



Maryland
Department of
the Environment

Coast Smart Guidelines and Implementation Water and Wastewater Projects

Walid Saffouri, P.E., Program Administrator
Engineering and Capital Projects Program

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Examples of Water and Wastewater Structures

1. Administration building in a treatment plant
2. Storage facility
3. Chemical storage tank
4. Water storage tank if not elevated
5. Pumping Station or other equipment housing
6. Generator, electrical panel



Process

1. Siting outside CS-CRAB
2. Categorical Exception
3. Waiver



Siting outside CS-CRAB

We encourage the use of the State Comprehensive Flood Management Grant (CFMG) funds to relocate systems out of CS-CRAB. Example projects:

- Windmill Pumping Station (Easton, Talbot County)
- Hancock WWTP (Washington County)
- Middletown West WWTP (Frederick County)



Windmill Pumping Station (Easton, Talbot County)

- The project is to relocate the existing pumping station out the CS-CRAB area.
- Funding: \$1.9 million CFMG+ \$1.2 million SRF Loan + \$1.2 million SRF Loan Forgiveness + \$2.7 million local funds = \$7 million total.
- Project Status: Desing was completed and ready to go to construction soon.



Windmill Pumping Station Relocation

1/12/23, 4:43 PM

Coast Smart CRAB

Windmill Pump Station and Forcemain Location

Show search results for 1131 S Washi...

Existing Station

New Station

Forcemain Route

0.2mi

154 38.753 Degrees

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<https://mdfoodmaps.net/CRAB/>

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Existing Windmill Pumping Station

