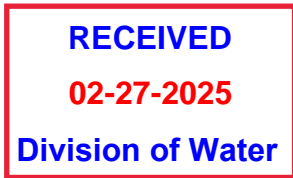


# 3021/25



Division of Water  
Commercial and Government Services Section

Department of Natural Resources  
and Environmental Control  
89 Kings Hwy  
Dover, DE 19901  
dnrec.delaware.gov

Phone: (302) 739-9946  
Fax: (302) 739-2296

## INSTRUCTIONS FOR COMPLETING THE PERMIT APPLICATION FOR THE CONSTRUCTION OF WASTEWATER COLLECTION AND CONVEYANCE SYSTEMS

The following items must accompany the application. **Please note that incomplete application packages will be returned in their entirety and not reviewed until such time as all required information is received.**

- 1. A narrative summary of the intended purpose and design of the proposed facilities.
- 2. One (1) set of final construction plans and specifications (paper copy), if applicable, signed and sealed by a Delaware-registered Professional Engineer, or a Delaware-registered Professional Land Surveyor for gravity systems only.
- 3. One (1) electronic copy of final Plans.
- 4. The final plans must be drawn to scale showing slopes, inverts, pipe types and sizes, existing and proposed ground surfaces, tops of manholes, water lines, stormwater and stream crossings, encasements shown in plan and profile, and other information if pertinent or requested.
- 5. For pump/lift stations and force mains, include all calculations and pump/performance curves.
- 6. A check made payable to the State of Delaware for eight hundred twenty-five dollars (\$825.00), the non-refundable permit review fee. This fee covers the initial review and one follow-up review of any corrections or changes made to address the Division's comments. An additional eight hundred twenty-five dollars (\$825.00) non-refundable review fee must be submitted for resubmission of the plans if changes are made to the project which trigger a complete review of the permit application.
- 7. Your permit will have a public notice requirement if your system includes force mains or pump/lift stations. Include a check made payable to the State of Delaware for three hundred dollars (\$300.00) for the reimbursement of legal notices if the system has a force main connection or a pump/lift station.
- Please submit the completed application package, as outlined above, to DE DNREC, Division of Water, Commercial and Government Services Section, 89 Kings Highway, Dover, DE 19901. Please note, a new application, including the review fee, must be submitted if the Division's comments are not addressed or if requested supplemental information is not provided within one (1) year of the comment or request date.
- The following items must be submitted prior to permit issuance:
- 8. Verification from the appropriate county or municipal planning authority that the project has the proper zoning approval.
- 9. A letter from the owner/operator of the wastewater facilities to which the proposed collection and conveyance facilities connect. The letter must include confirmation that the owner/operator has approved the project, that the owner/operator will take responsibility for treating and disposing of the wastewater to be conveyed and that the downstream facilities have the capacity to manage the additional flows without causing or contributing to violations of Delaware's Environmental Protection Act (7 Del. C., Chapter 60) and the regulations promulgated thereafter. This includes, but is not limited to, unauthorized discharges such as overflows at manholes and violations of the treatment system's operating permit (for example, the National Pollutant Discharge Elimination System (NPDES) permit).

- Visit us on the web at: <https://dnrec.delaware.gov/water/commercial-government/>

9. Latest comment letter enclosed and email from Town Engineer requesting WPCC permit at this time.

see  
below

**APPLICATION FOR THE CONSTRUCTION OF  
WASTEWATER COLLECTION AND CONVEYANCE SYSTEMS**

Application must be complete, typewritten or clearly printed

Date Application Submitted 2/25/2025

PROJECT INFORMATION			
Project Name and Location/ Address Kingfisher Court CALHOUN ST Town of Georgetown Sussex County, DE			
Tax Parcel Number(s) 135-14.16-69.00, 135-14.16-70.00, & 135-14.00-100.00			
County <input type="checkbox"/> Kent <input type="checkbox"/> New Castle <input checked="" type="checkbox"/> Sussex		Watershed (www.dnrec.delaware.gov/swc/wa/Pages/WatershedAssessment.aspx) <input type="checkbox"/> Chesapeake Bay <input checked="" type="checkbox"/> DE Bay/Estuary <input type="checkbox"/> Inland Bays/Atl Ocean <input type="checkbox"/> Piedmont	
Sewer District or Interceptor Town of Georgetown		Wastewater Treatment/Disposal Facility Name Town of Georgetown Spray Irrigation	
Anticipated Construction Start Date 6/1/2025		Treatment/Disposal Facility Owner and Operating Permit Number Town of Georgetown DEN 359297-09	
Please note, construction permits expire three (3) years from the date of permit issuance.			
Are you requesting plan review and comment or <u>WPCC Construction Permit issuance?</u> (circle one)			
Design Flow (gallons/day) Average 20,700		Peak 51,750	Peak Factor Average x2.5
Basis of Design Code of the Town of Georgetown 176-48			
Description Multifamily 35 3BR x 1.0 + 35 2BR x 0.80 + 36 1BR x 0.75 + Clubhouse = 92 EDU 92 EDU x 225 gal/day/EDU = 20,700 gpd			
OWNER/DEVELOPER			
Company Name Apennine Development Co LLC			
Mailing Address 300 Delaware Ave; Suite 1370			
City Wilmington		State DE	Zip 19801
Contact Name Michael Scali			
E-Mail Address mscali@apenninedev.com			
Telephone	Cell		Fax

