

**"Jurisdiction" Restore Clean Water Action Items**

**January 1, 2024 – December 31, 2025 Jurisdiction Programmatic Two-Year Milestones**

January 1, 2024 – December 31, 2025, Department of Defense Programmatic Two-Year Water Quality Milestones  
Including Climate Milestones

<b>Target Date</b>	<b>Milestone (Federal Agency reference)*</b>	<b>Deliverable</b>	<b>Lead Agency</b>	<b>Comments/Status Updates</b>
<b>DoD Chesapeake Bay Program - Programmatic Milestones</b>				
2024/2025	Continue to meet with EPA and the District of Columbia Department of Energy and Environment (DC DOEE) to reconcile BMP datasets, improve BMP crediting in CAST, and address any remaining equity issues.	Interim and final report to EPA on Milestone Progress	EPA	Continuing to meet with DOEE to rectify our two databases. According to the DoD CBP's unique Crediting Reports, the number of DoD BMPs credited improved by 13% from FY2022 (34.1%) to FY2023 (47%). The improvement in crediting compared to FY22 is largely attributed to reconciliation efforts between DOEE and DoD records. Additional crediting is expected in upcoming years with ongoing BMP data reconciliation extending to more installations.
2024/2025	By 1 October, annually, report BMP implementation progress to EPA and the Bay jurisdictions.	Email data spreadsheets to EPA and the jurisdictions	DoD	FY24 BMP data was submitted in full and on time.
2024/2025	Given available funding, continue to develop BMP Crediting Reports in VA, MD, DC, and PA. Provide the reports to DoD installations and jurisdictions to	Email data spreadsheets to EPA and the jurisdictions	DoD	In FY24, the Credit Reports for FY2023 were completed for VA, MD, DC and PA and were provided to both the jurisdictions and EPA.

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	identify opportunities to maximize TMDL credit in CAST.			FY25 includes funds to complete Crediting Reports for FY24.
2024/2025	Given available funding, conduct DoD CB TMDL Progress Evaluations in VA, MD, DC, and PA.	For internal communication, program evaluation, and improvement	DoD	In FY24, the FY23 Progress Evaluation was completed with recommendations and action items for use in internal program evaluation and improvement. FY25 includes funds to complete the Progress Evaluation for FY24.
2024/2025	Participate in the Federal Facilities Workgroup to enhance collaborative efforts within the Chesapeake Bay Program Partnership, including understanding the role of USACE loads and BMPs on DoD TMDL Progress.	N/A	CBP Partnership	Participation in the FFWG is ongoing. Continuing to work with USACE and the EPA and expect for this to be accomplished with the Phase 7 model.  Working with jurisdictions to facilitate the tracking, reporting, and TMDL-crediting of purchased nutrient credits.
2024/2025	Support Middle Chesapeake (MD), Tidewater and Potomac (VA), and Kittatinny Ridge (PA) Sentinel Landscapes to implement off-base projects that provide for water quality improvements in support of jurisdiction WIPs. Implemented projects will be reported in the updates.		DoD	Participated in meetings with the new VA Sentinel Landscape Coordinator to talk about how to collaborate on future projects with DoD.  To share success stories, to broaden awareness, and facilitate projects within Sentinel Landscapes a designated roundtable discussion was integrated within e internal quarterly DoD CBP Chesapeake Bay Action Team meetings. Sentinel Landscape Coordinators will provide the DoD CBP with information

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				<p>about installation initiatives and lessons learned to inspire additional future projects within the Sentinel Landscapes.</p> <p>The DoD CBP worked with the Commonwealth of Pennsylvania to achieve designation of the Kittatinny Ridge Sentinel Landscape. The Sentinel Landscape supports 4 military installations representing every branch of the U.S. Armed Forces. Specifically, the Kittatinny Ridge Sentinel Landscape is anchored by Fort Indiantown Gap. A decision was made to designate the Sentinel Landscape on May 15, 2024. A coordinator for the Sentinel Landscape is anticipated to be hired early 2025.</p> <p>A kick-off meeting was held for the Virginia Security Corridor Sentinel Landscape on November 17, 2024, and Kevin Du Bois, DoD CBP Coordinator was subsequently asked to serve on the Steering Committee for Virginia's Tidewater Sentinel Landscape.</p>

