

Leveraging Department of Defense Installation Collaboration and External Partnerships

Kevin Du Bois, PWS, PWD, CFM, SCMNRP DoD Chesapeake Bay Program Coordinator







Overview



Meet the Team



Chesapeake Bay Program Partnership



DoD CBP Background & Drivers



Dod Fy22 Contributions to Bay Restoration



Programmtic Accomplishments



Dod CBP Climate Initiatives



DoD Collaboration with Communities

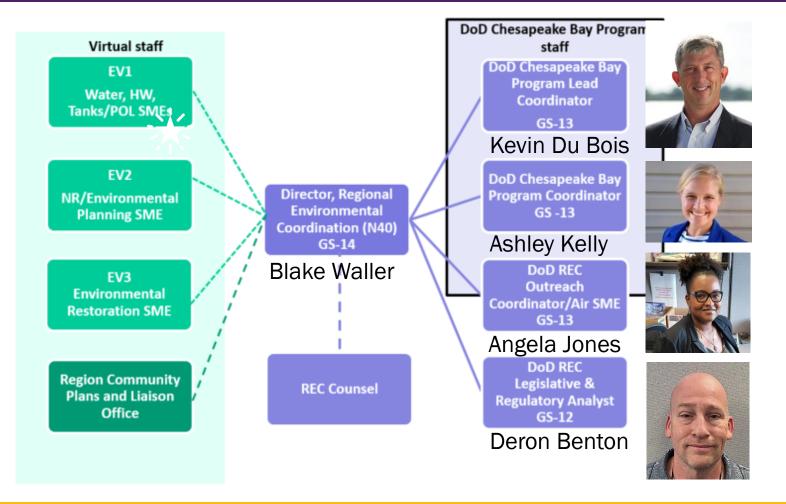








Our Team



Alumni:



Jessica Rodriguez



Sarah Diebel



Adam Wright



Krista Parra









Chesapeake Bay Program Partnership





* We also participate in: Watershed Technical Workgroup, Urban Stormwater Workgroup, BMP Ad Hoc Steering Committee, Wetlands Workgroup



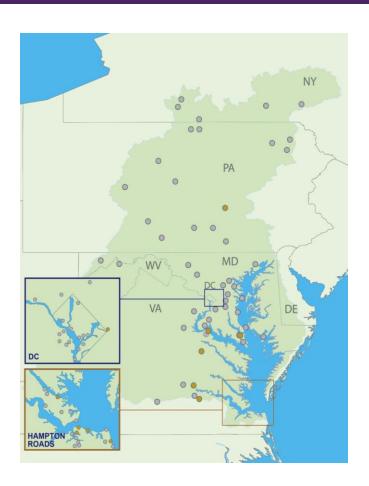






DoD in the Chesapeake Bay Watershed

- DoD Services manage
 - ~ 136 sites
 - ~ 400,000 Acres
 - ~ 1% of the watershed
- DoD is the largest federal owner of developed land
- Dept. of Navy is the Lead Agent
- Commander Navy Region Mid-Atlantic (CNRMA) oversees the program
- Each Service has its own CBP lead
- Drivers:
 - Executive Order 13508 Protecting and Restoring the Chesapeake Bay Watershed
 - 2014 Chesapeake Bay Agreement
 - Executive Order 14008 Tackling the Climate Crisis at Home and Abroad

















DoD Chesapeake Bay Program

The VISION of the DoD Chesapeake Bay Program is to protect the Chesapeake Bay for military readiness, for our community and for future generations





DoD CBP Mission

Integrate

Integrate restoration, pollution prevention, and stewardship initiatives for the Chesapeake Bay into DoD's daily mission of providing the military forces needed to deter war and protect the security of the United States.

Engage

Engage all levels of DoD military, civilians, and their families to be environmental stewards of the watershed where they live.

Partner

Partner with federal, state, and local governments, and organizations and citizen groups to maximize resources and strengthen Bay restoration and protection efforts.