<b>ENGINEER</b>						
Company Name <b>A.H. Davenport LLC</b>						
Mailing Address <b>PO Box 430</b>						
City <b>Hockessin</b>		State		Zip		
Contact Name <b>Colin Kraucunas</b>						
E-Mail Address <b>Colin@AHDavenport.com</b>						
Telephone <b>302.889.6014</b>		Cell		Fax		
<b>GRAVITY SEWER INFORMATION</b>						
Ownership <input checked="" type="checkbox"/> Public <input type="checkbox"/> Private		Type of Sewer System <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other?			If Other, list below	
Type of Pipe <b>ductile iron</b>		Length (ft) <b>0 (existing)</b>	Diameter (in) <b>8</b>	Joint Specification <b>flanged</b>	Min. Slope (ft/ft) <b>0.0023 (existing)</b>	Min. Velocity (ft/sec) <b>1.2</b>
Minimum Pipe Cover (ft) <b>1.63 (existing)</b>		Number of Manholes <b>0 (existing)</b>	Drop manholes provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Maximum Distance Between Manholes (ft) <b>205 (existing)</b>	
Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			If not, explain provisions to prevent cross-contamination:			
Explain any special challenges (for example, stream, highway and/or railroad crossings, directional drilling, elevated sewers, etc.) <b>Shallow existing sewer required the use of private eOne pumps for the proposed apartments.</b>						
Comments <b>As detailed on the plans, the common private forcemain varies from 1.5" to 3" HDPE prior to connecting to the existing 8" ductile iron gravity public sewer main.</b>						

**PUMP/LIFT STATION INFORMATION**

Ownership <input type="checkbox"/> Public <input checked="" type="checkbox"/> Private		Type of Wastewater <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other?		If Other, list below	
Pump Station Flows (gallons/day) Design 20,700 to 12 duplex eOne pump tanks		Average 1,725 gpd per tank	Peak 44.00 gpm	Peak Factor based on 4 eOne pumps flowing simultaneously	
Basis of Design eOne pump standards			Pump Type eOne W Series 1HP		
Will peak flows be accommodated if largest unit fails? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Pump calc's and pump curves attached? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Cycle Time (minutes)		Wet Well Detention Time (minutes) tanks sized for 8 hours emergency storage per Town requirements
Check valves provided on discharge line? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Gate valves provided on discharge line? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		
If not, explain alternate procedure:					
Ventilation provided in wet well? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Dry Well? <input type="checkbox"/> Yes <input type="checkbox"/> No N/A	Is an alarm system included? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Alternate source of power? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
What other provisions for emergency operations? Duplex pump system. Tanks sized for 8 hours emergency storage per Town requirements. Pumps may be run via generator.					
Height of Influent Above Pump (suction head) (ft) 1.5		Height of Effluent Above Pump (discharge head) (ft) 4.3		Friction Loss (ft)	
Pump Design Point	Pump Operating Point	Static Head (ft) ±10.00	Total Head (ft) 13.90		Required Motor Horsepower (hp) 1
<b>FORCE MAIN INFORMATION</b>					
Type of Pipe SDR 11 HDPE		Length (ft) ±800		Diameter (in) varies 1.5 to 3	
Hazen-Williams "C" Design Factor	Type of Joints	Velocity Under Design Conditions (ft/sec) 3.72		Minimum Pipe Cover (ft) 3	
Air relief valves specified? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Clean-outs provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Maximum distance between clean-outs (ft)		
Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		If not, explain provisions to prevent cross-contamination:			
Comments					

**RECEIPT**

	February 27th, 2025			<b>38</b>	
<i>RCVD FROM</i>	Apennine Development Co., LLC			\$825.00	
	Eight Hundred twenty-five dollars and 00/100			<i>DOLLARS</i>	
<i>FOR</i>	Plan review fee WPCC 3021/25 Kingfisher Court				
<i>ACCT</i>	\$	825.00	x	<i>CHECK #</i>	3232
<i>PAYMENT</i>	\$	825.00		<i>CASH</i>	
	\$	-		<i>OTHER</i>	BY <i>Kevin Bronson</i>

DNREC, Commercial & Government Services Section, 89 Kings Hwy, Dover, DE 19901

**RECEIPT**

	February 27th, 2025			<b>39</b>	
<i>RCVD FROM</i>	Apennine Development Co., LLC			\$300.00	
	Three Hundred Dollars and 00/100			<i>DOLLARS</i>	
<i>FOR</i>	WPCC Public Notice Reimbursement 3021/25				
<i>ACCT</i>	\$	300.00	x	<i>CHECK #</i>	3133
<i>PAYMENT</i>	\$	300.00		<i>CASH</i>	
	\$	-		<i>OTHER</i>	BY <i>Kevin Bronson</i>

DNREC, Commercial & Government Services Section, 89 Kings Hwy, Dover, DE 19901