

Masonville Mitigation & Community Enhancement

Presented to the Masonville CAC

August 6, 2020

Mitigation and Enhancements



Conservation
Easement



Shad and Herring
Restoration



Trash Interceptors



Fringe Wetland



Western Run Stream
Restoration



Education/ Research
\$500,000 Allocation



Shallow Water
Habitat Substrate
Improvement



Water Quality
Monitoring in Cove



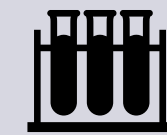
Derelict Vessel
Remediation



Eel Passage



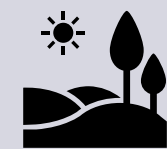
Landside and In-
Water Clean Up



Sediment
Containment
Encapsulation



Nontidal Wetland
Creation



Terrestrial Habitat
Enhancement



Tidal Wetland
Creation and
Enhancement



Bloede Dam
Removal



Education and
Nature Center/
Trails



Reef and Fish
Habitat Creation

Nearing Completion

Conservation Easement

- Will be held by Maryland Environmental Trust (MET) and Baltimore Green Space



Before and After Photos - Living shoreline and pier at Masonville

Nearing Completion

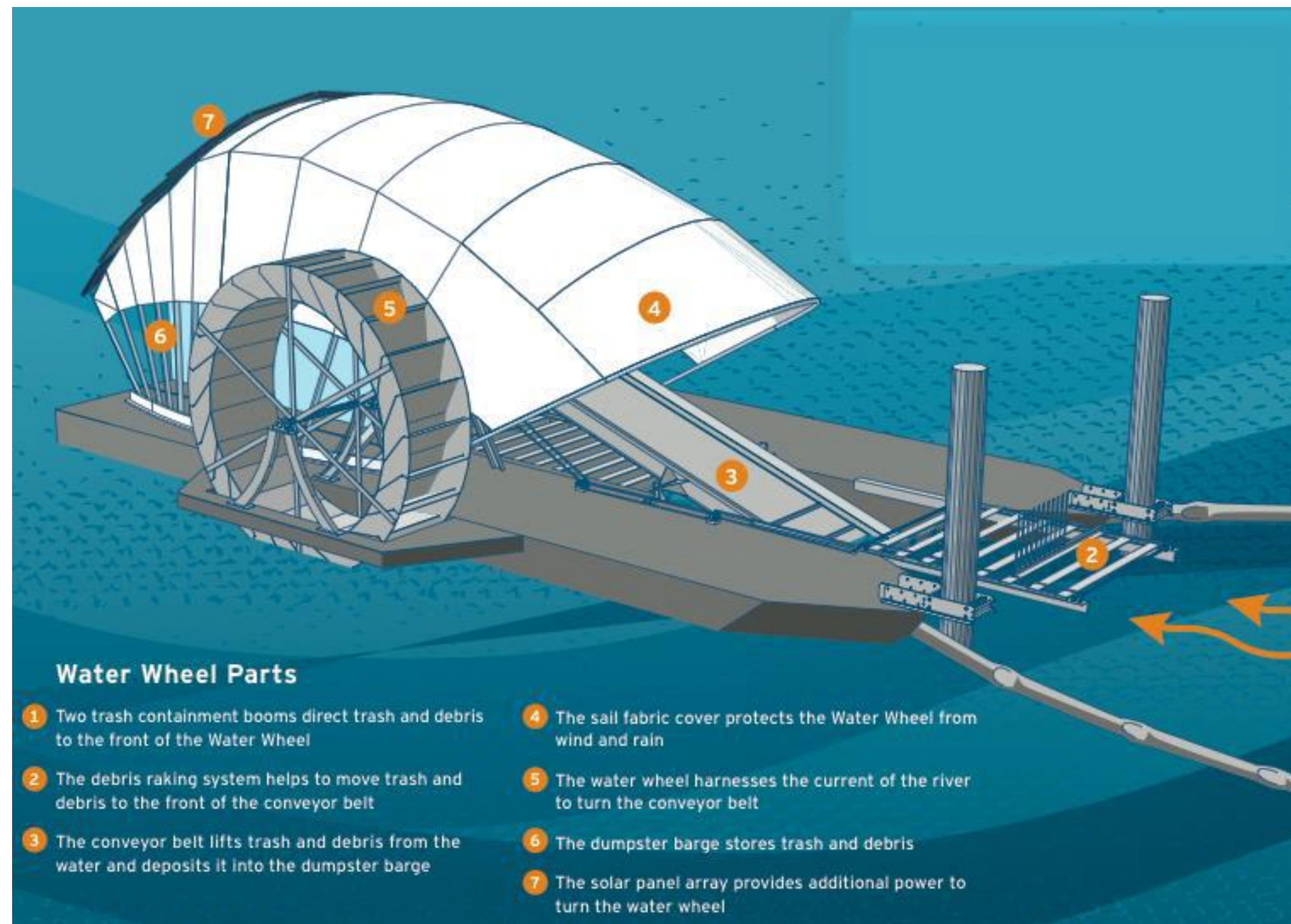
Gwynns Falls Trash Wheel

- Waterfront Partnership has begun construction on the trash wheel.
- Construction is projected to be completed and installed by the end of 2020.