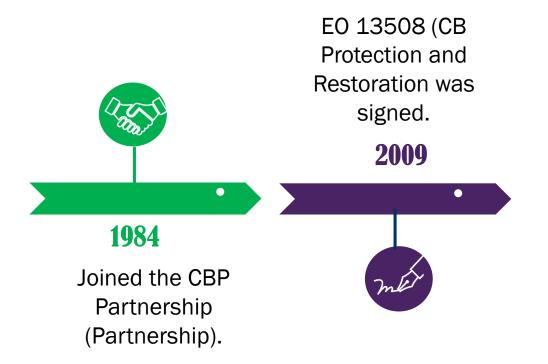












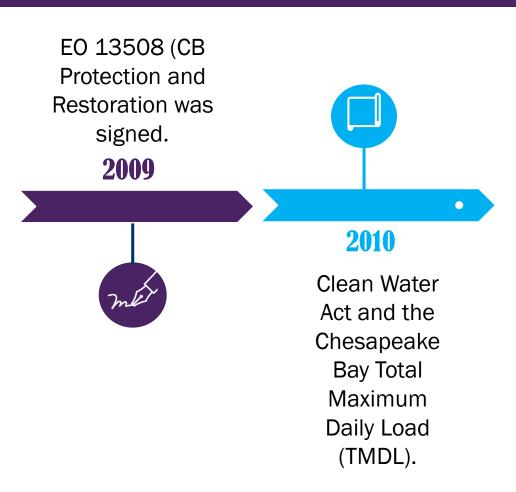
- Restore Clean Water
- Recover Habitat
- Sustain Fish and Wildlife
- Conserve Land and Increase Public Access
- Calls on the federal government to lead by example in restoring the Chesapeake Bay











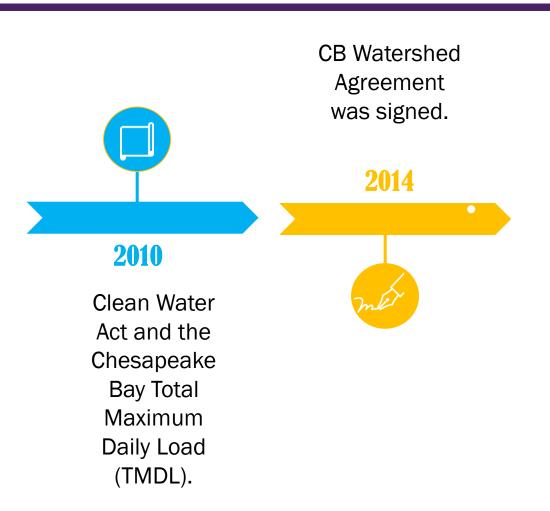
- The Bay TMDL was established by EPA because voluntary actions were insufficient to meet water quality goals
- Targets for pollution reduction are outlined in jurisdiction Watershed Implementation Plans (WIPs) and their Federal Planning Goals











 TMDL water quality goals are embodied in the 2014 Chesapeake Bay Watershed Agreement









EO 14008 (Sec. 201) - to implement a Government-wide approach that reduces climate pollution in every sector of the economy; increases resilience to the impacts of climate change; protects public health; conserves our lands, waters, and biodiversity; delivers environmental justice; and spurs well-paying union jobs and economic growth, especially through innovation, commercialization, and deployment of clean energy technologies and infrastructure.

- Climate Risk Analysis (Sec. 103)
- National Climate Task Force (Sec. 203)
- Climate Action Plans (Sec. 211)
- Advancing Conservation, Agriculture, and Reforestation (Sec. 214)
- Conserving Out Nations Lands and Waters (30 X 30) (Sec. 216)





EO 14057 - Strengthening the Nation's Forests, Communities, and Local Economies

It is the policy of my Administration, in consultation with State, local, Tribal, and territorial governments, as well as the private sector, nonprofit organizations, labor unions, and the scientific community, to pursue science-based, sustainable forest and land management; conserve America's mature and oldgrowth forests on Federal lands; invest in forest health and restoration; support indigenous traditional ecological knowledge and cultural and subsistence practices; honor Tribal treaty rights; and deploy climate-smart forestry practices and other nature-based solutions to improve the resilience of our lands, waters, wildlife, and communities in the face of increasing disturbances and chronic stress arising from climate impacts. It is also the policy of my Administration, as outlined in Conserving and Restoring America the Beautiful, to support collaborative, locally led conservation solutions. •



DoD Contributions to Chesapeake Bay Protection and Restoration

DoD tracks and reports installations and regional efforts to meet:

