



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.
- ☒ 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. [Atwell LLC Ck# 318235 8/11/2026](#)
- ☒ 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. [Town of Camden provided](#)
- ☒ 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 Savannah Farms Willow Grove Road Camden, DE			
Tax Parcel Number(s) 7-20-09400-01-1000-00001; 7-02-09304-01-0100-00001, 0200-00001, 0300-00001; 7-02-09400-01-2100-00001, 3300-00001, 3400-00001, 3500-00001			
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 Kent County pressure sewer	Wastewater Treatment/Disposal Facility Name Kent County RRRF		
Anticipated Construction Start Date Fall 2026	Treatment/Disposal Facility Owner and Operating Permit Number Kent County - 0020338		
Please note, construction permits expire three (3) years from the date of permit issuance.			
Are you requesting plan review and comment or WPCC Construction Permit issuance? (circle one)			
Design Flow (gallons/day) Average 1,114 units + 520 future Site: 1,114x250 = 278,500 gpd Future: 520 add = 418,500 gpd	Peak Site: 974,550 gpd/677 gpm Future: 1,464,750 gpd/1,071 gpm	Peak Factor 3.5	Basis of Design Site: 1,114 units @ 250 gpd/unit Future: 520 units @ 250 gpd/unit
Description Savannah Farms is a mixed residential subdivision consisting of a total of 1,114 units. Mix provided single family detached, semi-detached (twins), attached (townhouses) lots, and apartments in 10 buildings containing 24 or 36 units. Two submersible pump stations will be constructed to convey sewage from the to the existing CWSWA and Kent County force main transmission system.			
OWNER/DEVELOPER			
Company Name Atlantic Holdings Group / Atlantic Site Construction			
Mailing Address 688 Cross Street, Office A			
City Lakewood	State NJ	Zip 08701	
Contact Name Yaakov Pinter - Project Manager			
E-Mail Address yaakov@atlanticsitenj.com			
Telephone 732-363-5252 x32	Cell 732-338-7633		Fax

ENGINEER					
Company Name Atwell, LLC					
Mailing Address 17 Polly Drummond Center, Suite 201					
City Newark		State DE		Zip 19711	
Contact Name Mike Kaszyski, P.E.					
E-Mail Address mkaszyski@atwell.com					
Telephone 302-369-2900		Cell 215-237-8175		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) 29,329 1,348	Diameter (in) 8 10	Joint Specification gasketed bell-spigot	Min. Slope (ft/ft) 0.0050 0.0028	Min. Velocity (ft/sec) 2.0
DIP CL 50	3,407 3,149	8 10	gasketed push on	0.0050 0.0028	2.0 2.0
	38	12		0.0020	2.0
Minimum Pipe Cover (ft) 5	Number of Manholes 242	Drop manholes provided? ☒ Yes ☐ No		Maximum Distance Between Manholes (ft) 300	
Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained? ☒ Yes ☐ No			If not, explain provisions to prevent cross-contamination: Where vertical separation is less than 18 inches, concrete encasement is provided		
Explain any special challenges (for example, stream, highway and/or railroad crossings, directional drilling, elevated sewers, etc.) Force main from Pump Station A will cross adjoining Norfolk Southern Railroad. Line will be drilled under the railroad. Applications have been made to NS/Carload Express, and these are nearing final approval.					
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 250 gpd/unit		Average PS-A: 611 units - 152,750 gpd PS-B: 226+520 = 186,500 gpd PS-C: 277 units - 69,250 gpd	Peak PS-A: 181 gpm PS-B: 221 gpm PS-C: 97 gpm	Peak Factor PS-A: 1.7 PS-B: 1.7 PS-C: 2.0
Basis of Design $Q_{peak} = (20 + 2 [EDU/10]^{1/2}) / Q_{avg} (5 + 2 [EDU/10]^{1/2})$			Pump Type Flygt Submersible. PS-A 35 HP, PS-B 35 HP, PS-C 35 HP	
Will peak flows be accommodated if largest unit fails? ☒ Yes ☐ No		Pump calc's and pump curves attached? ☒ Yes ☐ No		Cycle Time (minutes) 20 minutes initial, 8 minutes full site buildout
		Wet Well Detention Time (minutes) 40 minutes		
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? CWSWA requests portable generator with a transfer switch connection.				
Height of Influent Above Pump (suction head) (ft) PS-A - 5.5 PS-B - 5.5 PS-C - 4.5		Height of Effluent Above Pump (discharge head) (ft) PS-A - 15 PS-B - 20 PS-C - 16		Friction Loss (ft) PS-A - 3.3 PS-B - 6.3 PS-C - 0.1
Pump Design Point PS-A - 181 gpm PS-B - 221 gpm PS-C - 97 gpm	Pump Operating Point PS-A - 191.5 gpm @ 187.3' PS-B - 224 gpm @ 191.2' PS-C - 99.7 gpm @ 175.9'	Static Head (ft) PS-A - 184.0 PS-B - 184.9 PS-C - 175.1	Total Head (ft) PS-A - 187.3 PS-B - 191.2 PS-C - 175.9	Required Motor Horsepower (hp) PS-A - 35 PS-B - 35 PS-C - 35
FORCE MAIN INFORMATION				
Type of Pipe C-900 PVC		Length (ft) 6-inch: 4,112 LF 8-inch 1,013 LF on site 8-inch: 7,136 LF off site		Diameter (in) 6-inch - PS-A, B and C 8-inch - Common
Hazen-Williams "C" Design Factor 140	Type of Joints gasketed push on MJ		Velocity Under Design Conditions (ft/sec) PS-A - 2.1 PS-B - 2.4 PC-C - 2.0	Minimum Pipe Cover (ft) 3.5
Air relief valves specified? ☒ Yes ☐ No	Clean-outs provided? ☒ Yes ☐ No		Maximum distance between clean-outs (ft) 500	
Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained? ☒ Yes ☐ No		If not, explain provisions to prevent cross-contamination: Where vertical separation is less than 18 inches, concrete encasement is provided		
Comments				