**Office Use Only**

E & S #: _____

Plan File Name: _____ HTE #: _____

**HANOVER COUNTY, VIRGINIA**
**PUBLIC WORKS DEPARTMENT**
**CHESAPEAKE BAY PRESERVATION PROGRAM**

**Water Quality Impact Assessment (WQIA)**
(Pursuant to Hanover County Code Section 10-43)

General Project Information:

Date: 5/16/2022 Project Title: WIP III UPGRADES FOR THE DOSWELL WASTEWATER TREATMENT PLANT

GPIN: 7882-96-4321 Magisterial District: Beaverdam

Subdivision: N/A Sec: N/A Blk: N/A Lot: N/A

Owner's Name (s): HANOVER COUNTY DEPT OF PUBLIC UTILITIES

Mailing Address: PO BOX 470
HANOVER, VA 23069

Business Phone: 804-365-6005 Home Phone: _____

Mobile Phone: _____ Email: PUBLICUTILITIES@HANOVERCOUNTY.GOV

Resource Protection Area (RPA) Information:

Does the site contain any of the following (check all that apply)?

- ☐ Tidal Wetland
- ☐ Nontidal Wetland (connected by surface flow and contiguous to tidal wetlands or water bodies with perennial flow)
- ☐ Tidal Shores
- ☐ A vegetative buffer not less than 100 feet in width adjacent to and landward of the components listed above, and along both sides of any water body with perennial flow

Resource Management Area (RMA):

Does the site contain any of the following (check all that apply)?

- ☐ Floodplains
- ☐ Highly erodible soils (including steep slopes)
- ☑ Highly permeable soils
- ☐ Nontidal Wetlands (not included in RPA's)
- ☑ Within 150 feet of a RPA vegetative buffer

Required Attachments:

For individual residential lots:

- ☐ Submit a "to scale" plat depicting the location of all RPA features, 100-year flood plains, and wetland on the lot or parcel relative to all existing and proposed developments.
- ☐ Submit a signed copy, by a qualified professional, of a site-specific in-field evaluation and delineation for perennial flow based on the latest edition of guidance documents issued by the Chesapeake Bay Local Assistance Department (CBLAD).

For site plans and subdivision plans:

- ☑ Submit "to scale" field-surveyed locations of all RPA features, 100-year flood plains and wetlands on the site plan or subdivision plan.
- ☑ Submit a single copy, by a qualified professional of a site-specific in-field evaluation and delineation for perennial flow based on the latest edition of guidance documents issued by the Chesapeake Bay Local Assistance Department (CBLAD).

Plan of Development Information:

Describe the proposed use and development: HANOVER COUNTY WILL BE MAKING UPGRADES AT THE EXISTING PERMITTED DOSWELL WWTP (VPDES PERMIT NO. VA0029521). THE PLANNED UPGRADES ARE TO MEET ADDITIONAL NUTRIENT REMOVAL REQUIREMENTS ASSOCIATED WITH THE REISSUANCE OF THE VPDES PERMIT. THE UPGRADES WILL MAINTAIN THE EXISTING DESIGN FLOW OF 1.0 MGD AND INCLUDE THE CONVERSION OF PRIMARY TANKS TO AN ANOXIC ZONE, IMPROVEMENTS TO EXISTING AERATION BASINS, ADDITION OF CHEMICAL FEED BUILDINGS FOR ALUMINUM SULFATE AND METHANOL, CONSTRUCTION OF A NEW INTERMEDIATE PUMP STATION, ADDITION OF DENITRIFICATION FILTERS, ADDITION OF POST AERATION, REPLACEMENT OF AERATION BLOWERS AND GENERATOR, AND UPGRADES TO THE ELECTRICAL DISTRIBUTION SYSTEMS AND FACILITIES. THESE UPDATES RESULT IN A 3.40 AC AREA OF DISTURBANCE THAT INCLUDES ADDITIONAL BUILDINGS AND STRUCTURES, YARD PIPING, GRADING, ROAD IMPROVEMENTS.

Will there be land disturbance of any nature within a Chesapeake Bay Preservation Area? Yes

If yes, state the square footage and describe the location of disturbance: THERE WILL BE 147,354 SF (3.38 AC) OF DISTURBANCE IN THE RESOURCE MANAGEMENT AREA (RMA). NEARLY THE ENTIRE LIMITS OF DISTURBANCE FOR THIS PROJECT ARE WITHIN THE RMA DUE TO THE PRESENCE OF HIGHLY PERMEABLE SOILS. THE MOST NORTHERN CORNER OF THE SITE IS EXCLUDED FROM THE RMA. THERE IS NO RESOURCE PROTECTION AREA (RPA) DISTURBED FOR THIS PROJECT. THE LITTLE RIVER AND THE LIMITS OF THE RPA ARE JUST SOUTH OF THE PROJECT'S LIMITS OF DISTURBANCE. SEE DWG C009 FOR RPA AND RMA BOUNDARIES ON OR ADJACENT TO THE SITE.