- Abundant life
- Conserved land
- 3 Engaged communities
- Clean Water

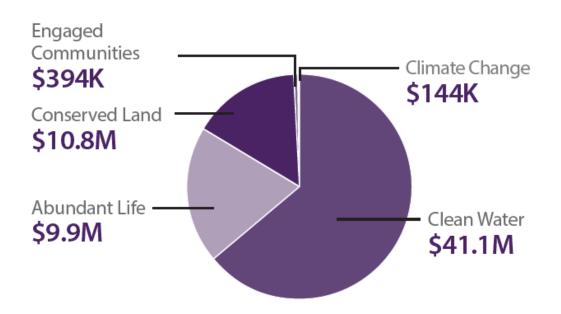
While projects are categorized by these four major outcomes, DoD CBP promotes the implementation of projects that provide other co-benefits including climate resilience

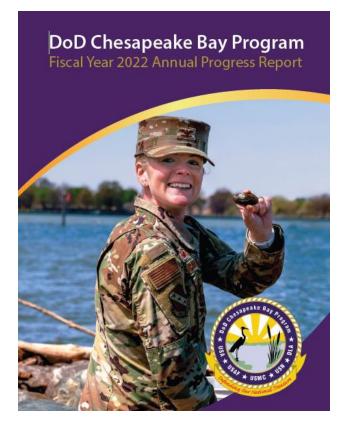


Fiscal Year (FY) 2022 Accomplishments

FY2022 Project Funding

\$62.3M | 285 projects





For more information, see the DoD CBP's FY22 Annual Progress Report at:

https://www.denix.osd.mil/chesapeake/dod-cbp-annual-progress-reports/index.html









Abundant Life



\$9.9M

invested in Abundant Life projects



6,999

additional trees planted at DoD installations



5,182

linear feet of shoreline and streambank restored



4

new oyster projects for reef restoration in waters at and around installations

https://denix.osd.mil/chesapeake/dod-cbp-annual-progress-reports/









Conserved Land



\$10.8M

invested in Conserved Land projects



13

installations have Readiness and Environmental Protection Integration (REPI) partnerships



2,922

additional acres Protected by the REPI program



48,017

cumulative acres protected through the REPI Program









Engaged Communities



\$394K

Invested in Engaged Community projects



385

new citizen stewardship events

2,381

volunteers at citizen stewardship events



205

Total public access sites open to DoD service members, employees and their families



22,496

Pounds of trash picked up during DoD cleanup events









Clean Water



\$41.1M

invested in Clean Water projects



123

New best management practices (BMPs built in State Year 2022



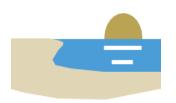
368

new acres of treated impervious surface



5,066

Total BMPs implemented in the Chesapeake Bay watershed



2,237

acres with Urban Nutrient
Management Plans to
reduce pollution discharge



81

BMPs Provide Climate Resilience Co-Benefits









DoD CBP Reporting, Outreach and Education

- DoD Chesapeake Bay Program Annual Datacalls
 - Current FY and two years projected
 - Best management practice (BMP) implementation progress reporting
 - Natural resources and conservation projects
- Executive Order 13508 Two-year Water Quality Milestones
- DoD Chesapeake Bay Program Annual Progress Report
 - At-A-Glance Metrics
 - Highlights noteworthy Installation projects implemented by goal
- DoD Chesapeake Bay Program Journal
 - Highlights Installation success stories
- Chesapeake Bay Program Partnership Climate Directive
- MD Chesapeake Bay Memorandum of Understanding (MOU)
 - Upgrade status of wastewater treatment plants and installation restoration projects
- Installation Fact Sheets
 - metrics and briefing template
- Chesapeake Bay Accountability and Recovery Act (CBARA)



Meet DoD's New Regional Environmental Coordination Office Tean

CBP Metrics for Internal and **External Communications**





















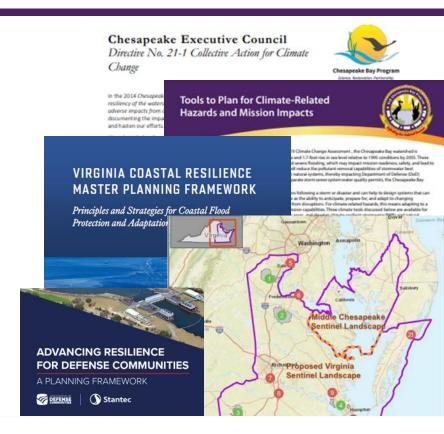






DoD CBP Climate Initiatives

- Water Quality Programmatic Milestones to Address Climate Impacts on BMP Effectiveness
- EO 14008 DoD and Service Climate Adaptation Plan
- CBP Partnership Climate Directive
 - Federal Implementation
- OLDCC CUP & MIR Cooperative Planning
- REPI & Sentinel Landscapes
 - Focus on regional initiatives
- Virginia Coastal Resilience Master Plan
- Outreach Climate Literacy
- Carbon Sequestration Calculator