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2024/2025	Educate installation on new BMPs and retrofits that can increase pollutant removal effectiveness		DoD	A presentation focused on pollutant removal was the topic of the January 2024 CBAT - <i>Coagulant Enhanced Stormwater Treatment (CET) for Use in the Chesapeake Bay Watershed</i>
2024/2025	Educate installations on the impacts of microplastics and their impacts on 2014 CB Watershed Agreement goals and outcomes. Encourage installation cleanup activities to reduce plastic pollution.		DoD	<p>Published an article on the <i>Impacts of Microplastics Pollution on Chesapeake Bay Watershed Agreement Goals and Outcomes</i> in the Spring 2024 DoD CBP Journal.</p> <p>Most of the plastic that ends up in marine and estuarine waters comes from land-based sources, e.g., littering and poor waste management practices, and is often conveyed by stormwater. To actualize trying to reduce plastics and get the installations more involved in the clean-ups, the Commanding Officer Clean-up Challenge was created. The challenge ran from April 2024 – June 2024, collected clean-up information from installations in the watershed. Installations in Virginia, Maryland, and the District of Columbia – including 780 volunteers from across all Services – collectively cleaned approximately 24.4 miles of land and water. They removed 17,064 pounds of trash and debris, keeping it from</p>

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				polluting the Bay and harming its abundant fish and wildlife. Fort Gregg-Adams was the winner for collecting the most trash (4,332 lbs) and Joint Expeditionary Base Little Creek -Fort Story was the winner for collecting the most pounds of trash per participant (1,520 lbs. for an average of 138 lbs. per participant)
<b>DoD Chesapeake Bay Program - Programmatic Milestones Related to Climate Impacts on BMP Performance</b>				
2024/2025	Report on Readiness and Environmental Protection Integration (REPI), REPI Challenge, and Sentinel Landscape Projects that include water quality co-benefits.	Annual reports to the EPA as part of Chesapeake Bay Program Partnership's Climate Directive reporting requirements.	DoD	<p>In FY24, 6 installations reported new land conservation projects:                      Aberdeen Proving Ground (Army)                      Fort Indiantown Gap (Army)                      NAS Patuxent River (Navy)                      NAS Patuxent River – Webster Outlying Field (Navy)                      NSA South Potomac – Dahlgren (Navy)                      Joint Base Langley-Eustis (Langley)</p> <p>The two installations highlighted above provided projects with climate resilience co-benefits.</p> <p>We are waiting for updates from the REPI Program to be able to accurately report of the funds spent and acres</p>

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				<p>protected in FY24. By March 2025, we should also be able to report on the funds requested for land protection in FY25.</p> <p>In the first quarter of 2025, VIMS is completing a 22-mile long living shoreline opportunity assessment planning study at Joint Base Langley Eustis – Eustis. It will result in three project designs, including permitting, to form the basis of a request for implementation funding through the Tidewater Sentinel Landscape Partnership.</p> <p>Joint Base Langley Eustis – Langley worked with the Army Corps of Engineers, Engineering With Nature initiative to develop engineering drawings for a project including beach restoration, thin layer placement wetland restoration, and submerged aquatic vegetation restoration around Factory Point in Hampton, Virginia. The project, designed to build the resiliency of the Back River Estuary and Langley Air Force base, just received \$845,000 in funding from the National Fish and</p>

