



DNREC Division of Watershed Stewardship
89 Kings Highway
Dover, DE
19901
(302) 739-9921

Sediment and Stormwater Program Project Application Meeting

Project Name: Harmony at Hockessin

Meeting Date: May 11, 2020

I. Discussion Items

1. Watershed Identification

- a. TMDL Watershed/Major Basin: White Clay Creek
- b. HUC 10/HUC 8: White Clay/Brandywine/Christina

2. Groundwater Mapping

- a. Wellhead Protection Areas:
 - ☐ YES
 - ☒ NO
- b. Depth to Water Table (Wet): varies 8 to 10 feet+

3. Watershed Master Plan

- a. Does this site fall within an area served by a watershed master plan?
 - ☐ Appoquinimink WS
 - ☐ Murderkill WS
 - ☐ Upper Nanticoke WS
 - ☐ Other: _____
 - ☒ Not within an area served by a watershed master plan
- b. What special design criteria are set for this project based upon its location in a watershed having a master plan?

I. Discussion Items

4. Does the site contain tax ditches?

☐ **YES**

☒ **NO** (continue to the next item)

Tax Ditch Name	Right-of-way Information

a. Is there a proposal for changing tax ditch watershed boundaries?

☐ **YES**

☒ **NO**

b. Does the tax ditch require a court order change (COC) for development to occur as planned?

☐ **YES**

☒ **NO**

c. Additional information regarding court order change:

N/A

5. Proposed grading plan.

a. Proposed grading plan must not block drainage from offsite areas currently draining onto the site.

i. Are offsite areas currently draining onto the site?

☐ **YES**

☒ **NO**

ii. How will offsite areas draining onto the site be managed?

☐ Captured in onsite BMPs

☒ Bypassed

I. Discussion Items

- b. Disturbed areas greater than 20 acres will require engineered control practices designed for bare earth conditions for a 2-YR, 24-HR storm event.

Proposed disturbed area: ~8.5ac

6. The plan areas will be reviewed and approved by the following agency(ies):

a. Onsite areas: NCC DLU

b. Offsite roadway improvements: DeIDOT

7. Is there a proposal to discharge to a DeIDOT, municipal or private drainage system?

☐ **YES** – notice of intent to discharge must be provided to system owner

☒ **NO** (continue to next item)

8. Fees - The fees to be submitted to are as follows:
In accordance with Appendix 2 UDC

9. The Notice of Intent (NOI) and \$195 NOI fee must be submitted to DNREC prior to Sediment and Stormwater Plan approval, unless one of the following conditions is met:

☐ Project site has existing NOI (ID #: _____)

☐ Project <1.0ac disturbed

NOI Comments: .

An NOI will need to be filed.

II. Agreement Items

1. Points of Analysis (POAs)

a. Onsite points of analysis:

- ☒ POAs in accordance with SAS plan submitted
- ☐ POAs modified as follows:
- ☐ New POA(s) added as follows:

b. Offsite / downstream points of analysis based upon 10% rule:

- ☒ POAs in accordance with SAS plan submitted
- ☐ POAs modified as follows:
- ☐ New POA(s) added as follows:

2. Drainage area boundaries:

- ☒ Existing conditions drainage area boundaries in accordance with SAS drainage area plan submitted
- ☐ Modified as per project application meeting (see revised plan)

3. Existing drainage features:

- ☒ In accordance with SAS drainage features map as submitted
- ☐ Modified as per project application meeting (see marked-up plan)

4. Stormwater Quality Management

- #### a. The *Delaware Sediment and Stormwater Regulations* require that runoff reduction practices be used to meet the R_{Pv} requirements. The following runoff reduction BMPs are being considered for the site:

Bioretention and Infiltration.

- ☒ Proposed BMPs are feasible based upon Feasibility criteria in BMP Standards and Specifications.