Success Story: NWS Earle Leads a Regional Approach to Climate Resilience

By Dennis Blazak, Community Planning Liaison Officer, NWS Earle, edited by Brown and Caldwell staff

Virginia Security Corridor















Projects with Co-Benefits Support Mission Assurance

Projects with co-benefits:

- → Help DoD cost-effectively meet multiple objectives.
- → Wise use of limited resources (i.e., staff capacity, land, finances)







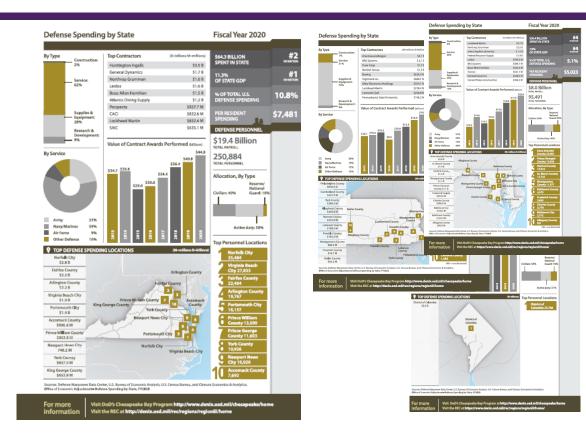






Impact on Local Economies

- Defense Spending by Type
- Defense Spending by Service
- Top Military Contractors
- Value of Contract Awards
 Performed
- Top Defense Spending Locations
- Personnel and Payroll
- Top Personnel Locations



https://oldcc.gov/dsbs-fy2022

Information Source: Defense Manpower Data Center, U.S. Bureau of Economic Analysis, U.S. Census Bureau, and Chmura Economics & Analytics. Office of Economic Adjustment – Defense Spending by State, FY2020









Cooperative Community Planning

The Office of Local Defense Community Cooperation's Installation Resilience program activities presents states and communities with the opportunity to partner with their local installations and the Military Departments to support installation resilience.

Projects may include the following:

- a comprehensive review of natural and man-made threats and vulnerabilities;
- targeted studies or plans concerning, but not limited to, transportation, land use/encroachment, utility services, housing, stormwater management, sewer, and communications; and,
- table-top exercises with local military and civilian (public and private) leadership to review capacities of hard infrastructure and public services to respond to natural and/or man-made disruptions.



Overvie

The Office of Local Defense Community
Cooperation's Installation Resilience program
couldes states and communities to partner with their
local installations and the Military Departments
to collectively, as "one community", respond to
either the enemachment of a civilian community
or threats to installation resilience that are Biday
to impact the confined operational utility of
the military installation. Factors impacting an
installation's resilience, partners impacting an
installation's resiliency may also impact the local
defense industrial bases to these program efforts can
have far reaching benefits for the local mission. This
program also mergas previous installation resilience
and compatible use (formerly the joint Land Use
Study, or [LiO3] dements into one broader program

Program Go

- A cooperative, community-driven planning efforthat leverages the capabilities and strengths of state and local governments to address resilience and encroachment risks:
- Protect and enhances the public health, safety, and general welfare of those living and working near an active military installation, noting that, on average, up to 70 percent of an installation's force resides in the surrounding civilian communities commuting to work on local roads occupying privately-owned heasing, and attending local enhancing facilities.
- Protect and enhance military readiness and defense capabilities while supporting continus community economic development; and.
- Enhance civilian and military communication an collaboration.

Program Activities

Installation Resilience program activities are designed to support the organizing, planning, and implementation actions accessary to index, protect, and enhance the assistankility of our millitary installations (including betting and training ranges, and observed the visiting autod and ratining ranges, and/or millitary visiting mutods and related defines with their local installations as "one community" to identify man-enade or natural threats across the community that ratilialities as "one community that ratilialities as "one community that are likely to impair the continued operational utility of local military installations, and then plan and carry out responses to enhance infrastructure and other resilience measures, as well and made the continued of the continued the federal Emergency Management Approx. It enables a "one community" response through a collaborative Federal, state, local, and private combination of the continued of the

These program activities establish or reinforce an ongoing collaboration between civilian (public and private) and military equities that endures beyond the term of any project. Program activities encourage planeing and collaboration to analyze options for insituation, adopt a stratopy, and implement actions.

