3068/26

RECEIVED
10-20-2026
Division of Water

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.

☒ 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 _____

| **PROJECT INFORMATION** | | | |
|---|---|---|---|
| Project Name and Location/ Address<br>Creekside<br>25071 Banks Road, Millsboro, DE 19966 | | | |
| Tax Parcel Number(s)<br>234-23.00-276.00, 276.01, & 277.00 | | | |
| County<br>☐ Kent ☐ New Castle ☒ Sussex | Watershed (www.dnrec.delaware.gov/swc/wa/Pages/WatershedAssessment.aspx)<br>☐ Chesapeake Bay ☐ DE Bay/Estuary ☒ Inland Bays/Atl Ocean ☐ Piedmont | | |
| Sewer District or Interceptor<br>Sussex County Unified | Wastewater Treatment/Disposal Facility Name<br>Inland Bays Wastewater Facility | | |
| Anticipated Construction Start Date<br>February 2027 | Treatment/Disposal Facility Owner and Operating Permit Number<br>Sussex County Council / Permit #LTS 5004-90-12 | | |
| Please note, construction permits expire three (3) years from the date of permit issuance. | | | |
| Are you requesting plan review and comment on WPCC Construction Permit issuance? (circle one) | | | |
| Design Flow (gallons/day)<br>Average<br>45,000 | Peak<br>111,600 GPD | Peak Factor<br>2.48 | Basis of Design<br>250 GPD/EDU |
| Description<br>Residential Development with gravity sewer collection system and on site Sussex County pump station. Pump station discharges via forcemain to an existing Sussex County gravity system. | | | |

| **OWNER/DEVELOPER** | | |
|---|---|---|
| Company Name<br>Rudder Road, LLC | | |
| Mailing Address<br>4750 Owings Mills, Blvd | | |
| City<br>Owings Mills | State<br>MD | Zip<br>21117 |
| Contact Name<br>Jon Hoffman | | |
| E-Mail Address | | |
| Telephone | Cell | Fax |

| ENGINEER | | | | | |
|---|---|---|---|---|---|
| Company Name: Solutions IPEM | | | | | |
| Mailing Address: 303 N. Bedford St. | | | | | |
| City: Georgetown | State: DE | Zip: 19947 | | | |
| Contact Name: Jim Eriksen, PE | | | | | |
| E-Mail Address: | | | | | |
| Telephone: | Cell: | Fax: | | | |

| GRAVITY SEWER INFORMATION | | | | | |
|---|---|---|---|---|---|
| Ownership: ☒ Public ☐ Private | Type of Sewer System: ☒ Residential ☐ Commercial ☐ Industrial ☐ Other? | | | If Other, list below: | |
| Type of Pipe | Length (ft) | Diameter (in) | Joint Specification | Min. Slope (ft/ft) | Min. Velocity (ft/sec) |
| PVC - SDR 26 | 899.45 | 8 | Bell & Spigot | 0.0030 | 2.0 |
| PVC - SDR 26 | 13.34 | 10 | Bell & Spigot | 0.0022 | 2.0 |
| PVC - SDR 35 | 2955.21.4 | 8 | Bell & Spigot | 0.0030 | 2.0 |
| Minimum Pipe Cover (ft): 4 | Number of Manholes: 24 | Drop manholes provided? ☒ Yes ☐ No | | Maximum Distance Between Manholes (ft): 380 +/- | |
| 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.) | | | | | |
| Comments | | | | | |

| PUMP/LIFT STATION INFORMATION | | | | |
|---|---|---|---|---|
| Ownership<br>☒ Public ☐ Private | Type of Wastewater<br>☒ Residential ☐ Commercial ☐ Industrial ☐ Other? | | | If Other, list below |
| Pump Station Flows (gallons/day)<br>Design<br>29,250 | Average<br>29,250 | Peak<br>71,077.5 | | Peak Factor<br>2.43 |
| Basis of Design<br>250 gpd/edu | | Pump Type<br>(2) Non-Clog Pumps | | |
| Will peak flows be accommodated if largest unit fails?<br>☒ Yes ☐ No | Pump calc's and pump curves attached?<br>☒ Yes ☐ No | Cycle Time (minutes)<br>2 | | Wet Well Detention Time (minutes) |
| Check valves provided on discharge line?<br>☒ Yes ☐ No | | Gate valves provided on discharge line?<br>☒ Yes ☐ No | | |
| If not, explain alternate procedure: | | | | |
| Ventilation provided in wet well?<br>☒ Yes ☐ No | Dry Well?<br>☐ Yes ☒ No | Is an alarm system included?<br>☒ Yes ☐ No | | Alternate source of power?<br>☒ Yes ☐ No |
| What other provisions for emergency operations? | | | | |
| Height of Influent Above Pump (suction head) (ft)<br>5 | Height of Effluent Above Pump (discharge head) (ft)<br>15.13 | | | Friction Loss (ft)<br>10.04 |
| Pump Design Point<br>80 gpm @ 30.73ft | Pump Operating Point<br>90.89 gpm @ 33.63 ft | Static Head (ft)<br>20.69 | Total Head (ft)<br>30.73 | Required Motor Horsepower (hp)<br>3.8 |

| FORCE MAIN INFORMATION | | | |
|---|---|---|---|
| Type of Pipe<br>PVC | | Length (ft)<br>2,715 (+/-) | Diameter (in)<br>4 |
| Hazen-Williams "C" Design Factor<br>150 | Type of Joints<br>astm D3139 | Velocity Under Design Conditions (ft/sec)<br>4.7 | Minimum Pipe Cover (ft)<br>3.5 |
| Air relief valves specified?<br>☒ Yes ☐ No | Clean-outs provided?<br>☐ Yes ☒ No | Maximum distance between clean-outs (ft) | |
| Minimum ten foot (10') horizontal & eighteen inch (18") vertical separation from water lines maintained?<br>☒ Yes ☐ No | If not, explain provisions to prevent cross-contamination: | | |
| Comments | | | |

# RECEIPT

| | | | | | | |
|---|---|---|---|---|---|---|
| | October 20, 2026 | | | | | 161 |
| RCVD FROM | Rudder Road, LLC | | | | | $300.00 |
| | Three Hundred Dollars and 00/100 | | | | | DOLLARS |
| FOR | WPCC Public Notice Reimbursement 3068/26 | | | | | |
| | | | | | | |
| ACCT | $ 300.00 | | x | CHECK # | 66 | |
| PAYMENT | $ 300.00 | | | CASH | | |
| | $ - | | | OTHER | BY | Kevin Bronson |

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

# RECEIPT

| | | | | | | |
|---|---|---|---|---|---|---|
| | October 20, 2026 | | | | | 162 |
| RCVD FROM | Rudder Road, LLC | | | | | $2,500.00 |
| | Two Thousand Five Hundred dollars and 00/100 | | | | | DOLLARS |
| FOR | Plan review fee WPCC 3068/26 Creekside | | | | | |
| | | | | | | |
| ACCT | $ 2,500.00 | | x | CHECK # | 68 | |
| PAYMENT | $ 2,500.00 | | | CASH | | |
| | $ - | | | OTHER | BY | Kevin Bronson |

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