II. Agreement Items

- b. Justification if runoff reduction practices are considered not feasible for the site:

- c. Indicate section of Regulations for complying with RPv:

- ☒ 5.2.3.1.1 Runoff reduced to equiv. wooded condition, up to maximum 1" of runoff
- ☒ 5.2.3.1.2 Runoff reduced to equiv. grassed open space condition, up to maximum 1" of runoff
- ☐ 5.5 Alternative criteria
- ☐ 5.6.2.1 Redevelopment of a contaminated site under Department approved remediation plan
- ☐ 5.6.2.3.1 Redevelopment of site with SWM system(s) IAW 1991 or later DSSR with reduction of imperviousness
- ☐ 5.6.3.4.3 Redevelopment of site with SWM system(s) IAW 1991 or later DSSR; runoff reduced to equiv. grassed open space for increased impervious area
- ☐ 5.6.2.4.1 Redevelopment resulting in 15% or greater reduction in impervious area
- ☐ 5.6.2.4.2 Redevelopment resulting in less than 15% reduction in impervious area; reduce runoff to equivalent 15% effective imp.
- ☐ 5.6.2.4.3 Redevelopment resulting in increase in imperviousness; reduce runoff to equiv. 15% effective imp. for existing impervious area; reduce runoff to equiv. grassed open space for increased impervious area

- d. List any other issues related to compliance with RPv requirements:

II. Agreement Items

5. Stormwater Quantity Management

- a. The following BMPs are being considered for stormwater quantity management for meeting the Cv and Fv requirements:

Same BMPs as for RPv.

- b. Indicate section of Regulations for complying with Cv:

- ☒ 5.3.3.1 Management for no adverse impact
- ☐ 5.3.3.2 Improve downstream conveyance system
- ☐ 5.3.3.3 Adequate conveyance of Cv to tidal discharge
- ☐ 5.3.3.4 Watershed location ("Beat the Peak")
- ☐ 5.3.3.5 Watershed location (LOD \leq 10% of upstream drainage area)
- ☐ 5.3.3.6 Site has *de minimis* discharge for Cv
- ☐ 5.5.1 Management in accordance with watershed management plan

- c. Indicate section of Regulations for complying with Fv:

- ☒ 5.4.3.1 Management for no adverse impact
- ☐ 5.4.3.2 Improve downstream conveyance system
- ☐ 5.4.3.3 Adequate conveyance of Fv to tidal discharge
- ☐ 5.4.3.4 Watershed location ("Beat the Peak")
- ☐ 5.4.3.5 Watershed location (LOD \leq 10% of upstream drainage area)
- ☐ 5.4.3.6 Site has *de minimis* discharge for Fv
- ☐ 5.5.1 Management in accordance with watershed management plan

- d. List any other issues related to compliance with the Cv or Fv requirements.

Site is within a volume watershed identified in Peterson Bill.
Requirement is still valid under law.

II. Agreement Items

6. Wetland delineation will be required for the project:

☒ **YES**

☐ **NO**

Wetland Comments:

Completed and shown on Exploratory Plans.

7. Next submittal step:

☐ Step 2 Preliminary Sediment and Stormwater Management Plan
(Include Step 2 Plan Review Checklist with submittal.)

☒ Combined Step 2/3 Preliminary and Sediment and Stormwater
Management Plan
(Include Combined Step 2/3 Checklist with submittal.)

Sediment and Stormwater Program Project Application Meeting Discussion & Agreement Items

The Preliminary Sediment & Stormwater Plan shall be based upon the discussion and agreement items from this Project Application Meeting. The Delegated Agency reserves the right to revisit the agreement items from the original Project Application Meeting if the applicant later proposes significant changes to the project which would alter the results of the original Stormwater Assessment Study (SAS). Signing below indicates presence and participation at this Project Application Meeting for the project identified in this document, as well as agreement to the items referenced in this document.

Printed Name	Company/Agency	Email address	Signature
John Gysling	NCCDLU	john.gysling@newcastlede.gov	
Justin Ohara	Duffield Associates	johara@duffnet.com	