Google Maps

1131 S Washington St

Windmill Pump Station - Existing

Easton, Maryland

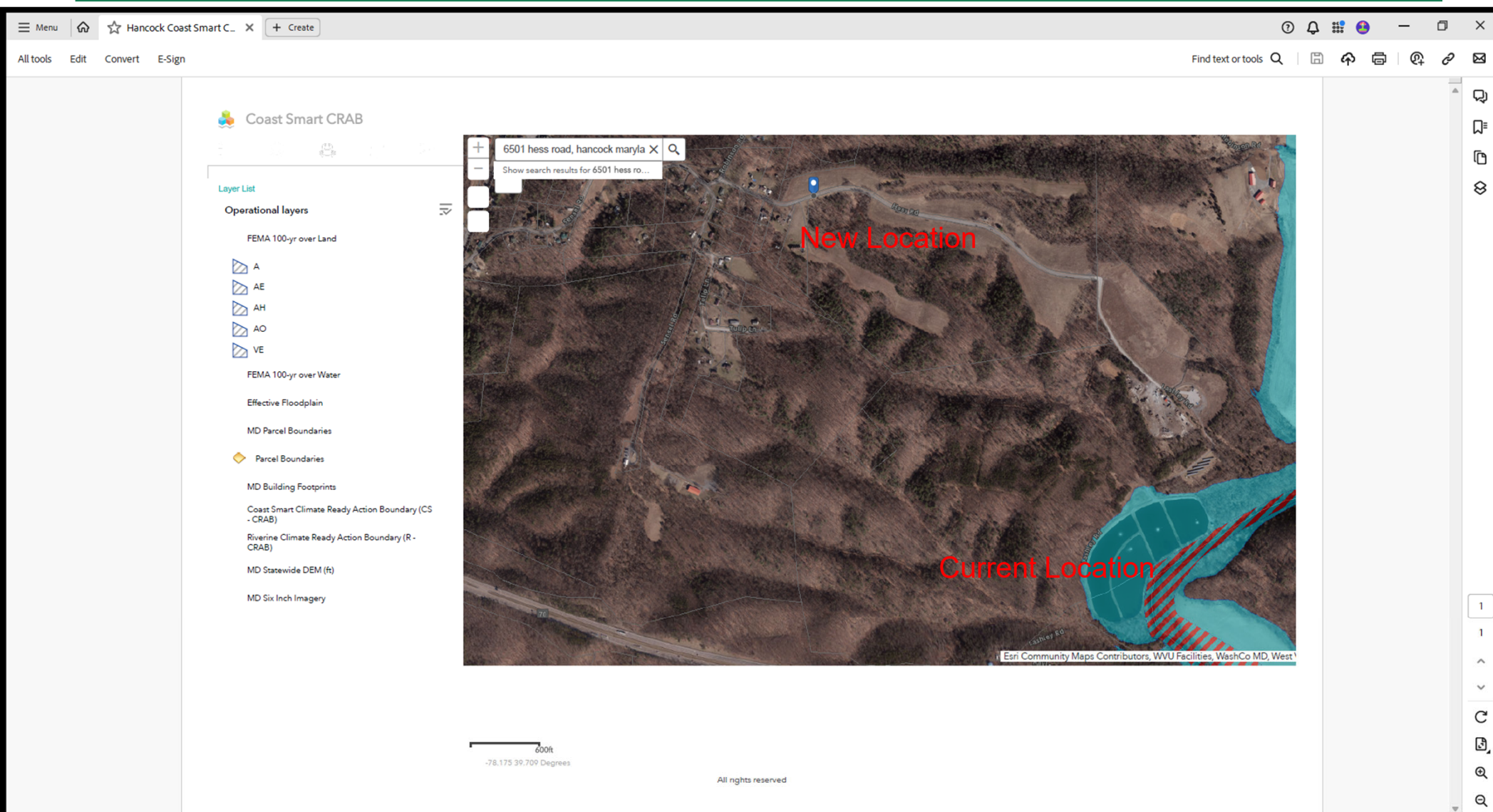


Street View - Oct 2019





Hancock WWTP Relocation (In Planning)





Middletown West WWTP Current Location (In Planning)

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All tools Edit Convert E-Sign Find text or tools

Coast Smart CRAB

Find address or place

Knoll Side Ln

Ivy Hill Dr

Wiles Branch Park

AE (408)

Middletown West WWTP 500-Year

500-Year

500-Year

1



Possible Categorical Exceptions for Water and Wastewater

- Water Dependent Uses: Structures associated with drinking water intakes or wastewater outfalls.
- Historic Structures
- Temporary Structures



Waivers (Structures Cannot be Relocated)

- Smith Island (Ewell) WWTP, Somerset County
- Cove Street Pumping Station, Crisfield, Somerset County
- Robberset Pumping Station, Crisfield, Somerset County

New or replaced structures were elevated at least three feet above the current 100-year floodplain.



Crisfield CS-CRAB Map

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Flood Maps of Crisfield Projects

Date: 1/2/2024

Legend

FEMA 100-yr over Land

- A
- A8
- AH
- AO
- VE

Coast Smart Climate Ready Action Boundary (CS-CRAB)

- > 2 ft CRAB inundated
- 1 ft to 2 ft CRAB inundated
- < 1 ft CRAB inundated

Regional Flood Map

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and Links for usage and reference: <https://mdfloodmaps.net/> <https://mdfloodmaps.net/crs/E-mail-ll...>

Most, if not all, of the City of Crisfield would be inundated with a 100-yr storm. This is consistent with what happened in 2012 with Superstorm Sandy.

