



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

Division of Water
Commercial and Government Services Section

Phone: (302) 739-9948

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. **REFER TO INCLUDED CD**
- ☒ 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 two thousand and five hundred dollars (\$2500.00), 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 two thousand and five hundred dollars (\$2500.00) 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. **PROVIDED TOWN PRELIM 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 _____

PROJECT INFORMATION			
Project Name and Location/ Address SCARLET OAKS SUBDIVISION (163 UNITS) SHINGLE POINT ROAD MILTON DE 19968			
Tax Parcel Number(s) 235-20.00-63.02			
County ☐ Kent ☐ New Castle ☒ Sussex		Watershed (www.dnrec.delaware.gov/swc/wa/Pages/WatershedAssessment.aspx) ☐ Chesapeake Bay ☒ DE Bay/Estuary ☐ Inland Bays/Atl Ocean ☐ Piedmont	
Sewer District or Interceptor		Wastewater Treatment/Disposal Facility Name SRRF (Sussex Regional Recharge Facility)	
Anticipated Construction Start Date JANUARY, 2027		Treatment/Disposal Facility Owner and Operating Permit Number Artesian Wastewater Management, Inc. Operating Permit #: 359288-02	
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 45,780		Peak 183,120	Peak Factor 4.0
Basis of Design ACCUMULATED EDUs			
Description Residential Subdivision (163 Lots) Wastewater collection, conveyance System to proposed Pump Station on site			
OWNER/DEVELOPER			
Company Name RIBERA DEVELOPMENT, LLC			
Mailing Address 8684 VETERANS HIGHWAY, SUITE 203			
City MILLERSVILLE		State MD	Zip 21108
Contact Name JOHN STAMATO			
E-Mail Address johnstamato@riberadev.com			
Telephone 443-871-0486		Cell 	
		Fax 	

ENGINEER					
Company Name PENNONI ASSOCIATES INC					
Mailing Address 18072 DAVIDSON DRIVE					
City MILTON			State DE		Zip 19968
Contact Name ALAN DECKTOR					
E-Mail Address ADECKTOR@PENNONI.COM					
Telephone 302 684 8030		Cell		Fax	
GRAVITY SEWER INFORMATION					
Ownership ☒ Public ☐ Private		Type of Sewer System ☒ Residential ☐ Commercial ☐ Industrial ☐ Other?		If Other, list below	
Type of Pipe PVC SDR 26	Length (ft) 4,342.20+/-	Diameter (in) 8 INCH	Joint Specification PUSH ON	Min. Slope (ft/ft) 0.0028	Min. Velocity (ft/sec) 2
PVC SDR-21 C900	26.00+/-	10 INCH	PUSH ON	0.0028	2
PVC SDR-21 C900	1,907.00 +/-	8 INCH	PUSH ON	0.0028	2
Minimum Pipe Cover (ft) 4.0	Number of Manholes 54	Drop manholes provided? ☒ Yes ☐ No		Maximum Distance Between Manholes (ft) 400	
Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained? ☒ Yes ☐ 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.) STATE ROAD CROSSED BY INSTALLING STEEL SLEEVE USING JACK AND BORE METHODS					
Comments					

PUMP/LIFT STATION INFORMATION				
Ownership ☒ Public ☐ Private		Type of Wastewater ☒ Residential ☐ Commercial ☐ Industrial ☐ Other?		If Other, list below
Pump Station Flows (gallons/day) Design 45,780		Average 45,780	Peak 183,120	Peak Factor 4.0
Basis of Design ACCUMULATED EDUs			Pump Type SUBMERSIBLE CENTRIFICAL	
Will peak flows be accommodated if largest unit fails? ☒ Yes ☐ No		Pump calc's and pump curves attached? ☒ Yes ☐ No		Cycle Time (minutes) 10
		Wet Well Detention Time (minutes) 7.5		
Check valves provided on discharge line? ☒ Yes ☐ No			Gate valves provided on discharge line? ☒ Yes ☐ No	
If not, explain alternate procedure:				
Ventilation provided in wet well? ☒ Yes ☐ No		Dry Well? ☐ Yes ☒ No		Is an alarm system included? ☒ Yes ☐ No
Alternate source of power? ☒ Yes ☐ No				
What other provisions for emergency operations? 30 HRS EMERGENCY STORAGE WITH AVERAGE DAY FLOW				
Height of Influent Above Pump (suction head) (ft) 2.5 FT		Height of Effluent Above Pump (discharge head) (ft) 34.22 FT		Friction Loss (ft) 19.08 FT
Pump Design Point	Pump Operating Point	Static Head (ft) 34.22 FT	Total Head (ft) 53.3 FT	Required Motor Horsepower (hp) 4.0
FORCE MAIN INFORMATION				
Type of Pipe C900 PVC		Length (ft) 2,450+/- FT 900+/- FT 900+/- FT		Diameter (in) 4 INCH 6 INCH 8 INCH
Hazen-Williams "C" Design Factor 150	Type of Joints PUSH ON		Velocity Under Design Conditions (ft/sec) 2.45 FPS	Minimum Pipe Cover (ft) 4 FEET
Air relief valves specified? ☒ Yes ☐ No		Clean-outs provided? ☐ Yes ☒ No		Maximum distance between clean-outs (ft)
Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained? ☒ Yes ☐ No		If not, explain provisions to prevent cross-contamination:		
Comments				