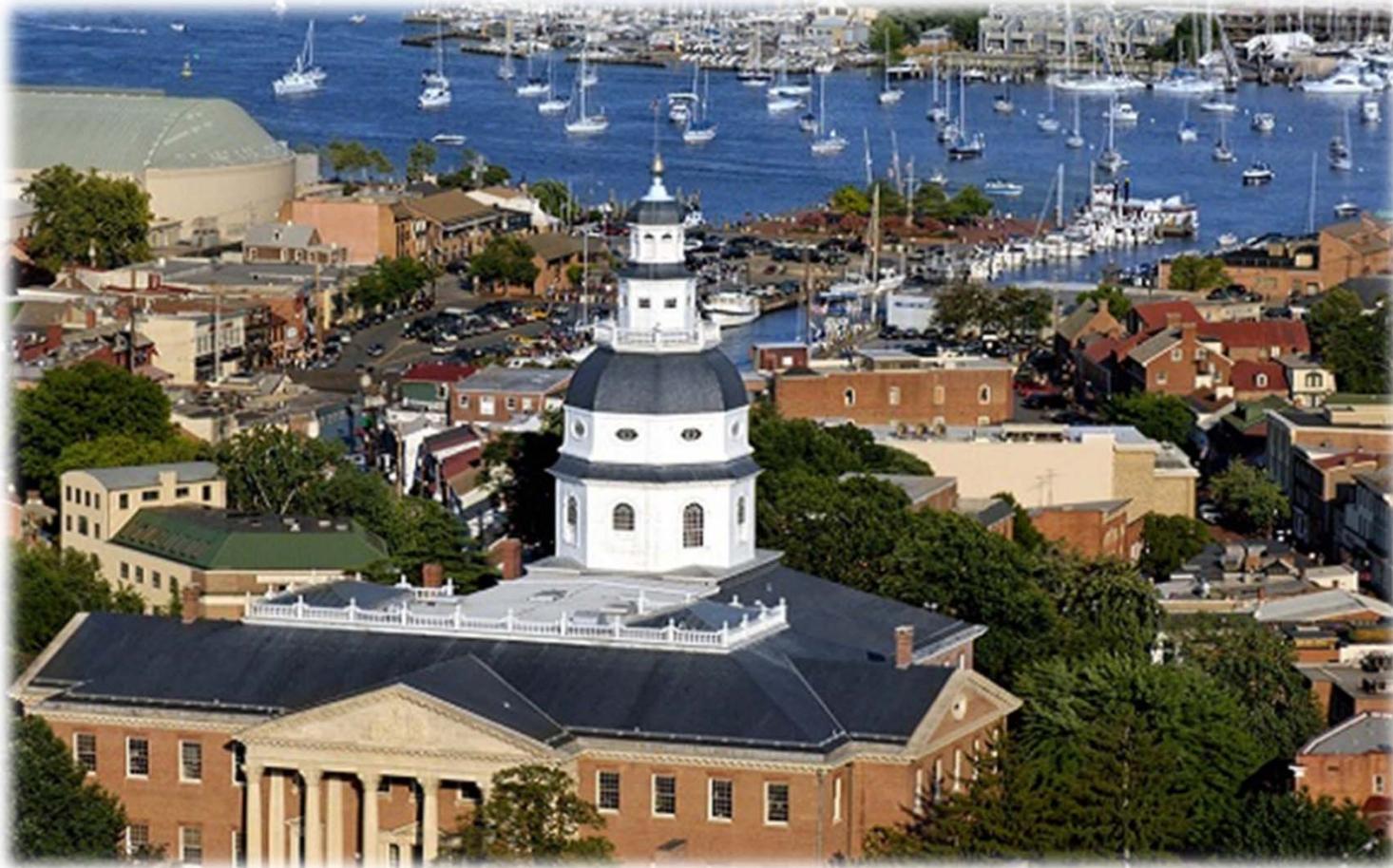




Office of Environmental Policy

CURRENT ENVIRONMENTAL PROGRAMS AND INITIATIVES



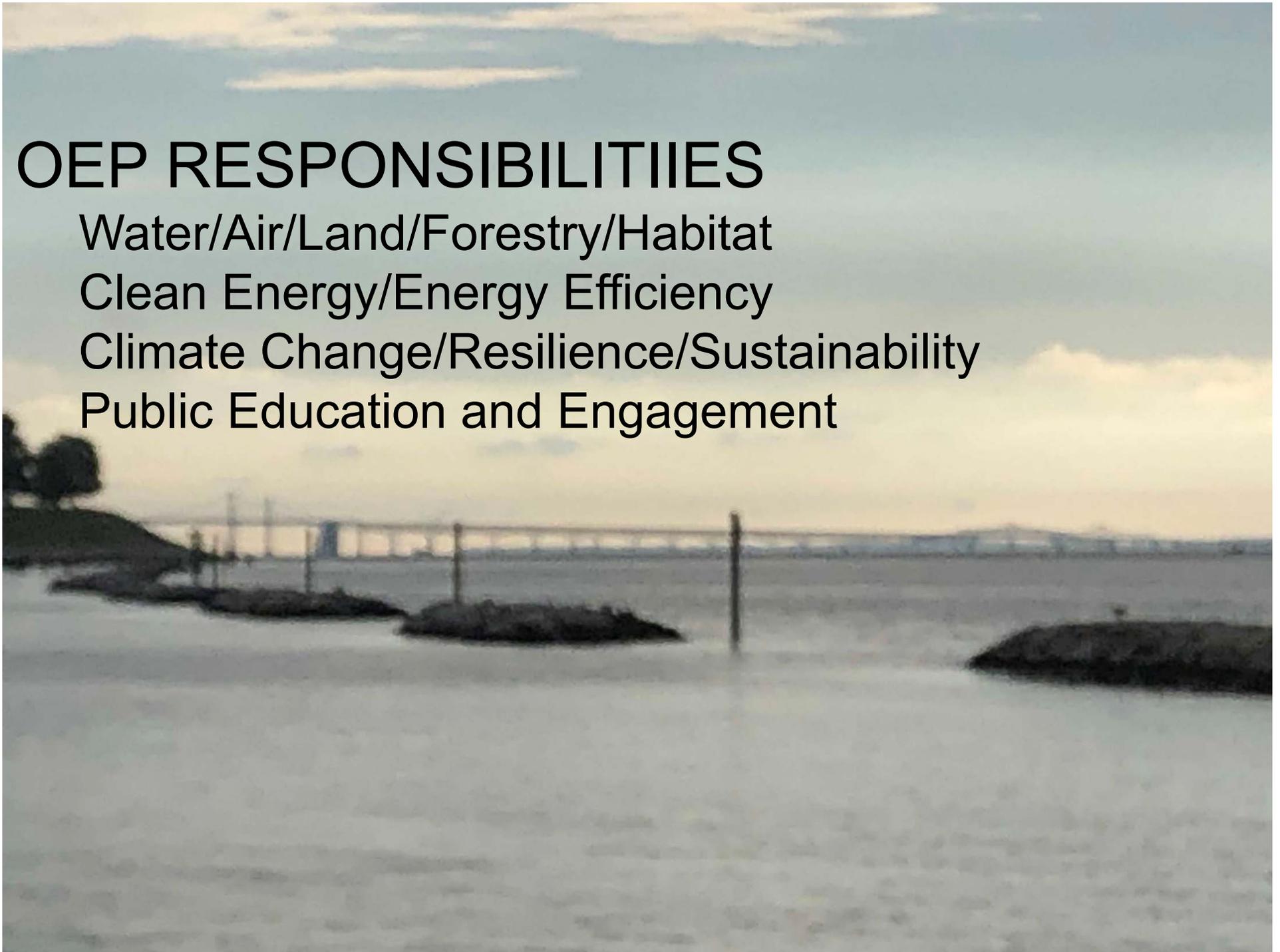
OEP RESPONSIBILITIES

Water/Air/Land/Forestry/Habitat

Clean Energy/Energy Efficiency

Climate Change/Resilience/Sustainability

Public Education and Engagement

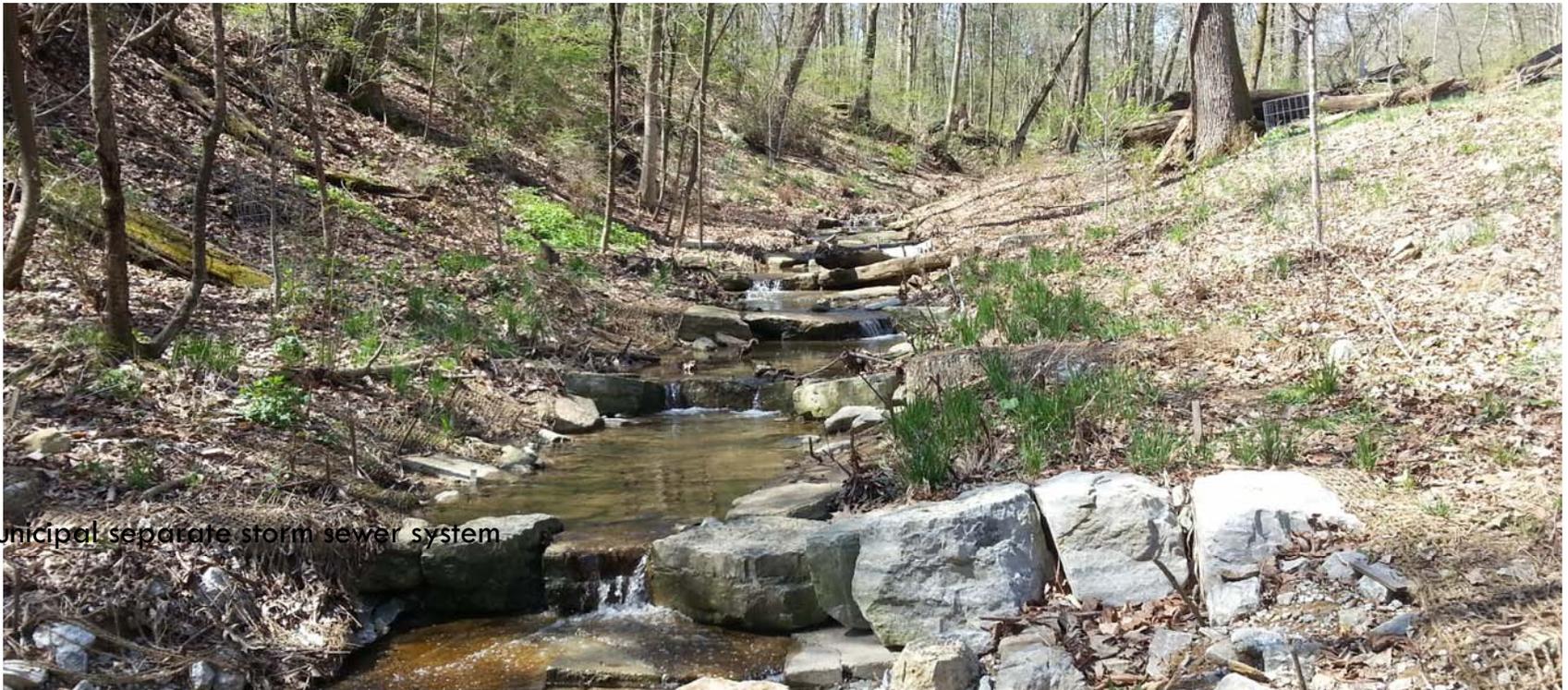


CURRENT INITIATIVES

Water Quality Improvement

Staff led restoration projects to meet pollutant reduction goals under municipal separate storm sewer system (MS4) permit – Back Creek and Spa Creek watersheds

Facilitate non-profit restoration projects – SPCA living St. Mary's living shoreline, St. Lukes's stream restoration, Ellen Moyer Park stormwater project, Hawkins Cove living shoreline



*municipal separate storm sewer system

Water Quality cont'd

- Reporting, public education, and staff training to meet MS4 requirements
- Input on development projects for stormwater treatment - Providence Point, Kiddie Academy, Easport SC, PW Maintenance facility
- No Discharge Zone application – under review by EPA, approval expected late 2020
- Stormwater Rate study and recommendations

Expanding Permitted Uses of Critical Area Fee In Lieu

allow vegetation other than trees

allow use for living shoreline/watershed restoration

contribute to pooled grant funding

use funds for conservation easement surveys

Waterways Cabinet – lead effort to ensure stakeholder input to Mayor and City staff; Cabinet includes staff, non-profits and community representatives

URBAN FORESTRY PROGRAM

Updating Tree Canopy Assessment – complete summer 2020

- 50% tree canopy by 2036; currently approximately 42%
- Assessment will provide basis for a tree canopy strategy