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				<p>Wildlife Foundation, and was matched with another \$142,800 in local funds that will complete design and permitting to prepare for implementation funding requests.</p> <p>Naval Weapons Station Yorktown (NWSY) Penniman Spit Living Shoreline project (previously REPI funded) was completed in in FY25 (October 2024). Over the next two years, VIMS and partners will monitor the project to ensure it meets its objectives and findings will be used to inform future projects and promote environmental education.</p> <p>In 2025, the Navy's Environmental Resiliency and Carbon Sequestrating funding will support a total of nine projects, with over \$1.7 million allocated to initiatives within the Chesapeake Bay region on Department of Defense (DoD) installations. The funded projects will be implemented at six locations, including Naval Weapon Station Yorktown, Naval Air Station Oceana, Naval Medical Center Portsmouth, Naval Support Activity Hampton Roads, Naval Station Norfolk, and Camp Peary. These projects</p>

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				<p>will focus on a range of restoration activities, with an aim to reduce nutrient and sediment pollution in the Chesapeake Bay while also restoring vital habitats, ultimately contributing to the Bay's environmental health and resilience.</p> <p>Some of the specific project highlights include:</p> <ul style="list-style-type: none"> <li>• Reforestation efforts to restore native tree species and promote carbon sequestration</li> <li>• Shoreline restoration to reduce erosion and protect habitats for aquatic species</li> <li>• Stormwater management systems to reduce runoff and improve water quality</li> <li>• Pollinator habitat creation to support the local bee population and promote ecosystem health</li> </ul> <p>In 2025, the Navy has partnered with the US Army Corps of Engineers' Engineering With Nature (EWN) initiative to enhance the resilience of its installations in the face of natural hazards. EWN will provide expert support to Naval Station Norfolk, Naval</p>



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				Air Station Oceana, and Naval Weapons Station Yorktown, focusing on the development and implementation of nature-based solutions (NBS) that can mitigate the impacts of coastal storms, floods, and other environmental challenges. Additionally, EWN will provide training/workshops to Navy installation personnel on the implementation of NBS, highlighting the benefits of these approaches in achieving multiple objectives, including flood and storm risk reduction, environmental sustainability, and ecosystem restoration.
2024/2025	Provide a tally of dollars spent and a list of BMP project types implemented that provide climate resilience co-benefits.	Annual reports to the EPA as part of Chesapeake Bay Program Partnership's Climate Directive reporting requirements.	DoD	<p>In FY24, \$75,908.00 was spent on projects whose primary purpose was to provide for climate resilience.</p> <p>Based on a Tetra-Tech report and DoD CBP best professional judgement, the following stormwater BMPs, natural and nature-based features (NNBF), and conservation projects were considered to provide flood protection/mitigation or other climate resilience co-benefits:</p> <p>(BMP names vary by jurisdiction)</p>

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				Biofiltration Bioretention - Enhanced Bioretention - Standard Bioswale Bio-Swale Channel Bed Stabilization Channel Stabilization Cisterns & Rain Barrels Constructed Wetland Detention Structure (Dry Pond) Disconnection of Non-Rooftop Runoff Disconnection of Rooftop Runoff Dry Detention Ponds Dry Detention Ponds & Hydrodynamic Structures Dry Extended Detention - UDS Dry Extended Detention Ponds Dry Swale Dry Well Dry Wells Enhanced Filters Erosion & Sediment Control Erosion and Sediment Control Level 1 Extended Detention Structure, Dry Extended Detention Structure, Wet Filter Strip Filtering Practices Filtration Floating Treatment Wetland 1

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				Floodplain Restoration Forest Harvesting Practices Forest Stand Improvement Grass Swale Green Roof - Extensive Green Roofs Impervious Surface Disconnection Impervious Surface Elimination (to Forest) Impervious Surface Elimination (to pervious) Infiltration Basin Infiltration Berms Infiltration Practices Infiltration Trench Landscape Infiltration Mechanical Broom Technology - 1 pass/week Mechanical Street Sweeping Microbioretention Micro-Bioretention New Stormwater Treatment Oil Grit Separator Outfall Stabilization Permeable Pavement Permeable Pavement - Standard Permeable Pavements Planting Trees or Forestation on Pervious Urban

