

GreenPort 2019 of Baltimore

Annual Review

A Strong Port in a Rapidly Changing World

"The Port of Baltimore continues to set records and lead the way as one of our state's largest economic generators, and to remain competitive we must keep innovating." -Maryland Governor Larry Hogan

Innovative, forward-thinking planning charted the course for the Port of Baltimore's enormously successful 2019; a year that showcased its ability to adapt and evolve in a rapidly changing world. From excelling in the digital age, to welcoming Neo-Panamax supersized ships, protecting air and water quality and addressing climate change, the Port of Baltimore is recognized as one of the United States' most highly productive and adaptive ports.

Execution of those plans led the way for two significant milestones in 2019. The first was welcoming the largest container ship ever to visit Maryland, the Evergreen Triton, with a capacity to handle 14,424 twenty-foot equivalent units (TEU). The second was conducting 5,181 container moves while handling Evergreen Thalassa Elpida -- the highest amount of container moves per ship in the Port's history. Both of these records were set because years ago, the Maryland Port Administration had the foresight to enter into a public-private partnership with Ports America Chesapeake that would allow the Port of Baltimore to reinvent its container business and accommodate some of the largest ships in the world.



In May 2019, the Evergreen Triton became the largest container ship to ever visit Maryland. Photo by John Wilhelm/Ports America Chesapeake

Remaining Competitive by Looking Toward the Future

New Deep Berth In partnership with Ports America Chesapeake, a second, 50-foot-deep container berth will be constructed at the Seagirt Marine Terminal. This will allow the Port to handle two supersized ships simultaneously.

Howard Street Tunnel Reconstructing the Howard Street Tunnel to handle double-stacked container trains is expected to grow the Port's container business by about 100,000 containers annually. The project will generate 6,800 construction jobs and 68,000 new jobs nationwide when completed.

Mid-Bay Project The planning and design phase is moving forward for a project to restore James and Barren Islands through the beneficial use of dredged material. This could provide 2,144 acres of wildlife habitat and benefit the Chesapeake Bay Program's Vital Habitats Goal.

Security In 2019, the Federal Emergency Management Agency awarded more than \$700,000 to the Maryland Department of Transportation Maryland Port Administration (MDOT MPA) to strengthen access control points and cybersecurity efforts.



GreenPort 2019, published by the Maryland Department of Transportation Maryland Port Administration, describes the projects and programs that took place in 2019 to support a thriving economy, environmental stewardship, and community partnerships. We thank the many private sector businesses, government leaders, communities, and individual citizens who have helped make these achievements a reality. www.marylandports.com www.marylandports.com/greenport

Economy

MARYLAND PORT ADMINISTRATION 2019



Photo by MDOT MPA

"The Port has never been more productive, and this record-breaking year shows its tremendous value as a regional economic engine creating good-paying, family-supporting jobs for tens of thousands of Marylanders."

-Maryland Governor
Larry Hogan

Economic Powerhouse

The Helen Delich Bentley Port of Baltimore recorded another record-breaking year in 2019. A record 43.6 million tons of cargo was handled, including more than 11 million tons of general cargo at the state-owned public terminals. In addition, the number of vehicles – 857,890 – ranked first among all U.S. ports in that category for the ninth consecutive year.

Records Set at the Port of Baltimore in 2019

- Total International Cargo – 43.6 million tons at the public and private marine terminals, surpassing the previous record of 43 million tons set in 2018.
- General Cargo – 11.1 million tons at the public marine terminals, surpassing the previous record of 10.9 million tons set in 2018.
- Cars/Light Trucks – 857,890 vehicles at the public and private marine terminals, surpassing last year's record of 850,147 vehicles.
- Containers – 657,059 units handled at the public marine terminals, surpassing last year's record of 626,046. The Port also handled a record 1,073,749 Twenty-foot Equivalent Units (TEUs) in 2019, surpassing the previous year's total of 1,023,152.