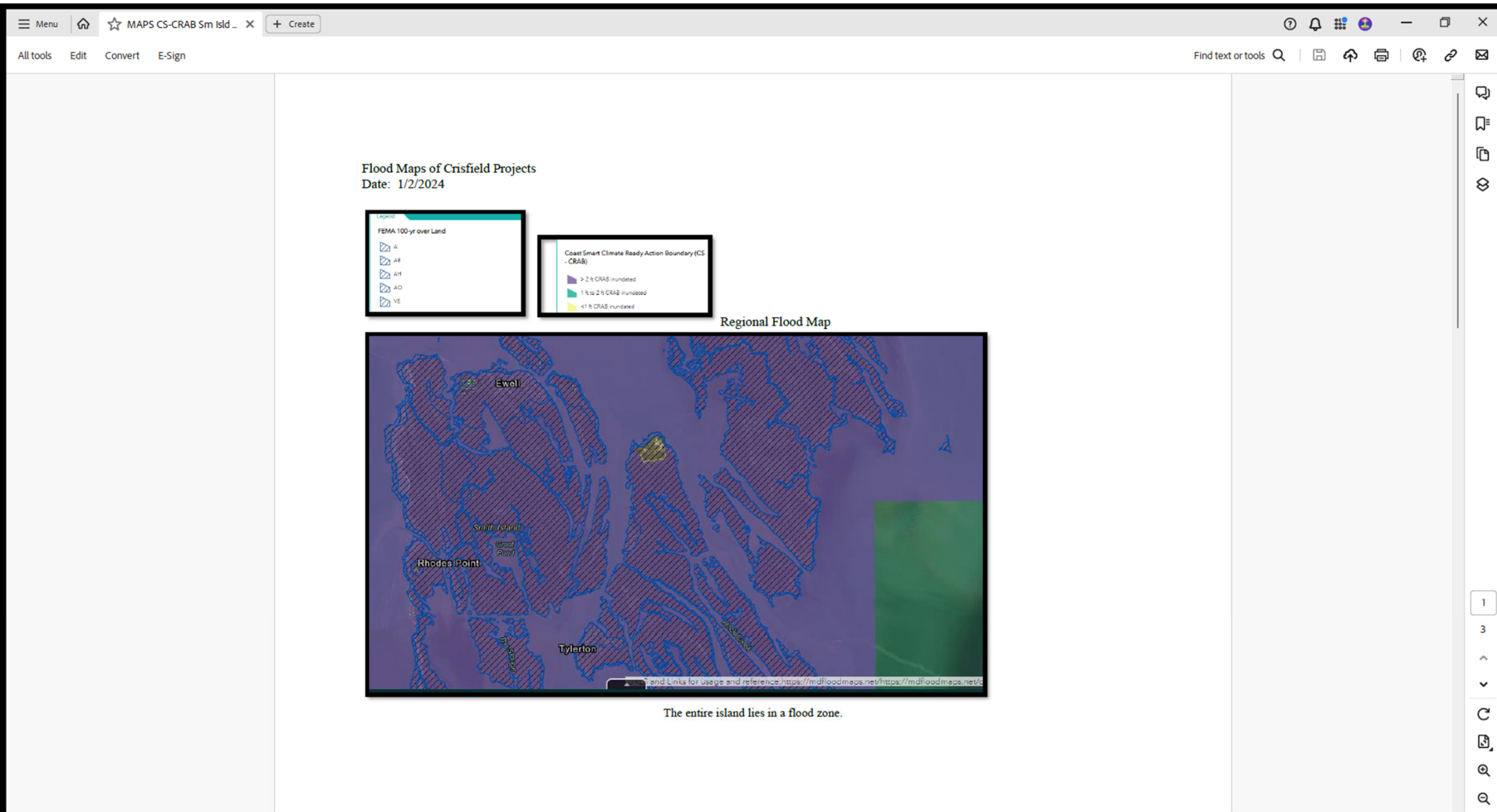


Cove Street and Ruberset Pumping Stations (Crisfield, Somerset County)

- The projects involve the replacement of two aging pumping stations.
- Structures (generators and fuel tanks) will be elevated three feet above the current 100-year floodplains.
- The top of the wet wells, which contain the submersible pumps, will be extended 3 feet above the current 100-year floodplains.
- Cost is approximately \$3 million - fully funded by MDE SRF loan and loan forgiveness, and USDA grant and loan.
- Status: Under Design



Smith Island CS-CRAB Map





Smith Island (Ewell) WWTP, Somerset County)

- The project involves the replacement of two aging wastewater treatment plants with one that include Enhanced Nutrient Removal (ENR) technology.
- The new plant is being constructed on a timber deck elevated more than three feet above the current 100-year floodplains.
- Cost is approximately \$22.5 million - fully funded by MDE BRF and other state grants, SRF loan/loan forgiveness, EPA grant, and USDA grant and loan.
- Status: Under Construction (~34% complete)




Smith Island WWTTP Construction

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<https://drive.google.com/file/d/1PnpbdBdLjODqEUG0kJN5gdVKG71Fqx/view>

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Questions?

Walid Saffouri, P.E., Program Administrator
Engineering and Capital Projects Program

Walid.Saffouri@maryland.gov

(410) 537-3757