

Division of Water Commercial and Government Services Section and Environmental Control 89 Kings Hwy Dover, DE 19901 dnrec.delaware.gov

Department of Natural Resources

Phone: (302) 739-9946 Fax: (302) 739-8369

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.

- \boxtimes 1. A narrative summary of the intended purpose and design of the proposed facilities.
- One (1) set of 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. One (1) electronic copy of final Plans.
- \boxtimes 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.
- 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.alpha.delaware.gov/water/surface-water/

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

Date Application Submitted	11/16	/2023	_				
		PROJECT IN	FORMATION				
Project Name and Location/ Addre Harmons Hill Road Force Main E Independence to Townsend Road Millsboro, DE 19966							
Tax Parcel Number(s) 234-16.00-8.03							
County		Watershed (www.dnrec.c	lelaware.gov/swc/wa	/Pages/Wate	rshedAssessment.aspx)		
□ Kent □ New Castle ⊠ Sussex □ Chesapeake Bay □ DE Bay/Estuary ⊠ Inland Bays/Atl Ocean □ Piedmont							
Sewer District or Interceptor		Wastewater Treatment/D	isposal Facility Name	9			
N/A Sussex County Inland Bays WWTP							
Anticipated Construction Start Dat	nticipated Construction Start Date Treatment/Disposal Facility Owner and Operating Permit Number						
Fall 2024 Sussex County Inland Bays WWTP							
Please note, construction permi	ts expire	e three (3) years from the	e date of permit issu	lance.			
Are you requesting plan review	and con	nment or WPCC Constr	uction Permit issua	nce? (circle	one)		
Design Flow (gallons/day)			Peak Factor		Basis of Design		
Average	Perage Peak Development Estimation				Development Estimates		
1M	1M 2M			2			
Description							
Tie into existing AWMI 6" PVC to Townsend Road and connect t on Franklin Roosevelt Lane to co	o Sussex	County's existing 24" PVC	C force main. Install 1	67 LF of 6"	ndence along Harmons Hill Road PVC force main in Independence		
		OWNER/DI	EVELOPER				
Company Name							
Artesian Wastewater Managemen	t, Inc.						
Mailing Address							
664 Churchmans Road							
City			State	Zip			
Newark			DE	197	02		
Contact Name David Spacht							
E-Mail Address							
dspacht@artesianwater.com							
Telephone		Cell		Fax			
(302) 453-6900							

			ENG	NEER				
Company Name								
Artesian Wastewater Ma	nagement, Inc.							
Mailing Address								
664 Churchmans Road								
City		State		Zip				
Newark			DE		19702			
Contact Name								
Daniel W. Konstanski, P	E							
E-Mail Address								
dkonstanki@artesianwate	er.com							
Telephone		Cell			Fax			
(302) 453-6900								
		GRAVITY	SEWE	R INFORMATIO	DN			
Ownership	Type of Sewer S	System If Other, list below						
□ Public □ Private	□ Residential [Commercia	l 🗆 Indu	ustrial D Other?				
Type of Pipe	Length (ft)	Diameter (in)	Join	t Specification	Min.	Slope (ft/ft)	Min. Velocity (ft/sec)	
				1 1 . 1 10	N.	D: (M 1 1 (6)	
				rop manholes provided? Maximum Distance Between Manholes (ft) l Yes □ No				
$\mathbf{M}_{i}^{i} = \frac{1}{2} \sum_{i=1}^{n} \frac{1}{2} \sum$								
Minimum ten foot (10') horizontal & eighteen inch (18")If not, explain provisions to prevent cross-contamination:vertical separation from water lines maintained?If not, explain provisions to prevent cross-contamination:						nation:		
□ Yes □ No								
Explain any special challe	nges (for example,	stream, highwa	iy and/or	railroad crossings, d	irection	al drilling, elevated	d sewers, etc.)	
Comments								

		F	PUMP/L	IFT	STAT	ION INFOR	MATIO	N			
Ownership	Type of V	Vastew	ater					If Other, list below			
□ Public □ Private	□ Residential □ Commercial □ Industrial □ Other?					Other?					
Pump Station Flows (gallon Design					Peak	Peak			Peak Factor		
Basis of Design						Pump Type					
			Pump calc's and pump urves attached?			Cycle Time (m	Wet Well Detention Time (minutes)				
□ Yes □ No □ Y			les □ No								
Check valves provided on discharge line?					Gate valves provided or			n discharge line?			
□ Yes □ No						□ Yes □ No					
If not, explain alternate proc	cedure:				I						
Ventilation provided in wet	ntilation provided in wet well? Dry We					Is an alarm system included		ded?	Alternate source of power		
			(es □ No			□ Yes □ No			\Box Yes \Box No		
What other provisions for ended the second s		peratio		of Eff	luent A	bove Pump		Frictio	n Loss (ft))	
					ge head) (ft)						
Pump Design Point	Pump Oper	mp Operating Point Static He		ic Head	l (ft)	Total Head (ft)			Required Motor Horsepower (hp)		
			FOR	CE	MAIN	INFORMA	ΓΙΟΝ				
Type of Pipe						Length (ft)			Diameter (in)		
PVC C900						4,760'			12" (4,520') 6" (240')		
Hazen-Williams "C" Design Factor						Velocity Under Design Conditions (ft/sec)			Minimum Pipe Cover (ft)		
140	Push-on Gasket				2.5						
Air relief valves specified?	Clean-outs provided?				Maximum distance between clean-outs (ft)						
X Yes □ No □ Yes X No											
Minimum ten foot (10') hor (18") vertical separation fro				If n	ot, expl	ain provisions t	to prevent	cross-co	ntaminatio	on:	
🖾 Yes 🗆 No											
Comments											