Cruising Ahead

With 1/3 of the U.S. population within an overnight drive, in 2019 224,712 passengers sailed on 96 cruises from the Port of Baltimore. Nearly 400 jobs are generated by cruise activity in Maryland, including more than 200 direct jobs at the Port. About \$90 million in economic benefits to Maryland is generated by cruise activities through local spending, hotels, dining and entertainment.

PORT ACHIEVEMENTS

STRONG PORT

One of the few ports in the U.S. that can receive some of the largest ships in the world



#1

#1 in handling autos, light trucks, roll on/roll off heavy farm and construction machinery, imported sugar, and gypsum



EMPLOYMENT

- 15,330 direct jobs
- Nearly 140,000 jobs related to Port activities

ECONOMIC IMPACT

\$3.3 billion in wages and salaries
\$2.6 billion in business revenues
\$395 million in state + local tax revenues



ENVIRONMENTAL STEWARDSHIP



Nationally recognized, innovative dredging program that ensures safe transit of supersized ships and is the largest creator of wetlands in Maryland

URBAN TREES

1,500 New Trees for Baltimore



CARGO UP

+
EMISSIONS DOWN

Reducing the lifetime amount of air pollutants by more than 10,000 tons while continuing to grow our business

2019 AWARDS

- **American Association of Port Authorities (AAPA) Environmental Improvement Award** - recognizing 10 years of stewardship, community education, and outreach programs at Masonville Cove
- **MDOT Environmental Excellence Sustainability Award** went to partners MDOT MPA and MDOT Maryland Transit Administration for reusing surplus soil at Masonville Cove, saving the state at least \$4 million dollars, preserving landfill capacity, and opening more public green space.

Environment

MARYLAND PORT ADMINISTRATION 2019

Air Emissions Reduced

In 2019, the Port was awarded \$1.8 million from the U.S. Environmental Protection Agency (EPA) to support MDOT MPA's Diesel Equipment Upgrade Program.

The award provides funds to help replace 44 dray trucks, commonly used for transporting shipping containers to and from the Port, and four pieces of cargo-handling equipment such as forklifts, yard tractors and other heavy cargo machinery.

It's estimated that the replacement equipment acquired for the Port through the DERA grant will result in a lifetime reduction of emissions output of about 14 tons of particulate matter, 290 tons of nitrogen oxides, 96 tons of carbon monoxide and 15 tons of hydrocarbons.

Since the beginning of the Port's Diesel Equipment Upgrade Program in 2008, MDOT MPA has been awarded over \$11M in federal Clean Diesel grants that have enabled the Port to reduce the lifetime amount of air pollutants by more than 10,000 tons while continuing to grow our business.

Cleaner Water

The Fairfield Marine Terminal is home to a new stormwater management system. A large underground sand filter will absorb and treat the runoff from nearly 14 acres of the terminal. The sand filters help ensure that nutrients, debris, and sediment are filtered from stormwater before it enters Baltimore Harbor.

Approximately 7.5 acres of that is new space for cargo that was created as part of the Port's "Transportation Investment Generating Economic Recovery" (TIGER) federal grant project. The

new terminal space was also elevated to make it more resilient against future sea level rise.

New Trees

The City of Baltimore has 1,500 new trees thanks to the MDOT MPA's Urban Forestry Partnership with the nonprofit, Blue Water Baltimore. Increasing Baltimore's tree canopy helps offset sources of carbon dioxide, reduces stormwater runoff, creates wildlife habitat, saves energy, improves property values, and deepens the connection to nature for City residents.

Shorelines & Streams Restored

Arlington Echo A partnership between MDOT MPA, the Maryland Environmental Service (MES), Anne Arundel County Public Schools (AACPS), and the Chesapeake Bay Trust helped to install a new living shoreline at the Arlington Echo Outdoor Education Center. As the County's environmental education center, Arlington Echo hosts over 8,000 student visitors a year that will see the living shoreline with 5,000 native plants on the Severn River.

Baltimore Zoo Partnering for the first time, MDOT MPA and The Maryland Zoo in Baltimore joined forces on stormwater restoration projects at the Zoo to stop erosion, provide habitat for local wildlife, and improve the quality of water that flows into the Jones Falls and ultimately into the Chesapeake Bay. Completed in early spring, the restoration construction projects also includes signage to help educate visitors.