Projects may include the following

- a comprehensive review of natural and man-mac threats and vulnerabilities;
- targeted studies or plans concerning, but not limited to, transportation, land use/encreachuser utility services, housing, stormwater managemen sewer, and communications; and,
- table-top exercises with local military and civilian (public and private) leadership to review capacities of hard infrastructure and public services to reasond to natural and/or managed

Contact: Margit Myers
Program Activity Lead
margit.a.myers.civ@mail.mil









Readiness and Environmental Protection Integration (REPI) and REPI Challenge Opportunities

The Department of Defense's (DOD) Readiness and Environmental Protection Integration (REPI) Program preserves military missions by supporting cost-sharing agreements between the Military Services, other federal agencies, state and local governments, and private conservation organizations to avoid land use conflicts near military installations, address environmental restrictions that limit military activities, and increase resilience to climate change.

Results:

- Over 1.1M Acres
 Protected
- \$800M in REPI
 Dollars matched by
 \$1.1B in Partner
 Funds

Characteristics of Successful Applicants

- Leverage >50% partner match; multiple diverse partnerships
- Executability agreements in place and planning activities (if applicable) are/near complete
- Clearly demonstrate linkage between critical mission vulnerability and proposed solutions

Kristin Thomasgard, REPI Program Director: https://www.repi.mil/

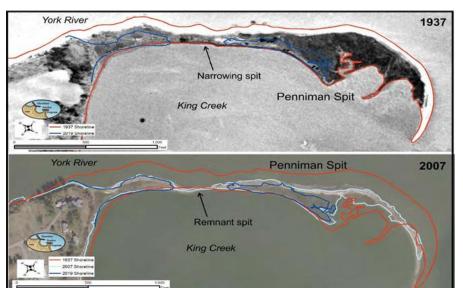


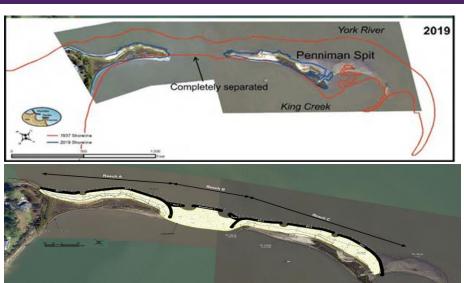




Naval Weapon Station Yorktown (VA) REPI Funding Nature-Based Strategies for Climate Resilie







<u>Penniman Spit Highlights – protect 2,900 lf. of eroding shoreline including protection of NPS Colonial Parkway</u>

- Living shoreline wetland restoration
- Sand flat and shallow water habitat restoration
- 675 linear feet of oyster reef restoration











Sentinel Landscape Program Partnership

- ★ The U.S. Department of Agriculture, U.S. Department of Defense, and U.S. Department of the Interior established the Partnership in 2013
- ★ The Partnership's overarching goals are to:
 - Strengthen military readiness;
 - Bolster agricultural and forestry productivity;
 - Conserve natural resources; and
 - Enhance climate change resilience.



Contact: Kristin Thomasgard DoD REPI Federal Coordinating Committee Representative, Sentinel Landscapes Partnership FCC@sentinellandscapes.org

www.sentinellandscapes.org





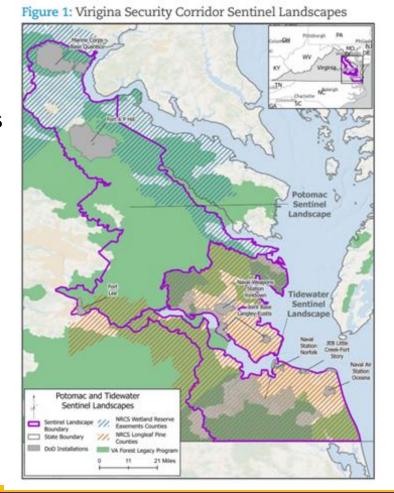




Conserved Land - Sentinel Landscapes

The Sentinel Landscapes Partnership is a coalition of federal agencies, state and local governments, and non-governmental organizations that work with willing landowners and land managers to advance sustainable land use practices around military installations and ranges.

