

3064/24

1 Park Avenue ; Milford, Delaware 19963 | 302.424.1441

Letter of Transmittal

TO: DNREC
 89 Kings Highway
 Dover, DE 19901

DATE: July 19, 2024
JOB NO. 4361A001.I01
ATTENTION: Kevin Bronson
RE: Waves Car Wash Rt 24
Initial Submission

RECEIVED

AUG 01 2024

DNREC
Division of Water

WE ARE SENDING YOU: Attached Under separate cover via _____ the following items:

Shop drawings
 Prints
 Plans
 Samples
 Specifications
 Copy of letter
 Change order

COPIES	DATE	NO.	DESCRIPTION
		1	Check # 4186, in amount of \$300.00, pump station legal notice fee
		1	revised WPCC Application - New
		1	Dropbox Link via email

THESE ARE TRANSMITTED as checked below:

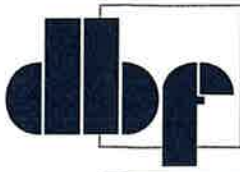
- | | | |
|--|---|---|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit _____ copies for approval |
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit _____ copies for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Make corrections noted | <input type="checkbox"/> Return _____ corrected prints |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> _____ | |
| <input type="checkbox"/> FOR BIDS DUE _____ | | <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US |

REMARKS _____

If you should have any questions or need additional information, please contact me at 302-424-1441 or via email at cyj@dbfinc.com

Thank you,

COPY TO: _____ SIGNED: _____
 _____ PRINT: Carrie Y. Joles
 _____ TITLE: Executive Assistant



1 Park Avenue ; Milford, Delaware 19963 | 302.424.1441

Letter of Transmittal

TO: DNREC
89 Kings Highway
Dover, DE 19901

DATE: July 3, 2024
JOB NO. 4361A001.I01
ATTENTION: Kevin Bronson
RE: Waves Car Wash Rt 24
Initial Submission

WE ARE SENDING YOU: Attached Under separate cover via _____ the following items:

- Shop drawings
 Prints
 Plans
 Samples
 Specifications
 Copy of letter
 Change order

COPIES	DATE	NO.	DESCRIPTION
		2	signed and sealed WAVES CARWASH UTILITY PLANS
		1	application
		1	Cover Letter
		1	Check # 4172, in amount of \$825.00, review fee

THESE ARE TRANSMITTED as checked below:

- | | | |
|--|---|---|
| <input type="checkbox"/> For approval | <input type="checkbox"/> Approved as submitted | <input type="checkbox"/> Resubmit _____ copies for approval |
| <input checked="" type="checkbox"/> For your use | <input type="checkbox"/> Approved as noted | <input type="checkbox"/> Submit _____ copies for distribution |
| <input type="checkbox"/> As requested | <input type="checkbox"/> Make corrections noted | <input type="checkbox"/> Return _____ corrected prints |
| <input type="checkbox"/> For review and comment | <input type="checkbox"/> _____ | |
| <input type="checkbox"/> FOR BIDS DUE _____ | | <input type="checkbox"/> PRINTS RETURNED AFTER LOAN TO US |

REMARKS _____

If you should have any questions or need additional information, please contact me at 302-424-1441 or via email at cyj@dbfinc.com

Thank you,

COPY TO: _____ SIGNED: _____
 _____ PRINT: _____ Carrie Y. Joles
 _____ TITLE: _____ Executive Assistant



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) 739-8369

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.**

- 1. A narrative summary of the intended purpose and design of the proposed facilities.
- 2. 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.
- 3. One (1) electronic copy of final Plans.
- 4. The final plans must be drawn to scale showing slopes, invert, 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.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 06-28-2024

