

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

Division of Water Commercial and Government Services Section

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/

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Phone: (302) 739-9946

Fax: (302) 739-2296

APPLICATION FOR THE CONSTRUCTION OF WASTEWATER COLLECTION AND CONVEYANCE SYSTEMS Application must be complete, typewritten or clearly printed

May 14, 2025 Date Application Submitted

PROJECT INFORMATION									
Project Name and Location/ Addre									
Abbey Creek - 380 Green Giant Road, Townsend, DE 19734									
Tax Parcel Number(s)									
p/o 23-055.00-001									
County		Watershed (www.dnrec.delaware.gov/swc/wa/Pages/WatershedAssessment.aspx)							
☐ Kent ☐ New Castle ☐ Su	issex	☐ Chesapeake Bay ☑ DE Bay/Estuary ☐ Inland Bays/Atl Ocean ☐ Piedmont							
Sewer District or Interceptor		Wastewater Treatment/Disposal Facility Name							
Anticipated Construction Start Da	te	Treatment/Disposal Facility Owner and Operating Permit Number							
Please note, construction permits expire three (3) years from the date of permit issuance.									
Are you requesting plan review and comment of WPCC Construction Permit issuance (circle one)									
Design Flow (gallons/day) Average Peak Peak Factor Basis of Design									
Average	277,28	-	4						
57,260	5								
Description									
		OWNER/DI	EVELOPER						
Company Name									
Mckee Builders, LLC.									
Mailing Address	004								
940 West Sproul Road, Suite 301									
City		State	1						
Springfield			PA	19064					
Contact Name									
Brian Luse E-Mail Address									
bluse@mckeegroup.net									
Telephone Cell Fax									
610-604-9800									
310-004-3000									

ENGINEER									
Company Name									
Morris & Ritchie Associates, Inc.									
Mailing Address									
111 Ruthar Drive									
City State Zip									
Newark DE 19711									
Contact Name									
Frank Peno									
E-Mail Address									
FPerno@mragta.com	l								
Telephone		Cell			Fax				
302-326-2200									
GRAVITY SEWER INFORMATION									
Ownership	Type of Sewer System				If Other, list below				
☑ Public ☐ Private	☑ Residential [☐ Commercia	l □ Indi	ustrial □ Other?					
Type of Pipe	Length (ft) Diameter (in)		Join	Joint Specification		Slope (ft/ft)	Min. Velocity (ft/sec)		
PVC (SDR-26) PVC (SDR-26)	17,652 956	8 10	Pu	sh On	0.00	5	2.0		
DIP DIP	392 20	8							
Minimum Pipe Cover (ft)				anholes provided?	Maxii	ween Manholes (ft)			
4 127		☑ Yes		□ No	300				
Minimum ten foot (10') ho	If no	If not, explain provisions to prevent cross-contamination:							
vertical separation from water lines maintained?									
☑ Yes ☐ No		b:-b	1/		·4:	-1 4.:11:14-4	1		
Explain any special challenges (for example, stream, highway and/or railroad crossings, directional drilling, elevated sewers, etc.)									
Comments									

PUMP/LIFT STATION INFORMATION											
Ownership	Type of Wastewater							If Other, list below			
☑ Public ☐ Private	☑ Resid										
Pump Station Flows (gallon						Peak Factor					
Design 1,152,000 gpd	_	Average Peak									
	211,263 }	277,285 gpd 1,109,140 gpd						4			
Basis of Design Hazen-Williams						Pump Type FLYGT Model N3301 HT 3~468, 85hp					
Will peak flows be accommodated if Pump						Cycle Time (minutes)			Wet Well Detention Time		
			es attached? Yes No			10			(minutes)		
				Gate valves provided on			11.6				
Check valves provided on discharge line? X Yes □ No				X Yes □ No			discharge line:				
	redure:					E 103 E 110	•				
If not, explain alternate procedure:											
Ventilation provided in wet	well?	Dry '	Well?	Vell? Is an alarm system include			ded?	ded? Alternate source of power?			
ĭ Yes □ No		□Y	Yes ⊠ No			ĭ Yes □ No			ĭ Yes □ No		
What other provisions for e	mergency o	peratio	ons?								
Emergency bypass pump co	onnection										
Height of Influent Above Pump Height				ght of Effluent Above Pump Charge head) (ft)			Friction Loss (ft)				
1.5				3.6			90.7				
Pump Design Point	Pump Operating Point			t Static Head (ft) Total H			lead (ft)	Required Motor			
900 @ 1246	000 0 1040			33.6					Horsepower (hp)		
					127			85hp			
FORCE MAIN INFORMATION											
Type of Pipe						Length (ft)	Diameter (in)				
HDPE DIPS DR 11					13,229			10			
Hazen-Williams "C" Design Type of Joints Factor			Velocity Under Design Conditions (ft/sec)				Minimum Pipe Cover (ft)				
140	Butt Welded				4.78			3.5			
Air relief valves specified?	Clean-outs provided?					Maximum distance between clean-outs (ft)					
☑ Yes ☐ No				400ft							
Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained?					If not, explain provisions to prevent cross-contamination:						
ĭ Yes □ No											
Comments											