educational institutions to protect and enhance the District's water bodies and watersheds, and support the District's emerging green economy, environmental start-ups, and social entrepreneurs. Provide capacity-building initiatives like grant writing and management trainings with a focus on equity and inclusion to increase the diversity of grant applicants and increase the District's reach with traditionally under-represented community groups. Phase III WIP Page 120.</p>	DOEE	<p><b>On Track:</b> In December 2019, DOEE awarded a \$400,000 grant to the Chesapeake Bay Trust to evaluate, refine, and administer the Community Stormwater Solutions Grant Program. The Trust issued a Request for Applications in winter of 2020. The Trust received 40 applications totaling \$1.1 million and awarded 16 grants totaling \$295,000. As part of the application process, the Trust worked with applicants to improve their grant writing skills. The Trust also partnered with two organizations based in Wards 7 and 8 to strengthen outreach to community-based organizations. DOEE attributes these efforts, in part, to 56% of the awarded grants going to organizations that were first time recipients.</p>
31-Dec-21	<p><b>Milestone:</b> Create Story Maps of current projects and programs.</p> <p><b>Description:</b> Develop GIS Story Maps to showcase progress under the MS4 program, State Revolving Fund, and water quality monitoring. Phase III WIP Page 85.</p>	DOEE	<p><b>On Track:</b> DOEE developed a Story Map for the 2020 MS4 Report found on DOEE's website here: <a href="https://doee.dc.gov/publication/ms4-discharge-monitoring-and-annual-reports">https://doee.dc.gov/publication/ms4-discharge-monitoring-and-annual-reports</a>.</p>

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Target Date	Milestone & Description	Agency	Update
31-Dec-21	<p><b>Milestone:</b> Implement strategies to engage residents in underrepresented communities and encourage participation in the RiverSmart Homes program.</p> <p><b>Description:</b> After receiving recommendations from a marketing contractor and a grantee on strategies for broadening RiverSmart's reach, DOEE will work to ensure that the RiverSmart Homes program is implemented equitably. Specifically, targeted engagement and outreach strategies will be utilized to reach more residents in Wards 7 and 8. Phase III WIP Page 113.</p>	DOEE	<p><b>Ongoing:</b> The report from the marketing contractor is being reviewed for alignment and adjustments based on new protocol and operations given the constraints of the COVID-19 public health emergency.</p> <p>Due to COVID-19, the scheduled Spring 2020 walking tours of RiverSmart Homes in Wards 7 and 8 were postponed. The RiverSmart Team is currently planning for a Spring 2021 virtual "walking" tour to be conducted in targeted areas in Wards 7 and 8.</p> <p>The RiverSmart Homes team also held a series of conversation with partners and the Watershed Protection Division's Diversity, Equity, Inclusion, and Justice working group to discuss strategies, including prioritization and feasibility for implementation.</p>

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31-Dec-21	<p><b>Milestone:</b> Develop comprehensive outreach campaign to increase support for green infrastructure.</p> <p><b>Description:</b> Develop targeted outreach materials for voluntary stormwater retrofit, wildlife restoration, pollution prevention, outreach, and education programs. The campaign goal is to increase awareness of co-benefits and participation in DOEE programs. Additionally, DOEE will work with sister agencies to draft common signage for stormwater retrofit projects to further engage and educate residents and maintenance personnel. DOEE will utilize the WIP Action Team Co-Benefit Fact Sheets to inform potential outreach materials for this work. Phase III WIP Page 94.</p>	DOEE	<p><b>Ongoing:</b> DOEE worked with a contractor to develop the base of an outreach campaign for DOEE's stormwater, wildlife, pollution prevention and environmental education campaigns. The contractor's work provided DOEE with target audiences and best approaches for reaching these audiences. DOEE is evaluating options for developing corresponding outreach materials.</p> <p>DOEE has developed draft signage for stormwater BMPs and is working with sister agencies responsible for BMP installation and maintenance on developing guidance for sign installation.</p>

