

GreenPort 2012 of Baltimore

Economy

Environment

Community



Welcome to GreenPort

The Port of Baltimore is a hub of transportation, logistical activities, and jobs that relies on one of the nation's greatest natural treasures, the Chesapeake Bay, for its success. We at the Maryland Port Administration are committed to providing the economic benefits of a thriving port while also securing clean air and water for the port's closest neighbors and the Chesapeake region as a whole.

GreenPort 2012 is the Maryland Port Administration's latest annual update of projects and programs that help us achieve these dual goals. As always, we thank the many private sector partners, government leaders, communities, and individual citizens who have helped make these achievements a reality.

Green Business & Good Neighbors

The Port of Baltimore is a vibrant mix of public and private marine terminals that delivers jobs, revenue, and an enormous mix of consumer goods, industrial goods, and raw materials to citizens in Maryland and across the country. In 2012, the Maryland Port Administration (MPA) continued to nurture this vital flow of commerce while advancing its award-winning work for environmental stewardship and community outreach.

The year delivered significant support for international commerce as the Seagirt Marine Terminal saw the completion of a new 50-foot deep berth and the installation of four super-sized cranes. This work, in preparation for the expansion of the Panama Canal, makes Baltimore one of only two East Coast ports that can accommodate some of the world's largest ships.

Cruising from the Port of Baltimore continued to be a huge success. Nearly every ship sailed at full capacity and, in November, the one millionth cruise passenger sailed from the South Locust Point cruise

terminal since the facility opened in 2006. Tourism at the June "Sailabration," which drew scores of international tall ships to the harbor, also provided a big economic boost for the state.

Clean air and clean water also remain a focus for the MPA. In November, Lt. Governor Brown helped celebrate the official opening of the Masonville Cove nature area, an 11-acre parcel of land equipped with walking trails, a fishing pier, and a dock for paddle craft. This MPA project, next to the Masonville dredged material placement site, is refurbishing one of the harbor's most contaminated areas into a site that simultaneously benefits the port, the environment, and the local community.

Also, the MPA and Baltimore Port Alliance were honored to receive the 2012 Renaissance Anchor of the Year award from the Dundalk Renaissance Corporation. The award recognizes port partners for their economic contributions, as well as for seeking community partnerships that benefit the local community and the port as a whole.



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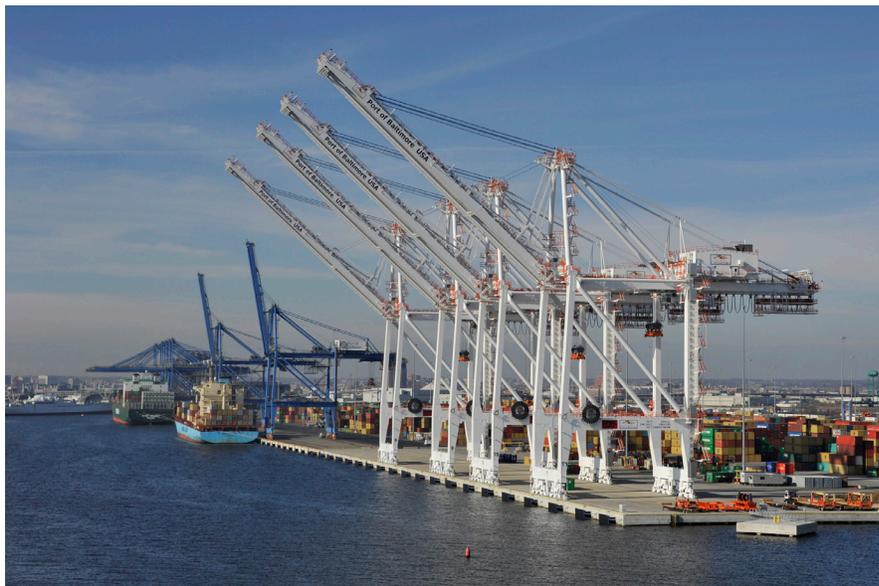
New Cranes for a New Era

The installation of four enormous cranes at the Seagirt Marine Terminal is the latest, most visible phase of the MPA's response to the expansion of the Panama Canal. The new cranes installed by Ports America Chesapeake, combined with a 50-foot deep berth, prepare Baltimore for receiving the massive cargo ships that will soon be reaching the East Coast through the expanded canal.

The cranes made a dramatic sight on the Chesapeake Bay as they completed their journey from China in June. They are the largest of their kind in the maritime industry — tall enough to clear a 14-story building, reach across 22 containers of cargo, and lift 187,300 pounds.

Another Great Year for Cargo

In 2012, the MPA set a record with 9.6 million tons of general cargo cross-



Preparing for the arrival of larger ships at the Seagirt Marine Terminal

ing its public terminals. Baltimore continues to rank first among 360 United States ports for handling farm and construction machinery, autos and light trucks, imported forest products, and imported sugar. Baltimore ranks second for exported coal and imported aluminum.

All Aboard for Tourism

A cruise from Baltimore remains a smart, popular option for travelers. In 2012, approximately 240,000 passengers departed from Baltimore on more than 100 cruises. The port continues to capture a significant share of the market for "drive-to" departures.

