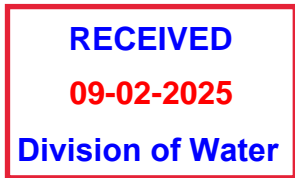


3071/25



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/>

APPLICATION FOR THE CONSTRUCTION OF WASTEWATER COLLECTION AND CONVEYANCE SYSTEMS

Application must be complete, typewritten or clearly printed

Date Application Submitted 8/29/2025

PROJECT INFORMATION			
Project Name and Location/ Address The Manor at 6060 6060 Limestone Road Hockessin, DE 19707			
Tax Parcel Number(s) 08-018.00-066 & 08-018.00-019			
County <input type="checkbox"/> Kent <input checked="" type="checkbox"/> New Castle <input type="checkbox"/> Sussex		Watershed (www.dnrec.delaware.gov/swc/wa/Pages/WatershedAssessment.aspx) <input type="checkbox"/> Chesapeake Bay <input type="checkbox"/> DE Bay/Estuary <input type="checkbox"/> Inland Bays/Atl Ocean <input checked="" type="checkbox"/> Piedmont	
Sewer District or Interceptor New Castle County		Wastewater Treatment/Disposal Facility Name Wilmington Wastewater Treatment Plant	
Anticipated Construction Start Date 9/1/2025		Treatment/Disposal Facility Owner and Operating Permit Number DeIDOT Utility Permit NC-0024-25C	
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 16,000 gpd		Peak 64,000 gpd	
		Peak Factor 4.0	
Basis of Design 80 apartments x 200 gpd/unit			
Description Existing site contains a residential structures that will be removed. The subject proposed Record Major Land Development plan includes a new 3-story 83,050 square foot Age-restricted institutional residential Type 2 facility. Proposed sewer service includes 1130 linear feet of 2" force main pumped to 300 linear feet of 8" gravity sewer and flowing to an existing manhole in the DeIDOT R.O.W.			
OWNER/DEVELOPER			
Company Name Delaware Valley Development Group			
Mailing Address 5718 Kennett Pike			
City Wilmington		State DE	
		Zip 19807	
Contact Name Eden Roberts			
E-Mail Address eahrens@dvdc.com			
Telephone (302) 235-2500		Cell n/a	
		Fax n/a	

ENGINEER					
Company Name Apex Engineering, Inc.					
Mailing Address 27 W. Market Street					
City Newport			State DE		Zip 19804
Contact Name Meredith Wickersham, P.E.					
E-Mail Address mwickersham@apexengineeringinc.com					
Telephone (302) 994-1900 x5		Cell		Fax (302) 994-9099	
GRAVITY SEWER INFORMATION					
Ownership <input type="checkbox"/> Public <input checked="" type="checkbox"/> Private		Type of Sewer System <input type="checkbox"/> Residential <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other?		If Other, list below	
Type of Pipe SDR-26 PVC	Length (ft) 300	Diameter (in) 8	Joint Specification ASTM D2564	Min. Slope (ft/ft) 0.005 ft/ft	Min. Velocity (ft/sec) 2 ft/s
HDPE DR-11	11" 0	2	N/A	N/A	N/A
Minimum Pipe Cover (ft) 3.5	Number of Manholes 1	Drop manholes provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Maximum Distance Between Manholes (ft) 300 required, 300 provided	
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.) none					
Comments					

PUMP/LIFT STATION INFORMATION				
Ownership <input type="checkbox"/> Public <input checked="" type="checkbox"/> Private		Type of Wastewater <input type="checkbox"/> Residential <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other?		If Other, list below
Pump Station Flows (gallons/day) Design 64,000 gpd		Average 16,000 gpd	Peak 64,000 gpd	Peak Factor 4.0
Basis of Design 80 apartments x 200 gpd/unit			Pump Type Grinder	
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 checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Cycle Time (minutes) 8.7 (avg); 48.4 (peak)
		Wet Well Detention Time (minutes) 6.6 (avg); 1.6 (peak)		
Check valves provided on discharge line? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No			Gate valves provided on discharge line? <input checked="" type="checkbox"/> Yes <input 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 checked="" type="checkbox"/> No		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?				
Height of Influent Above Pump (suction head) (ft)		Height of Effluent Above Pump (discharge head) (ft) See calculations		Friction Loss (ft) See calculations
Pump Design Point 44.4 gpm	Pump Operating Point 46 gpm @ 96' TDH	Static Head (ft) 40.18	Total Head (ft) 96	Required Motor Horsepower (hp) 5
FORCE MAIN INFORMATION				
Type of Pipe DR-11 HDPE		Length (ft) 1130		Diameter (in) 2
Hazen-Williams "C" Design Factor 140	Type of Joints		Velocity Under Design Conditions (ft/sec) 4.8	Minimum Pipe Cover (ft) 3.5
Air relief valves specified? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Clean-outs provided? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Maximum distance between clean-outs (ft) 211.7	
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		September 2nd, 2025			135	
	RCVD FROM	Delaware Valley Development Company			\$825.00	
		Eight Hundred twenty-five dollars and 00/100			DOLLARS	
	FOR	Plan review fee WPCC 3071/25 The Manor at 6060				
	ACCT	\$	825.00	x	CHECK #	11749
	PAYMENT	\$	825.00		CASH	
		\$	-		OTHER	BY Kevin Bronson
	DNREC, Commercial & Government Services Section, 89 Kings Hwy, Dover, DE 19901					

RECEIPT		September 2nd, 2025			136	
	RCVD FROM	Delaware Valley Development Company			\$300.00	
		Three Hundred Dollars and 00/100			DOLLARS	
	FOR	WPCC Public Notice Reimbursement 3071/25				
	ACCT	\$	300.00	x	CHECK #	11750
	PAYMENT	\$	300.00		CASH	
		\$	-		OTHER	BY Kevin Bronson
	DNREC, Commercial & Government Services Section, 89 Kings Hwy, Dover, DE 19901					