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Target Date	Milestone & Description	Agency	Update
31-Mar-21	<p><b>Milestone:</b> Enhance Watershed Stewards Academy to enhance diversity, equity, and inclusion.</p> <p><b>Description:</b> Incorporate equitable outreach and engagement plans that build relationships and recruit District residents from historically under-represented communities in Wards 7 and 8 as potential Stewards. The program will also work to provide alumni engagement and networking opportunities to current stewards to increase their networks. Phase III WIP Page 63.</p>	DOEE	<p><b>On Track:</b> DOEE assisted the grantee, Anacostia Watershed Society, in creating and implementing equitable engagement strategies to better recruit Stewards from Ward 7 and 8. Strategies included attendance and tabling at specific affinity group gatherings such as the Taking Nature Black conference organized by Audubon Naturalist Society. DOEE also supported targeted outreach and deepened relationships with local communities by participating in ANC meetings and distributing flyers in grocery stores, recreation centers, and libraries throughout Wards 7 and 8. The program strengthened alumni engagement strategies through the establishment of a Google Group, where alumni can network and receive updates on various projects from current stewards. Additionally, alumni receive a monthly email newsletter with updates about funding opportunities, continuing education sessions, relevant webinars, and volunteer opportunities locally and throughout the region.</p>

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31-Dec-21	<p><b>Milestone:</b> Convene 4 semiannual watershed partner meetings.</p> <p><b>Description:</b> Convene semiannual meetings with watershed stakeholders to discuss programs and opportunities available to help support the District's clean water goals as a continuation of the Chesapeake Partner Advisory Group. Phase III WIP Page 63.</p>	DOEE	<p><b>On Track:</b> DOEE convened the Watershed Partners Meeting on February 19, 2020 in person and on September 14, 2020 virtually. The February meeting covered briefings on the Anacostia River Sediment Project and updates to the Stormwater Retention Credit Trading Program, as well as agency updates and opportunities for attendees to break-out into small groups to discuss challenges and opportunities for collaboration. More than 45 participants joined this session. The September meeting was held virtually and focused on the impacts of COVID-19 on watershed partners. Participants joined facilitated sessions to discuss with their peers the challenges and lessons learned due to COVID-19. Over 60 participated joined this session.</p>
31-Dec-21	<p><b>Milestone:</b> Convene annual restoration contractor vendor forum.</p> <p><b>Description:</b> Bring together landscape and restoration contractors and vendors involved in Environmental Assessments (EA), design and/or construction of Low Impact Development (LID), and/or Stream Restoration practices. The forum will act as an information exchange on best practices for contracting for environmental restoration projects in the District. Phase III WIP Page 63.</p>	DOEE	<p><b>On Track:</b> DOEE hosted its second annual Watershed Restoration Vendor Forum on October 22, 2020. 40 representatives from various environmental restoration firms attended the virtual event.</p>

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31-Dec-21	<p><b>Milestone:</b> Facilitate outreach to the development community for compliance assistance programs that improve water quality outcomes.</p> <p><b>Description:</b> Conduct outreach to the building industry to encourage participation in off-site stormwater regulation compliance opportunities through the SRC Program and to increase awareness of the Self-Inspection Self-Reporting (SISR) program. Phase III WIP Page 137 &amp; FY19 WIP Assistance Funding.</p>	DOEE	<p><b>On Track:</b> DOEE issued a request for applications to identify a grantee to develop an outreach and engagement strategy to increase building industry participation the SRC and SISR programs. DOEE received six applications, has completed evaluations, and anticipates issuing an award in early 2021.</p>
Tracking, Reporting, and Monitoring			
31-Dec-21	<p><b>Milestone:</b> Make progress to develop an interface between Stormwater Database and District Department of Transportation (DDOT) Tree Database.</p> <p><b>Description:</b> Begin developing a database interfaces that will allow DOEE to pull relevant information on tree planting on DDOT-owned land into the Stormwater Database to assist in program implementation and reporting. Phase III WIP Page 133.</p>	DOEE	<p><b>Ongoing:</b> DOEE anticipates working with its technical services contractor Karder to develop integration between the Surface and Groundwater System (formerly Stormwater Database) and the publicly available DDOT tree database during 2021.</p>
31-Dec-21	<p><b>Milestone:</b> Implement Stormwater Database Verification Program.</p> <p><b>Description:</b> Continue to utilize and refine the Stormwater Database to track and target verification of projects around the District. Phase III WIP Page 133.</p>	DOEE	<p><b>On Track:</b> DOEE has continued to use the Surface and Groundwater System (formerly Stormwater Database) to track and verify BMPs across the District and to prioritize maintenance inspections.</p>