- Virginia Security Corridor Partnership
- Two New Sentinel Landscapes in VA
 - Tidewater Sentinel Landscape
 - Potomac Sentinel Landscape
- Connects Eastern NC and Middle Chesapeake Sentinel Landscapes











<u>Defense Community Infrastructure Pilot (DCIP) Program</u>

The Defense Community Infrastructure Pilot Program (DCIP) is designed to address deficiencies in community infrastructure, supportive of a military installation, in order to enhance military value, cadet training at covered educational institutions, installation resilience, and military family quality of life.

Eligible community infrastructure projects generally must:

- Supports a military installation or the training of cadets
- Is located off of a military installation
- Will enhance military value, training, military installation resilience, or military family quality of life
- Is endorsed by the installation commander representing the installation benefiting from the proposed project
- Is construction-ready



Overview

The Defense Community Infrastructure Pilot Program (DCIP) is designed to address deficiencies in community infrastructure, supportive of a military installation, in order to enhance military value, cadet training at covered educational institutions, installation resilience, and military family quality of life.

Section 2391(d) of Title 10, United States Code (10 U.S.C. 2391), authorizes the Secretary of Defense to "make grants, conclude cooperative agreements, and supplement funds available under Federal programs administered by agencies other than the Department of Defense," for projects owned by a state or local government, or a not-for-profit, memberowned utility service to address deficiencies in community infrastructure supportive of a military installation.

DCIP is a competitive grant program administered by the Department of Defense Office of Local Defense Community Cooperation (OLDCC). Between FY20 and FY22, OLDCC awarded 48 projects representing \$200 million in Federal funding and over \$212 million in match. In FY23, \$100 million is available for award.

Who Can Apply

- State or local governments
- Entities other than those identified above ma partner with an eligible entity

Eligible Projects

Eligible community infrastructure projects are any complete and useable transportation project, school, hospital, police, fire, emergency response, or other community support facility; or water, wastewater, telecommunications, electric, gas, or other utility project that meets the followine criteria:

- Supports a military installation or the training of cadets enrolled in an independent program at a covered educational institution;
- Is located off of a military installation or on property under the jurisdiction of a Secretary of a military department that is subject to a real estate agreement;
- Will enhance military value, training of cadets enrolled in an independent program at a covered educational institution, military installation resilience, or military family quality of life at the supported military installation;
- Is endorsed by the installation commander representing the installation benefiting from the proposed project; and,
- Is construction-ready.



To learn about the application process and past grantees: https://oldcc.gov/defense-community-infrastructure-program-dcip









Model-Based Tracking and Integrated Valuation of Ecosystem Services (MoTIVES)

The DoD's Strategic Environmental Research and Development Program (SERDP) is working with a Duke University Researcher (Dr. Mark Borsuk) to test and refine a model that estimates the value of installation land management practices and their monetary contributions to ecosystem services in surrounding defense communities.

The research will:

- document the ecosystem values that military installations provide to surrounding communities
- will help predict impacts of future land use management activities on ecosystem service production

Initial Study Results:

Current management at Eglin Air Force Base generates \$75.6 Million per year in ecosystem services

Follow up:

In the Chesapeake
Watershed, Fort Belvoir
(VA) is one of six
installations nationwide
where similar contributions
will be assessed.







Defense Access Roads Program

The Defense Access Road (DAR) Program provides a means for the military to pay their share of the cost of public highway improvements necessary to mitigate an unusual impact of a defense activity. An unusual impact could be a significant increase in personnel at a military installation, relocation of an access gate, or the deployment of an oversized or overweight military vehicle or transporter unit.

To initiate a DAR project:

- The local military base identifies the access or mobility needs and brings these deficiencies to the attention of the Military Surface Deployment and Distribution Command (SDDC).
- The base commander formally submits the requirement to SDDC if it is determined to impact the mission or welfare of the base or military service.
- The SDDC will then either prepare a DAR needs evaluation or request the FHWA to make an evaluation,
- Development of a cost estimate and scope of work to address the noted deficiencies.

SDDC Defense Access Road Program Contacts:

Darryl Hampton, P.E. Phone: (618) 220-5578

Bryan Hall, P.E. Phone: (618) 220-5253









Questions?

Contact us:

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Ashley Kelly, DoD CBP Coordinator (kelly.civ@us.navy.mil)