ZIS
ZIGER | SNEAD ARCHITECTS

Rendering from Ziger Snead of the Gwynns Falls Trash Wheel Location



Google Maps of the proposed location of the Gwynns Falls Trash Wheel (Left)

Depiction of a trash wheel designed by Clearwater Mills (above)

Maintenance, Operations and Monitoring

The following projects are approved as complete and no further action is necessary:

On Site	Landside and in Water Cleanup
	Terrestrial Habitat Enhancement
	Derelict Vessel Removal

Off Site	Shad Herring Restoration
	Western Run
	Bloede Dam Removal

Operations, maintenance and monitoring will continue for the following projects:

On Site	Captain Trash Wheel
	Education Center, Nature Trails and Education Outreach with Partners
	Water Quality Monitoring (DNR)
	Wetlands Creation and Enhancement (fringe, tidal and nontidal)
	Reef and Fish Habitat Creation
	Conservation Easement
	Shallow Water Substrate Improvement and Sediment Containment Encapsulation

Off Site	Eel Passage
	Trash Wheels (Waterfront Partnership)
	Dundalk Marine Terminal Trash Interceptor
	Solar Compacting Trash Cans (Baltimore City Department of Public Works)

Data and Results

On Site Mitigation Projects



On Site Project Data



Mitigation and Enhancements

Reef balls

- Six species of fish captured in July 2020 around the Masonville Cove Reef ball habitat

Wetlands

- Goal - Wetlands to have 85% vegetation coverage
- Tidal wetlands - 2019 greatest vegetation coverage was 61%
- Nontidal Wetlands - greatest vegetation coverage 100%

Water Quality Monitoring Station

- Monitors Cove water quality results can be found at [DNR Eyes on the Bay](#) website

Tree planting

- Over 5,200 individuals planted

Masonville Trash Wheel

- As of June 2020 - 19.06 tons of trash removed

Off Site Mitigation Projects

Legend

- Baltimore Harbor
- Gwynns Falls
- Herring Run
- Jones Falls
- Masonville DMCF

Western Run stream restoration

Eel Passage

Biddison Run stream restoration

Mr. Trash Wheel

Gwynns Falls trash wheel

Bloede Dam removal funding

DMT trash interceptor

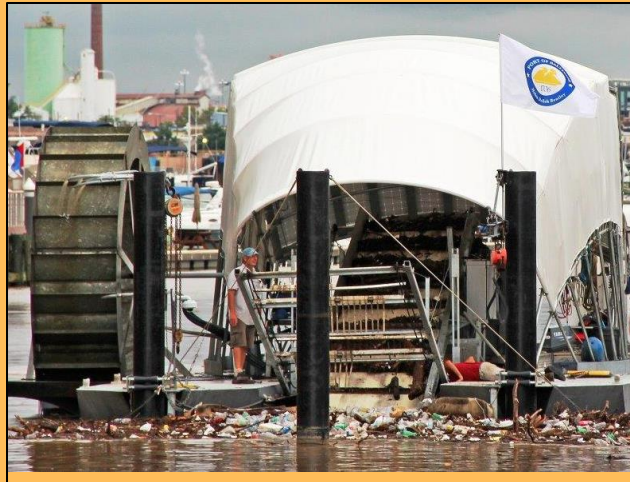
Fish stocking

Solar compacting trash cans

Google Earth



Off Site Project Data



Mitigation and Enhancements

Solar Compacting Trash Cans

- Baltimore City continues to operate and service these trash cans.
- January - May 2020, 33,263 gallons of trash collected.

Mr. Trash Wheel (Jones Falls)

- Continuing to function well as of June 2020, 1,342 tons of trash removed.

DMT Trash Interceptor

- Functioning well; cleaning took place July 2020.

Eel passage

- During the 2019 season (April-October), 53 American eel used the ladder; a 46% increase from 2018

QUESTIONS?