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31-Dec-21	<p><b>Milestone:</b> Implement District's BMP verification program.</p> <p><b>Description:</b> Implement District's BMP verification program, including the recently updated Quality Assurance Program Plans (QAPPs) to reflect current verification practices. Changes to verification program include new procedure for submitting wastewater data from permitted facility to EPA NPDES databases to CBP Point Source App. Phase III WIP Page 134.</p>	DOEE/ DC Water/ EPA	<p><b>On Track:</b> DOEE continues to follow the updated Quality Assurance Program Plans (QAPP) to reflect current verification practices for BMPs. DOEE worked directly with DC Water to support the submission of wastewater data to the CBP Point Source app for the 2020 Progress Submission.</p>
31-Dec-21	<p><b>Milestone:</b> Utilize monitoring data.</p> <p><b>Description:</b> DOEE will consider USGS stations, citizen science, and other local monitoring data when evaluating sources of pollution and priorities for BMP implementation. Phase III WIP Page 129.</p>	DOEE	<p><b>On Track:</b> DOEE continues to review and consider USGS monitoring data provided for District waterways and continues active membership in the Integrated Monitoring Networks Workgroup.</p>
Federal Facilities			
31-Dec-21	<p><b>Milestone:</b> Engage major landholding agencies within the District to continue progress towards Phase III WIP strategies and targets.</p> <p><b>Description:</b> Work with federal facilities to make progress towards programmatic and numeric pollution reduction goals included in the District's Phase III WIP. Phase III WIP Page 60.</p>	DOEE	<p><b>On Track:</b> DOEE continues to work with federal agencies to make progress towards Phase III WIP Goals. DOEE coordinated directly with the Department of Defense, National Park Service, and Agricultural Research Service in support of the goals. DOEE now chairs the Federal Facility Workgroup. DOEE continues to request support from EPA in urging federal facilities to continue to support Phase III WIP goals.</p>

## District of Columbia 2020–2021 Programmatic Water Quality Milestones: Update

Target Date	Milestone & Description	Agency	Update
31-Dec-21	<p><b>Milestone:</b> Work with federal agencies to acquire and report BMP implementation information.</p> <p><b>Description:</b> Incorporate federal data into District's annual implementation progress data submissions as outlined in federal agency stormwater management MOU. Phase III WIP Page 135.</p>	DOEE	<p><b>On Track:</b> DOEE provided templates for federal agencies to submit implementation data in June 2020. DOEE received BMP information from Department of Defense and the National Park Service. DOEE is also coordinating with federal agencies through the Federal Facility Workgroup in coordination with the EPA's Federal Progress Evaluation contract to determine discrepancies in internal agency BMP data and the data reported to DOEE during the annual data call.</p>
31-Dec-21	<p><b>Milestone:</b> Work with federal agencies and EPA contractors to reconcile Stormwater Database practices with Federal BMP records.</p> <p><b>Description:</b> As part of the EPA and DoD BMP Progress submission contract, DOEE will work with federal agencies, contractors, and the Federal Facility Workgroup to ensure that regulated and voluntary BMPs on Federal Land in the District are correctly submitted and credited as part of the annual Progress Submission process. Phase III WIP Page 135.</p>	DOEE	<p><b>On Track:</b> DOEE continues to work with federal agencies to reconcile Surface and Groundwater System (formerly Stormwater Database) practices with Federal BMP records. DOEE has been in touch with Department of Defense (DoD), National Park Service (NPS), and Agricultural Research Service (ARS) on BMP submission efforts for the 2020 progress submission. DOEE expects to receive BMP audits from DoD and NPS to evaluate where discrepancies may exist. DOEE continues to request that EPA encourage all federal agencies to provide BMP data and to internally audit their BMP records to ensure submissions are accurate and complete.</p>

