

3073/25



RECEIVED
09-09-2025
Division of Water

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.
- n/a ☐ 2. One (1) set of electronic (no paper) final construction plans and specifications, if applicable, signed and sealed by a Delaware-registered Professional Engineer, or a Delaware-registered Professional Land Surveyor for gravity systems only.
- ☒ 3. 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.
- ☒ 4. For pump/lift stations and force mains, include all calculations and pump/performance curves.
- ☒ 5. 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.
- ☒ 6. 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:
- n/a ☒ 7. Verification from the appropriate county or municipal planning authority that the project has the proper zoning approval.
- ☒ 8. 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 August 28, 2025

PROJECT INFORMATION			
Project Name and Location/ Address Progressive Design-Build Project for Piney Neck Wastewater Facility Diversion Transmission System Sussex County, Delaware near Dagsboro			
Tax Parcel Number(s) See Attached Tax Map Number Listing			
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 type="checkbox"/> DE Bay/Estuary <input checked="" type="checkbox"/> Inland Bays/Atl Ocean <input type="checkbox"/> Piedmont	
Sewer District or Interceptor		Wastewater Treatment/Disposal Facility Name South Coastal Regional Wastewater Facilities	
Anticipated Construction Start Date Summer/Fall 2028		Treatment/Disposal Facility Owner and Operating Permit Number SCRWF Owner: Sussex County SCRWF Operating Permit (NPDES): DE 0050008	
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 979 (min)		Peak -	Peak Factor -
Basis of Design -			
Description See attached Narrative Summary and Design Calculations			
OWNER/DEVELOPER			
Company Name Sussex County			
Mailing Address Sussex County Administrative Office Building, 3rd Floor 2 The Circle, P.O. Box 589			
City Georgetown		State Delaware	Zip 19947
Contact Name Michael Harmer, County Engineer			
E-Mail Address Michael.Harmer@sussexcountype.gov			
Telephone 302-855-7718		Cell	Fax

ENGINEER					
Company Name GHD, Inc.					
Mailing Address 16701 Melford Blvd, Suite 221					
City Bowie		State Maryland		Zip 20715	
Contact Name Phillip Dieckmann, P.E.					
E-Mail Address phillip.dieckmann@ghd.com					
Telephone		Cell 803-582-8642		Fax	
GRAVITY SEWER INFORMATION					
Ownership <input type="checkbox"/> Public <input type="checkbox"/> Private		Type of Sewer System <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other?		If Other, list below	
Type of Sewer	Length (ft)	Diameter (in)	Joint Specification	Min. Slope (ft/ft)	Flow Velocity (ft/sec)
Minimum Pipe Cover (ft)	Number of Manholes	Drop manholes provided? <input type="checkbox"/> Yes <input type="checkbox"/> No		Minimum Distance Between Manholes (ft)	
Minimum ten foot (10') horizontal & eighteen inch vertical separation from water lines maintained? <input type="checkbox"/> Yes <input type="checkbox"/> No			If not, explain actions to prevent cross-contamination:		
Explain any special challenges (for example, stream, highway, railroad crossings, directional drilling, elevated sewers, etc.)					
Comments					

PUMP/LIFT STATION INFORMATION				
<input type="checkbox"/> Public Sewerage <input type="checkbox"/> Public Wastewater	Type of Wastewater <input type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other?		If Other, list below	
Pump Station Design (Millions/day) Average		Peak	Peak Factor	
Basis of Design		Pump Type		
Will peak flows be accommodated if largest unit fails? <input type="checkbox"/> Yes <input type="checkbox"/> No	Will pumps and pump controls be provided? <input type="checkbox"/> Yes <input type="checkbox"/> No	Cycle Time (minutes)	Wet Well Detention Time (minutes)	
Check valves provided on discharge line? <input type="checkbox"/> Yes <input type="checkbox"/> No		Check valves provided on discharge line? <input type="checkbox"/> Yes <input type="checkbox"/> No		
If not, explain alternate procedure:				
Ventilation provided in wet well? <input type="checkbox"/> Yes <input type="checkbox"/> No	Dry Well Ventilation? <input type="checkbox"/> Yes <input type="checkbox"/> No	Is an alarm system provided? <input type="checkbox"/> Yes <input type="checkbox"/> No	Alternate source of power? <input type="checkbox"/> Yes <input type="checkbox"/> No	
What other provisions for emergency situations?				
Height of Influent Above Pump (suction head) (ft)		Height of Effluent Above Pump (discharge head) (ft)		Friction Loss (ft)
Pump Operating Point	Pump Operating Point	Static Head (ft)	Total Head (ft)	Required Horsepower (hp)
FORCE MAIN INFORMATION				
Type of Pipe HDPE DR9		Length (ft) 29,508	Diameter (in) 12-inch	
Hazen-Williams "C" Design Factor 120	Type of Joints Bell with elastomeric seal gasket and mechanical restrained joints; and Fused Joint	Velocity Under Design Conditions (ft/sec) 2.78	Minimum Pipe Cover (ft) 3 ft	
Air relief valves specified? <input checked="" type="checkbox"/> Yes <input 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 None				

	Property ID
1	134-15.00-91.02
2	134-15.00-19.00
3	134-15.00-19.02
4	134-15.00-7.12
5	134-15.00-7.11
6	134-15.00-7.00
7	134-15.00-6.06
8	134-15.00-17.14
9	134-15.00-5.03
10	134-15.00-5.02
11	134-15.00-5.01
12	134-15.00-1.00
13	134-14.00-21.01
14	134-14.00-21.07
15	134-10.00-94.02
16	134-10.00-94.01
17	134-10.00-93.00
18	134-10.00-88.00
19	134-10.00-62.10
20	134-10.00-62.08
21	134-10.00-62.05
22	134-10.00-62.03
23	134-1.00-62.09
24	134-10.00-62.14
25	134-10.00-62.06
26	134-10.00-52.00
27	134-10.00-52.02
28	134-10.00-51.00
29	433-2.00-1.00
30	433-2.00-7.02
31	433-2.00-2.00
32	233-12.00-28.00
33	233-11.00-198.00
34	233-11.00-196.00
35	233-11.00-181.00
36	233-11.00-176.00
37	233-11.00-175.01
38	233-11.00-172.00
39	233-11.00-109.00
40	233-11.00-78.01
41	233-11.00-83.00
42	233-11.00-80.00

RECEIPT

	September 9th, 2025				140	
RCVD FROM	Garney Construction				\$1,125.00	
	One Thousand One Hundred Twenty Five Dollars and DOLLARS					
FOR	WPCC 3073/25 Legal notice and permit application fee					
	Piney Neck Wastewater Facility Diversion					
ACCT	\$	1,125.00	x	CHECK #	8727	
PAYMENT	\$	1,125.00		CASH		
	\$	-		OTHER	BY	Kevin Bronson

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