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				Pocket Wetland Proprietary Practice - Retrofit Stormwater Treatment Proprietary Stormwater Treatment Device Rain Garden Rain Gardens Rainwater Harvesting Reduction of Impervious Surfaces Regenerative Step Pool Conveyance Regenerative/Vacuum Street Sweeping Reinforced Turf Retention Pond (Wet Pond) Sand Filter Septic Tank Pumpout Shallow Marsh Sheetflow to Conservation Areas Shoreline Management Storm Drain Cleaning Stream Restoration Stream Restoration Urban Street Cleaning Practice 1 Street Cleaning Practice 11 Street Cleaning Practice 2 Street Cleaning Practice 3 Street Cleaning Practice 4 Street Cleaning Practice 6 Street Cleaning Practice 7 Street Sweeping

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				Submerged Gravel Wetlands Tree Planting Tree Planting - Canopy Underground Filter Underground Infiltration System Urban Filter Strip Runoff Reduction Urban Filter Strip Stormwater Treatment Urban Forest Buffer Urban Forest Planting Urban Grass Buffer Urban Infiltration Practices Urban Nutrient Management Urban Nutrient Management Plan Urban Shoreline Management Urban stream restoration Urban Stream Restoration Urban Tree Canopy Planting Vegetated Open Channels Vegetated Treatment Area Wet Extended Detention Wet Pond Wet Pond - Wetland Wet Ponds & Wetlands Wet Ponds and Wetlands Wet Swale Wetland Enhancement Wetland Rehabilitation

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				In FY24, DoD Installations in the watershed spent \$7,203,337.00 on 90 BMP projects with climate resilience co-benefits.
2024/2025	Report on the number and percentage of installations who have updated their Integrated Natural Resource Management Plans to address climate change	Annual reports to the EPA as part of Chesapeake Bay Program Partnership's Climate Directive reporting requirements.	DoD	In FY24, 30 installations reported updating their Integrate Natural Resource Management Plans (INRMP) to address climate change. This represents 81% of the total number of installations that have indicated they have an INRMP. Installations reported 58 un-funded INRMP projects that could provide climate resilience co-benefits.
2024/2025	Report on the incorporation of climate resiliency themes into existing DoD CBP outreach materials (Quarterly Journal articles, factsheets, Annual Progress Report, etc.) to build climate literacy and a climate-informed workforce.	Annual reports to the EPA as part of Chesapeake Bay Program Partnership's Climate Directive reporting requirements.	DoD	The DoD CBP publishes the Chesapeake Bay Program Journal <u>quarterly</u> and it featured the following articles related to climate resilience:  Winter 2024 Journal: <ul style="list-style-type: none"> <li>• Commander's Corner: The DOD Launches its First Ever Climate Resilience Portal</li> <li>• Carbon Sequestration Initiatives at Defense Supply Center Richmond</li> </ul> Spring 2024 Journal:

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				<ul style="list-style-type: none"> <li>• New Proposed Kittatinny Ridge Sentinel Landscape in Pennsylvania</li> </ul> <p>Fall 2024 Journal</p> <ul style="list-style-type: none"> <li>• Conducting BMP Inspection and Maintenance for Protection of Water Quality and Installation Readiness</li> </ul> <p>Journals can be found at:  <a href="https://denix.osd.mil/chesapeake/dod-cbp-quarterly-journals/">https://denix.osd.mil/chesapeake/dod-cbp-quarterly-journals/</a></p> <p>The DoD CBP has published or is in the process of publishing factsheets for installations, including:</p> <p><i>Green Infrastructure and the MS4 Permit</i> – designed to help installations implement green infrastructure solutions and this not only advances air and water quality objectives but also contributes to progress towards natural resources, climate resilience, and carbon sequestration goals.</p> <p>The DoD CBP’s Annual Progress Report (APR) is its most important internal and external outreach tool for explaining the DoD’s program and documenting</p>