## District of Columbia 2020–2021 Programmatic Water Quality Milestones: Update

Target Date	Milestone & Description	Agency	Update
31-Dec-21	<p><b>Milestone:</b> Work with federal agencies and the Chesapeake Bay Program to rectify land use errors in the Federal Facility GIS Data Layer.</p> <p><b>Description:</b> Connect with federal facilities and CBP in regards to errors in the Federal Facility GIS Land Use Data Layer. Work via the Federal Facility Workgroup to document errors for updates within CBP data sets. Phase III WIP Page 53 and EPA Phase III WIP Evaluations.</p>	DOEE	<p><b>Ongoing:</b> Through the Federal Facility Workgroup (FFWG), DOEE has worked to include a GIS Data Layer review as part of the group's workplan. The expectation is for FFWG leadership to discuss review of the Federal Data layer with EPA GIS representatives in the first quarter of 2021.</p>

## District of Columbia 2020–2021 Programmatic Water Quality Milestones: Update

Target Date	Milestone & Description	Agency	Update
<b>WASTEWATER</b>			
31-Dec-21	<p><b>Milestone:</b> Continue progress on Northeast Boundary Tunnel Constriction.</p> <p><b>Description:</b> Continue construction of the Northeast Boundary Tunnel with an anticipated place in operation date in 2023, ahead of the March 23, 2025 Consent Decree deadline. Phase III WIP Page 42.</p>	DC Water	<p><b>On Track:</b> Northeast Boundary Tunnel construction continued in calendar year 2020 and was not significantly adversely impacted due to the COVID-19 public health emergency. As of Dec 2020, mining of the tunnel was more than 81% complete with an anticipated place in operation date in 2023.</p>
31-Dec-21	<p><b>Milestone:</b> Complete post-construction monitoring and submit practicability determination to EPA for first Green Infrastructure (GI) projects.</p> <p><b>Description:</b> Complete post-construction monitoring and submit practicability determination to EPA for first Green Infrastructure (GI) projects in Potomac and Rock Creek in accordance with Consent Decree deadlines. Phase III WIP Page 41.</p>	DC Water	<p><b>Complete:</b> Post construction monitoring was completed for both projects. The Green Infrastructure Practicability Assessments for Rock Creek and the Potomac were submitted to EPA on June 12, 2020 and August 13, 2020, respectively.</p>
31-Dec-21	<p><b>Milestone:</b> Advance planning and design of Potomac River Tunnel.</p> <p><b>Description:</b> Award a contract for design of Potomac River Tunnel by July 1, 2021 per Consent Decree requirements. Phase III WIP Page 41.</p>	DC Water	<p><b>Complete:</b> Contract for design of Potomac River Tunnel was awarded on October 19, 2019.</p>

## District of Columbia 2020–2021 Programmatic Water Quality Milestones: Update

Target Date	Milestone & Description	Agency	Update
30-Dec-21	<p><b>Milestone:</b> Report Blue Plains wastewater and combined sewer system data to the Chesapeake Bay Program (CBP) for required annual reporting.</p> <p><b>Description:</b> For progress reporting purposes, update process for reporting fully QA/QC'd wastewater data from DC Water's Blue Plains Advanced Wastewater Treatment Plant to EPA NPDES databases and to CBP Point Source online application. Phase III WIP Page 130.</p>	DC Water / DOEE	<p><b>On Track:</b> DOEE and DC Water submitted QA/QC'd wastewater data to CBP's Point Source online application for the 2020 Progress Submission before the December 1, 2020 deadline.</p>
31-Dec-21	<p><b>Milestone:</b> Update flow projections for the Blue Plains Wastewater Treatment Plant Service Area.</p> <p><b>Description:</b> Update the Regional Wastewater Flow Forecast Model of the Blue Plains Service Area through 2050 with data from Version 9.2 of the Cooperative Forecasting Analysis. This effort is led by the Metropolitan Washington Council of Governments (MWWCOG) with DC Water, the District of Columbia, and the other jurisdictions within the Blue Plains Service Area. Phase III WIP Page 57.</p>	MWWCOG / DC Water / Office of the City Administrator or	<p><b>On Track:</b> Draft flow projections have been prepared and are being reviewed and refined by the service area.</p> <p>Note that the Version number of the flow forecast is 9.1 rather than 9.2 as stated in the Milestone &amp; Description.</p>