Fleming Park MDOT MPA provided a \$500,000 grant to support Fleming Park, in the neighboring community of Turner Station. Improvements at Fleming Park include public recreation areas with

open fields, walking trails that will allow visitors to observe birds and other wildlife, and a boardwalk that will provide access to the Patapsco River. The effects from rising water levels may be mitigated through the restoration of 2,600 feet of shoreline using dredged material.



Masonville eagles
Photo by Craig Koppie/USFWS

Eagles Thriving on Port Lands

It was an exciting year at Masonville Cove, which served as home to the only known pair of bald eagles that was currently nesting in Baltimore City. The pair successfully raised two male eaglets.

It was also discovered that there were two eaglets thriving at Swan Creek Wetlands and Cox Creek Dredged Material Containment Facility (DMCF), Port-owned land in Anne Arundel County that MDOT MPA has placed into a conservation easement.

Sustainability Study

The office of Safety, Environment, and Risk Management (SERM) developed a Sustainability Strategy for describes the actions that SERM will take over the next three years in its four primary focus areas: Safety and Risk Management, Air and Energy Management, Water Quality, and Stakeholder Engagement.

Community

MARYLAND PORT ADMINISTRATION 2019

Commitment to Students

In 2019, MDOT MPA marked its 10th year of environmental education planning which has reached more than 56,000 students who learned about the Port of Baltimore via in-class programs, presentations and field experiences. MDOT MPA partners with the nonprofit, Maryland Association for Environmental and Outdoor Education (MAEOE), to reach students from Maryland's 621 Green Schools.

Terrapins To date more than 2,300 Poplar Island diamondback terrapins have been a part of a "head start" program administered by Arlington Echo Outdoor Education Center, the National Aquarium, and MES. The terrapins spend their early days cared for in classrooms and away from predators to increase their viability. Eventually, they are released back on Poplar Island.

Giving Back to Our Community

MDOT MPA employees care about the communities where they work. In 2019, employees joined partners such as MES, Baltimore Port Alliance and Blue Water Baltimore to volunteer at places such as Lakeland Elementary/Middle School, Filbert Street Community Garden, and the historic neighborhood of St. Helena.

In the fall, more than 70 volunteers from MDOT MPA and area organizations planted more than 100 trees to improve air and water quality near Port neighborhoods along Broening Highway, an important route for trucks calling at the marine terminals.

Connecting with the Community

The Port works hard to expand public access by hosting numerous events on its land. In 2019, Hart-Miller Island was ranked as the No. 1 eBird Hotspot in Baltimore and No. 3 in Maryland. In October, the second HMI 5 Miler hosted 80 runners.

Masonville Cove Environmental Education Center and partners celebrated a "Decade of Dedication," by extending evening hours once a month in 2019, hosting special weekend events, and offering activities such as yoga night and night hikes. Transportation was provided by shuttles and free Uber rides were available for guests within a 5-mile radius. Masonville Cove, the nation's first Urban Wildlife Refuge Partnership, welcomed the community to its campus to celebrate Urban Wildlife Refuge Day with special hours, free kayak tours, and other activities. More than 550 people participated in these special events.

The Port participated in organizing the Baltimore Port Alliance's first Annual Career & Hiring Expo which attracted more than 215 job seekers and more than 30 Port-related employers. MDOT MPA is committed to outreach to Baltimore neighborhoods to talk about port issues and learn about community interests. Many citizen volunteers gave time and energy to MDOT MPA's advisory committees, including the Dredged Material Management Program. The public is welcome to attend any of these meetings.

MDOT MPA and the Baltimore Port Alliance hosted two stakeholder terminal tours, the first in May and the second in November. Combined, the tours helped inform and engage members of local communities.



2019 MAEOE Youth Summit
Photo by Jody Couser/EcoLogix Group, Inc.



MDOT MPA's Facility Maintenance, Fleet and Cranes Department volunteer in the St. Helena community.
Photo by Dan Spack/EcoLogix Group, Inc.

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