The MPA also worked with area partners on the June "Sailabration" that kicked off the bicentennial of the War of 1812. More than 45 vessels from around the world were docked at the Inner Harbor, Fell's Point, and Locust Point. The week-long festival drew an estimated 1.54 million visitors from 24 states who spent more than \$166 million during their visit.

Safe Passage

The dredged material placement site at Cox Creek received its largest inflow of dredged material to date when the U.S. Army Corps of Engineers cleared hundreds of thousands of cubic yards of sediment from the Brewerton shipping channel in October. Cox Creek, with a diked placement cell along the Patapsco River, has an estimated capacity to receive 500,000 cubic yards of dredged material each year and will likely be operating for approximately 12 years into the future.

Job Engine

The Port of Baltimore continues to serve as an economic driver for the region. Approximately 14,630 direct jobs and 100,000 additional jobs are linked to port activities. This generates \$3 billion in personal wages and salaries and provides more than \$300 million in state and local taxes. The total economic value of the Port of Baltimore is estimated at \$3.5 billion per year.



Cruise passengers coming aboard



Farm equipment at the Port of Baltimore



Students planting grasses in Swan Creek wetlands

Water Quality

The MPA continues to work with state and local partners to meet the federally mandated goals for water quality in the Chesapeake Bay, known as the Total Maximum Daily Load (TMDL). This includes taking steps to reduce nutrient loads and sediment in stormwater runoff as well as in the water decanted from dredged material placement sites.

Private port businesses, such as Ports America Chesapeake, Vane Brothers, and McAllister Towing, are also installing practices that will help reduce pollution in our waterways.

Wetlands and Habitat

In 2012, the MPA continued to create and enhance wetlands at the Poplar Island, Hart-Miller, Masonville, and Cox Creek dredged material placement sites, including a preserved area at Swan Creek that has become popular with local birders.

At Poplar Island, scientists documented the first female terrapin that had been hatched on its shores returning

to the island to lay her eggs. In the heart of Baltimore, the World Trade Center has become the host site for a case study of “floating wetlands,” a raft-like collection of wetland plants that draw a variety of fish and beneficial microscopic creatures to their root mass.

Energy Performance

Wide-scale lighting upgrades and a new set of solar panels are saving both money and energy at MPA facilities. Rooftop solar systems at the cruise terminal and South Locust Point Marine Terminal are generating roughly 40,000 kilowatt hours each month. These and other upgrades will collectively reduce energy consumption by 28.7 percent and water consumption by 24.6 percent.

Air Quality

In 2012, the MPA’s Clean Diesel Program began helping dray truck owners replace their trucks with newer, cleaner models that will improve air quality near truck routes and port facilities. The program will help replace

up to 50 dray trucks, with \$20,000 in assistance toward each purchase of a newer model.

In the private sector, Moran Towing raised the bar for green tug boats in Baltimore with the introduction of the *Mark Moran*. This powerful new tug boat burns ultra-low sulfur diesel and meets the EPA Tier III standard for lower emissions.

Remediation Decision

A formal plan is in place to address the chrome ore processing residue that lies under the Dundalk Marine Terminal. The plan will reduce and contain impacts through water treatment, stormdrain linings, and blacktop maintenance. A working group, including citizen leaders from adjacent neighborhoods, will help keep communities informed about the activities and progress of the remediation plan.



Floating wetlands at the Inner Harbor



The “green” tug boat Mark Moran

Masonville Cove

The MPA and its partners celebrated a landmark moment in October when an 11-acre nature area at Masonville Cove officially opened to the public. The MPA has been working to clean and restore the cove's shoreline, which is adjacent to the MPA's dredged material placement site along the Patapsco River. The newly opened natural area offers free access to the shoreline, including walking trails, a fishing pier, and bird-watching. A ramp is available for launching kayaks and canoes.

In the Schools

Teachers from Baltimore County and Baltimore City participated in a training program organized by the MPA and Baltimore Port Alliance. Twenty-six agencies volunteered to help teachers learn how port-related field experiences can help meet environmental literacy requirements for students.

Through its Schoolyard Greening program, the MPA also replaced pavement at the Baltimore Polytechnic Institute with trees, flowers, and shrubs. The plants and the soil substructure beneath them were designed to capture and absorb stormwater that washes off a one-acre parking lot next to the school.

Cleaner Streams

A stream clean-up at Turner Station Park turned out lots of support from the Baltimore Port Alliance. Volunteers removed 5.25 tons of trash from the streambed and surrounding grounds,



Teachers participating in the Port of Baltimore's first teacher training program

and planted 13 trees provided by the Dundalk Renaissance Corporation.

Community Connections

Nearly 10,000 adults and students participated in port-related classroom presentations, site tours, public events, and conferences. They also volunteered for clean-ups and planting events, with help from the Maryland Environmental Service and National Aquarium at Baltimore.

An open house at the Cox Creek placement site impressed visitors of all ages with its carefully monitored operations and nearby environmental treasures in the preserved Swan Creek wetlands. The MPA also continued its dedicated outreach to the citizens and neighborhood groups located near its existing facilities and sites of potential future operations.



Celebrating the Masonville shoreline



Clean-up team at Turner Station Park



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