**For any proposed development or redevelopment within a Chesapeake Bay Preservation Area (CPBA) exceeding fifty thousand (50,000) square feet of land disturbance or which disturbs any portion of the RPA, the elements of a Major Water Quality Impact Assessment (WQIA) shall be submitted along with this form in accordance with Hanover County Code Section 10-43(c)(2). Encroachment or modifications may require the submittal of a buffer mitigation plan in accordance with the latest edition of the Riparian Buffers Modification and Mitigation Guidance Manual from CBLAD.**

SEE THE ATTACHED DOCUMENTS FOR MAJOR WQIA REQUIREMENTS.

Will the proposed development require an encroachment or modification to the RPA buffer? No

If yes, describe the encroachment or modification be requested:

Will the proposed development require an exception request to either the General Performance Criteria for CBPAs or Development Criteria for RPAs (County Code Sections 10-38 or 10-40)? No

If yes, state the specific Code subsection(s) from which the exception is requested and describe the nature of the request: THE PROVISIONS OF SECTION 10-38 WILL BE UPHELD.

**For all exception requests, an exception request application shall be submitted along with this form in accordance with Hanover County Code Section 10-46.**

The applicable stormwater criteria for this project is either Section IIB (Runoff Reduction Method) or Section IIC (Chesapeake Bay Preservation Act requirements). Please check the appropriate Technical Criteria used for this project:

☑ Section IIB:

Is the project in a CBPA and over 2500 square feet and less than 1 acre? No

Is the project greater than or equal to 1 acre? Yes

**If YES to either of the conditions above, runoff reduction and channel protection computations must be submitted with plans.**

SEE DWGS C008-C009 FOR WATER QUANTITY AND WATER QUALITY COMPLIANCE INFORMATION.

☐ Section IIC:

Will the proposed development result in greater than 16% impervious cover? N/A

**If yes, calculations and worksheets from the Virginia Stormwater Management Handbook for pollutant loading must be submitted with plans.**

**For all BMPs required, submit the required design drawings and calculations for the BMP, a plan sheet clearly showing the location of all BMPs and inspection and maintenance requirements for all BMPs. The property owner must complete, sign and have notarized a Hanover County BMP Maintenance Agreement and appropriate easements based on the specific BMPS required.**

**Please note that a construction record drawing, consistent with 9 VAC 25 870-55.D, will be required prior to release of project.**

**Applicant's Information**:

Applicant's Name or Company: CHRISTOPHER TABOR, PE, HAZEN AND SAWYER

Professional License Type: PROFESSIONAL ENGINEER VA License Number: 33020

Mailing Address: 1555 ROSENEATH ROAD

RICHMOND, VA 23230

Business Phone: 804-545-5091 Home Phone: _____

Mobile Phone: _____ Email: CTABOR@HAZENANDSAWYER.COM

**Applicant's statement for Water Quality Impact Assessment:**

*I certify that I am a licensed professional in the Commonwealth of Virginia and that to the best of my knowledge, having completed a site-specific in-field evaluation and delineation of perennial flow, in my opinion the proposed development meets the requirements of Hanover County Code, Chapter 10, Article II, Chesapeake Bay Preservation.*

Applicant's Signature: _____ Date: _____

Applicant's Name (print or type): _____

**Applicant's statement for Wetlands**:

*I certify that I am a licensed professional in the Commonwealth of Virginia and that to the best of my knowledge, in my opinion the proposed development complies with the current requirements of section 404 of the Clean Water Act and state wetland regulations including the requirement that a wetlands delineation be performed and shown on the requisite plan.*

Applicant's Signature: _____ Date: _____

Applicant's Name (print or type): _____

Applicant's statement for non RPS Disturbance/RMA Disturbance:

*I certify that I am a licensed professional in the Commonwealth of Virginia and that to the best of my knowledge, in my opinion the proposed development will not result in land disturbance of any nature within a Resource Protection Area (RPA) or exceed two thousand five hundred (2,500) square feet within a Chesapeake Bay preservation Area (CBPA) and that there will be no concentrated flows into a CBPA from a disturbed area of more than two thousand five hundred (2,500) square feet to be located anywhere on the property.*

Applicant's Signature: _____ Date: _____

Applicant's Name (print or type): _____

THE DISTURBANCE WITHIN THE CBPA EXCEEDS 50,000 SQUARE FEET. SEE THE ATTACHED DOCUMENTS FOR MAJOR WQIA REQUIREMENTS.

**Office Use Only**

- ☐ Approved
- ☐ Incomplete (additional information required)
- ☐ Disapproved
- ☐ Exception required

By: _____ Date: _____

Comments: _____

_____

_____

- ☐ Approved
- ☐ Disapproved
- ☐ Exception required

By: _____ Date: _____

Comments: _____

_____

_____

Director's signature: _____ Date: _____
(or designee)