## District of Columbia 2020–2021 Programmatic Water Quality Milestones: Update

Target Date	Milestone & Description	Agency	Update
CLIMATE CHANGE/RESILIENCE			
31-Dec-21	<p><b>Milestone:</b> Evaluate floodplain regulations.</p> <p><b>Description:</b> Explore revision of floodplain regulations to increase the District's resiliency and better prepare the District for climate changes and begin rulemaking process. Phase III WIP Page 140.</p>	DOEE	<p><b>On Track:</b> In 2020, DOEE began the process of drafting updates to the Flood Hazard Rules, which regulate floodplain development in conjunction with the Construction Codes. This ongoing process includes stakeholder engagement and benefit-cost analysis. Additionally, last year the District completed the rulemaking process for a construction code update that added Appendix G (Flood-Resistant Construction) to the District's Construction Codes in accordance with FEMA recommendations. The updated codes also increased the Design Flood Elevation from the Base Flood Elevation plus 1.5 feet of freeboard to either the 500-year flood elevation or the Base Flood Elevation plus 2 feet of freeboard, whichever is higher. This increases the District's resiliency and better prepares the District for climate change.</p>

## District of Columbia 2020–2021 Programmatic Water Quality Milestones: Update

Target Date	Milestone & Description	Agency	Update
31-Dec-21	<p><b>Milestone:</b> Evaluate District's stormwater performance standards.</p> <p><b>Description:</b> Assess stormwater performance standards established by District's stormwater regulations based in part on future precipitation forecasts. Phase III WIP Page 140.</p>	DOEE	<p><b>Ongoing:</b> DOEE has reviewed its performance standards in the context of the future projected storms resulting from climate change and has identified the current 15-year peak discharge requirement as needing further evaluation. Generally, the District's storm sewer conveyance system is designed to manage the runoff from a 15-year storm, meaning larger storms would typically result in flooding. By 2080, the current 100-year storm is projected to be the 15-year storm, meaning that street flooding will likely occur on a more frequent basis. A regulatory change to the 15-year peak discharge requirement may help better prepare the District for these larger storms and help reduce the flooding that might otherwise occur. In order to determine the appropriate change to propose, it is important to understand what the intensity and duration of future storms will be. To support this, DOEE is currently participating in a Chesapeake Bay Program Workgroup that is working on new Intensity Duration Frequency (IDF) curves for the Chesapeake Bay region.</p>

## District of Columbia 2020–2021 Programmatic Water Quality Milestones: Update

Target Date	Milestone & Description	Agency	Update
31-Dec-21	<p><b>Milestone:</b> Develop Climate Resilient Design Guidelines.</p> <p><b>Description:</b> Develop climate resilient design guidelines outlining how to incorporate future climate projections that include more frequent precipitation and flooding events into building and site-level design. Phase III WIP Page 142.</p>	DOEE	<p><b>Ongoing:</b> Using recommendations from the Chesapeake Bay Urban Stormwater Workgroup as well as DOEE's internal evaluation, DOEE is reviewing stormwater BMP design guidelines to address projected storm size increases. DOEE intends to incorporate these design changes in the next edition of the Stormwater Management Guidebook. The revision process will begin in 2021.</p>
31-Dec-21	<p><b>Milestone:</b> Develop comprehensive heat strategy.</p> <p><b>Description:</b> Develop a strategy outlining opportunities to reduce the urban heat island and protect residents from the impacts of extreme heat. Identify communities most at risk from heat using both exposure and sensitivity indicators to determine how efforts like green infrastructure projects and increased tree canopy cover can improve community conditions. Phase III WIP Page 142.</p>	DOEE	<p><b>On track:</b> DOEE has finished mapping to assess which parts of the District are most exposed and sensitive to heat. DOEE has also completed a community survey assessing heat needs and detailed focus groups among populations disproportionately impacted by heat. Next steps will involve drafting policy recommendations, a final round of community engagement and the release of the strategy.</p>