



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) 739-9946  
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 12/19/2025

PROJECT INFORMATION			
Project Name and Location/ Address Silver View Farm 994 Vance Neck Rd, Middletown, DE 19709 NCC DPW WO #551600 NCC Application Number: 2022-0500			
Tax Parcel Number(s) 13-019.00-005			
County <input type="checkbox"/> Kent <input checked="" type="checkbox"/> New Castle <input type="checkbox"/> Sussex		Watershed ( <a href="http://www.dnrec.delaware.gov/swc/wa/Pages/WatershedAssessment.aspx">www.dnrec.delaware.gov/swc/wa/Pages/WatershedAssessment.aspx</a> ) <input type="checkbox"/> Chesapeake Bay <input checked="" type="checkbox"/> DE Bay/Estuary <input type="checkbox"/> Inland Bays/Atl Ocean <input type="checkbox"/> Piedmont	
Sewer District or Interceptor Water Farm 1 Sewer Basin		Wastewater Treatment/Disposal Facility Name Water Farm 1 Treatment Plant	
Anticipated Construction Start Date May 2026		Treatment/Disposal Facility Owner and Operating Permit Number NCC Permit # 359199-03	
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 52,500		Peak 210,000 GPD	
		Peak Factor 4	
		Basis of Design New Castle Co. Sewer Use Flows House- SF Detached 300 gpd/unit House- SF Attached 250 gpd/unit	
Description Proposed residential subdivision consisting of 90 Single Family (SF) detached units X 300 GPD + 102 SF attached units X 250 GPD = 52,500 GPD.			
OWNER/DEVELOPER			
Company Name Silver View Farms, LLC			
Mailing Address 10 Adel Drive			
City Newark		State Delaware	
		Zip 19702	
Contact Name Barry J. Baker			
E-Mail Address bbaker@a-del.com			
Telephone (302) 453-8286		Cell (302) 530-1539	
		Fax (302) 453-9550	

ENGINEER					
Company Name Atwell, LLC					
Mailing Address 17 Polly Drummond Center, Suite 201					
City Newark			State Delaware		Zip 19711
Contact Name John Mascari					
E-Mail Address jmascari@atwell.com					
Telephone (302) 369-2900		Cell (302) 588-8426		Fax	
GRAVITY SEWER INFORMATION					
Ownership <input type="checkbox"/> Public <input checked="" type="checkbox"/> Private		Type of Sewer System <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other?		If Other, list below	
Type of Pipe PVC SDR-26	Length (ft) 7999	Diameter (in) 8	Joint Specification Gasket	Min. Slope (ft/ft) 0.005	Min. Velocity (ft/sec) 2.0
PVC C-900	583	8	Gasket	0.005	2.0
Minimum Pipe Cover (ft) 5.3	Number of Manholes 46	Drop manholes provided? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		Maximum Distance Between Manholes (ft) 300	
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. Construction within undeveloped field.					
Comments					

PUMP/LIFT STATION INFORMATION				
Ownership <input checked="" type="checkbox"/> Public <input type="checkbox"/> Private		Type of Wastewater <input checked="" type="checkbox"/> Residential <input type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other?		If Other, list below
Pump Station Flows (gallons/day) Design 302,400		Average 52,500	Peak 210,000	Peak Factor 4
Basis of Design New Castle Co. Sewer Use Flows House- SF Detached 300 gpd/unit, & SF Attached 250 gpd/unit			Pump Type Duplex Suction Lift Sewage Pumps	
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) 14
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 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? Generator, Portable Engine Driven Pump and by-pass pumping connection				
Height of Influent Above Pump (suction head) (ft) -16.4		Height of Effluent Above Pump (discharge head) (ft) 2.6		Friction Loss (ft) 20.3
Pump Design Point 210 GPD	Pump Operating Point 210 GPM	Static Head (ft) 21.5	Total Head (ft) 42.7	Required Motor Horsepower (hp) 10
FORCE MAIN INFORMATION				
Type of Pipe DR-18 PVC & DR-11 HDPE		Length (ft) 1,607 PVC + 745 HDPE		Diameter (in) 6
Hazen-Williams "C" Design Factor 120	Type of Joints		Velocity Under Design Conditions (ft/sec) 2.31 PVC 2.76 HDPE	Minimum Pipe Cover (ft) 4.0
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) 1,295
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				