Reinvigorate Trees of Distinction Program – size, age, historic value, unusual growth, aesthetic value

City Forester, Brian Adams

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CLIMATE CHANGE RESILIENCE SUSTAINABILITY

Update 2012 “Sustainable Annapolis
Community Action Plan”

Create Climate Resilience Plan with PZ
based on 2019 Climate Action Strategy

Expand “Plastic Free Annapolis”

City representative in Microgrid
Feasibility Study for Newtowne Twenty –
collaboration with Smart Energy Power Alliance
(SEPA), BGE, HACA

Transportation Alternatives

Reducing Building Emissions

Reinvigorate “Environmental Stewards
Program” for businesses, schools, churches, non-
profits



INCORPORATING ENVIRONMENTAL DRIVERS AND OUTCOMES INTO PLANNING DECISIONS TO MITIGATE EFFECTS OF CLIMATE CHANGE

FEMA COMMUNITY RATING APPLICATION TO REDUCE FLOOD INSURANCE
MILITARY INSTALLATION RESILIENCE PROGRAM GRANT
ZONING CHANGES?



AIR QUALITY AND ENERGY EFFICIENCY PROJECTS



TRANSPORTATION

Alternative Fuel Vehicles

- Electrifying/Greening of City Fleet – PW, Police, Transportation

Installation of Electric Vehicle Charging Stations

- FREE units, installation and maintenance of charging stations!
Partnership with BGE: Pip Moyer Rec Center, City Garages, Downtown and West Annapolis, Ellen Moyer Park, nominal lease to City at retail centers

Penalties for Parking in EV Charging Spaces

Multi Modal Streets and Trails –

- ❖ “Greenway” map for Comprehensive Plan
- ❖ Conservation Board properties to tie to Poplar Trail expansion and other bike trails

BUILDING EMISSIONS

Updates to Greenhouse Gas Emissions Inventories

- City Government Inventory
- Community Inventory
- Last updates 2006
- Update will track energy expenses to serve as a baseline for improvement
- Energy efficient appliances, timers, thermostats, and lighting implemented 2016-2020.

CITY CERTIFICATIONS

Tree City

Bee City

Bird City

First Maryland
"High Flyer"

Sustainable
Maryland

STAR

CITY MS4 PERMIT

Municipal Separate Storm Sewer System – 5 year permit administered by Maryland Department of the Environment (MDE)

U.S. EPA requires certain operators of stormwater conveyance systems to obtain a National Pollutant Discharge Elimination System (NPDES) MS4 permit

The permit governs maintenance, improvements, compliance, training, and public outreach requirements.

Goal: Implement city actions to reduce pollutant load reductions set by EPA for Maryland to achieve water quality standards under the Chesapeake Bay Total Maximum Daily Load (TMDL) or “Bay Pollution Diet”

A TMDL sets the pollution loads the Bay can withstand and still meet water quality goals set by EPA based on uses of a waterbody.

MS4 cont'd

City entered long term contract with GreenVest to design and implement watershed restoration efforts, data collection on existing Best Management Practices, and reporting.

Two top to bottom watershed restoration efforts – Back Creek and Spa Creek (2019 – 2023), coordinating with non-profit projects

Additional benefits include:

- Reduce stream, river, and shoreline erosion (sediment pollution)
- Create buffers from tidal action and flooding
- Restore floodplains
- Reintroduce native plant species
- Restore habitat
- Create green spaces for humans



MS4 PERMIT REQUIREMENTS

M

- Phase II MS4 permit issued in 2017
- Requires treatment of 20% of the 2002 baseline impervious area in the City
- Total 2002 Baseline Impervious Surface Area 1,529.30 acres.
- 20% = 305.86 acres

MS4 cont'd

- ❖ The City's MSR permit Requires 20% reduction of the City's impervious surface by 2023 to achieve reductions of nitrogen, phosphorus, and sediment.
- ❖ Long-term contract with GreenVest to design and implement stream restoration projects to generate pollution reduction credits.
 - City's Watershed Improvement Plan and AECOM study identified priority projects
 - City staff identified other priority projects, including input from non-profit groups and residents
 - Cost: approximately \$22M funded largely through Watershed Improvement Fund

QUESTIONS?

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