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				<p>progress towards DoD's Chesapeake Bay Program Partnership goals and outcomes.</p> <p>The FY2023 APR identifies military installation projects with climate resilience co-benefits in the Chesapeake Bay Program Partnership's management strategy categories of Abundant Life, Conserved Land, Engaged Communities and Water Quality. The APR also highlights collaborative efforts with partners in cooperative community planning, REPI and Sentinel Landscape Program project implementation for climate resilience, and the establishment of DoD CBP climate metrics. Current and past editions of the APR can be found at:  <a href="https://denix.osd.mil/chesapeake/dod-cbp-annual-progress-reports/">https://denix.osd.mil/chesapeake/dod-cbp-annual-progress-reports/</a></p>
2024/2025	Report on the number of new installations and facilities with a DoD Climate Assessment Tool (DCAT) assessment. The DCAT provides a screening-level assessment of an installation's future climate exposure related to eight hazards: coastal flooding, riverine flooding, heat, drought, energy demand, land	Annual reports to the EPA as part of Chesapeake Bay Program Partnership's Climate Directive	DoD	No new installations are reported. Previously reported all 64 military installations in the watershed were provided with a DCAT assessment. This information can be used to guide installation resilience planning including the protection and enhancement of natural and nature-based features



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	degradation, wildfire, and historical extreme weather events.	reporting requirements.		providing climate resilience and carbon sequestration co-benefits
2024/2025	Report on significant collaborative efforts to enhance resilience with a water quality co-benefit (VCRMPF, SERDP research, MIR/CUP planning efforts, CBF Billion Oysters for the Bay, etc.)	Annual reports to the EPA as part of Chesapeake Bay Program Partnership's Climate Directive reporting requirements.	DoD	<p>The DoD continues to collaborate with the Commonwealth of Virginia regarding updates and expansion of their Climate Resilience Master Plan. A Regional Community Planning and Liaison Office representative sits on the Commonwealth's Technical Advisory Committee to represent the Navy.</p> <p>The DoD CBP is working with a SERDP researcher to pilot a model for assigning the value of management of military installations to external, defense community ecosystem services. Reported results from installations in the Chesapeake Bay watershed are expected at the end of two year milestone period.</p> <p>The DoD CBP worked with the Smithsonian Institution to develop a SERDP proposal to conduct research on the establishment of living bulkhead techniques on military installations in the Chesapeake Bay watershed.</p> <p>The DoD CBP and Army Corps of Engineers, Engineering with Nature</p>

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				Initiative developed a toolkit and preliminary design for natural and nature-based projects to address climate resilience at Langley Air Force Base in VA.
2024/2025	Complete a pilot project to report on the carbon sequestration resulting from annual BMP and other conservation project implementation on DoD-managed lands in the Chesapeake Bay watershed.			<p>The scientific literature review and User's Guide are completed. Currently working to refine the calculator functions. This project is anticipated to highlight which BMPs provide the greatest carbon sequestration co-benefit for informed climate/water quality decision-making.</p> <p>The DoD CBP has generated results for all installations in the watershed based on itsFY22 annual datacall information. The DoD CBP is conducting testing for the calculator's capability to provide yearly updates to generated sequestration rates. The project's scientific literature review was shared throughout the CBP Partnership. Assessment of the initial project results was a catalyst to conduct a second novel scientific literature review to understand the relationships between land use/land cover changes to losses of carbon pools and sequestration potential and that literature review is expected to</p>

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				be completed in March of 2025. The project's scientific literature reviews and calculator tools help all users understand environmental co-benefits and strategically select and modify natural and nature-based projects to maximize and maintain carbon sequestration rates.
<b>DoD Chesapeake Bay Program – Numeric Milestones</b>				
2024/2025	Submit 2024-2025 planned BMP implementation in CAST for VA, MD, DC, and PA (Numeric Milestone).	Provide CAST scenario to EPA and listed jurisdictions.	DoD	The two-year Milestone CAST scenario entitled "SY2024-2025 (credited), 2023 datacall" was shared with the EPA (Greg Allen)
* As part of the adaptive management process for achieving water quality goals, jurisdictions may submit programmatic milestones that modify, are in place of, or are in addition to milestones listed in their WIPs so long as the jurisdiction can demonstrate that they will be as effective toward meeting water quality goals.				