

From: (b) (6)
To: (b) (6)
Cc: (b) (6)
Subject: DC CSRM Draft Report - Arlington County Comments
Date: Sunday, July 31, 2022 12:48:46 PM
Attachments: (b) (6)

DC CSRM Team,

Arlington County provided the following comments on the proposed floodwall project at the Arlington Water Pollution Control Plant. Please see below.

We will begin coordinating our responses over the next few weeks.

Thanks,
Katie

From: (b) (6)
Sent: Friday, July 22, 2022 2:32 PM
To: DC-Metro-CSRM-Study DC-Metro-CSRM-Study@usace.army.mil
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Subject: [Non-DoD Source] Comments on NOVA Coastal Study - WPCP Floodwall

Arlington County has reviewed the May 2022 NOVA Coastal Study, specifically in regard to the proposed floodwall along the Arlington Water Pollution Control Plant (WPCP). We appreciate the US Army Corps of Engineers considering a protective barrier, as the plant is a critical piece of County infrastructure; however, we do have some questions/concerns regarding the proposed location and design.

1. Will the floodwall be located on the northern or southern side of the trail? Will the trail need to be closed during construction, and if so, where will the detour be located?
2. The wall will cross several existing stormwater outfalls to Four Mile Run, and possibly sanitary sewer and/or water lines, particularly as it bends towards Glebe Road. Will these utilities require relocation?
3. The existing Four Mile Run Flood Control Project requires regular maintenance, which will need to be coordinated with construction of the proposed floodwall.
4. The wall will impact the FEMA floodplain in certain areas.
5. The Dominion project, which will soon be under construction, begins just east of the end of

the proposed floodwall (at the substation on S Eads St.). Work at the WPCP will need to be coordinated with them.

6. This area of Four Mile Run was part of a “living shoreline” enhancement approximately 6 years ago. Components of this project included public art installed on the metal fence surrounding the WPCP, a public art bench (imported from the Netherlands) located along this fence, an observation platform, as well as fish murals painted occasionally along the trail. These items, as well as the shoreline itself, are all likely to be impacted by the proposed floodwall and should be protected/relocated.
7. Depending on the exact locations of the transition points between wall heights, there is some concern that the wall may not be high enough.
8. The wall will block off the natural overland flow path from approximately 61.5 upstream acres that currently runoff directly to Four Mile Run. During a future predicted large storm event (500-year flood in the year 2070), it is estimated that up to almost 3 million cubic feet of runoff could accumulate behind the wall. The project will need to include some type of detention facility to temporarily store this water, or provide a one-way valve/louvre system in the wall to allow for upstream runoff to pass through, without allowing rising stream channel levels to flood the plant. The addition of these features may affect the cost-benefit analysis for the project.
9. It was indicated during the public meeting that coastal surge with sea level rise was used for analysis, as it was more conservative than riverine flooding. We would be interested to know how the proposed floodwall performs during a joint probability analysis.

Additional comments from other Arlington County departments may also be forthcoming.

Jennifer L. Tastad, P.E.

Engineering Design Team Supervisor

Arlington County

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