PROJECT INFORMATION			
Project Name and Location/ Address Waves Rt. 24 Carwash			
Tax Parcel Number(s) 3-34-12.00-115.00			
County <input type="checkbox"/> Kent <input type="checkbox"/> New Castle <input checked="" type="checkbox"/> Sussex		Watershed (www.dnrec.delaware.gov/swc/wa/Pages/WatershedAssessment.aspx) <input type="checkbox"/> Chesapeake Bay <input type="checkbox"/> DE Bay/Estuary <input checked="" type="checkbox"/> Inland Bays/Atl Ocean <input type="checkbox"/> Piedmont	
Sewer District or Interceptor West Rehoboth Expansion of Dewey B		Wastewater Treatment/Disposal Facility Name Wolfe Neck Regional Wastewater Facility	
Anticipated Construction Start Date 12-15-2024		Treatment/Disposal Facility Owner and Operating Permit Number Sussex County, LTS 5005-95-12	
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? (circle one)</u>			
Design Flow (gallons/day) Average 12,000		Peak 12,000	Peak Factor 1.0
Basis of Design Quarterly Bill from Tidewater			
Description 5,390 s.f. carswash using an E-One grinder pump discharging to a 1.5" forcemain.			
OWNER/DEVELOPER			
Company Name Cherner Development Group			
Mailing Address 1577 Spring Hill Rd			
City Vienna		State VA	Zip 22182
Contact Name Johnathan Ackaoui			
E-Mail Address j.ackaoui@cherner.com			
Telephone 703-847-3871		Cell	Fax

ENGINEER

Company Name

Davis, Bowen & Friedel, Inc.

Mailing Address

1 Park Avenue

City

Milford

State

DE

Zip

19963

Contact Name

Jamie Sechler

E-Mail Address

jls@dbfinc.com

Telephone

(302) 424-1441

Cell

Fax

(302) 424-0430

GRAVITY SEWER INFORMATION

Ownership

Public Private

Type of Sewer System

Residential Commercial Industrial Other?

If Other, list below

Type of Pipe

SDR-26

Length (ft)

15

Diameter (in)

8

Joint Specification

Push

Min. Slope (ft/ft)

.0028

Min. Velocity (ft/sec)

2

Minimum Pipe Cover (ft)

4

Number of Manholes

0

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.)

Comments

PUMP/LIFT STATION INFORMATION				
Ownership <input checked="" type="checkbox"/> Public <input type="checkbox"/> Private	Type of Wastewater <input checked="" type="checkbox"/> Residential <input checked="" type="checkbox"/> Commercial <input type="checkbox"/> Industrial <input type="checkbox"/> Other?		If Other, list below	
Pump Station Flows (gallons/day) Design 12,000	Average 12,000	Peak 12,000	Peak Factor 1.0	
Basis of Design Environmental One grinder pumps		Pump Type Semi-positive displacement grinder pump		
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) 2.11 minutes	Wet Well Detention Time (minutes) 8.46 minutes	
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 checked="" 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? Large storage volume above the pumps available				
Height of Influent Above Pump (suction head) (ft) 3	Height of Effluent Above Pump (discharge head) (ft) 3.5	Friction Loss (ft) 30.382		
Pump Design Point 33.33 GPM	Pump Operating Point 39 GPM	Static Head (ft) 120.449	Total Head (ft) 154.107	Required Motor Horsepower (hp) 4
FORCE MAIN INFORMATION				
Type of Pipe SCH 40 PVC		Length (ft) 35	Diameter (in) 1.5	
Hazen-Williams "C" Design Factor 130	Type of Joints Push	Velocity Under Design Conditions (ft/sec) 7.08	Minimum Pipe Cover (ft) 3.5	
Air relief valves specified? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Clean-outs provided? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	Maximum distance between clean-outs (ft) N/A		
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				

July 3, 2024

*Ring W. Lardner, P.E.,
W. Zachary Crouch, P.E.,
Michael E. Wheelerton, AIA, LEED GA
Jason P. Loar, P.E.,
Jamie L. Sechler, P.E.*

Department of Natural Resources & Environmental Control
Division of Water
89 Kings Highway
Dover, DE 19901

Attn: Mr. Kevin Bronson
Administrative Specialist III

Re: **Waves Rt. 24 Carwash**
WPCC Permit Application
Tax Map # 3-34-12.00-115.00
DBF #: 4361A001

Dear Mr. Bronson,

On behalf of the Developer, Cherner Development Group, we are pleased to submit an application for the construction of a gravity sewer system & pump station. This plan is for the construction of a 5,390 sq.ft. carwash located on the southwest corner of John J. Williams Hwy. (SR 24) & Warrington Rd. (SR 1D) in Sussex County. The sewer infrastructure is to be owned and maintained by the developer. The sewage will flow from the pump station in a 1.25" force main and discharge into an existing 4" force main along John J. Williams Hwy. (SR 24)

Sincerely,
Davis, Bowen & Friedel, Inc.



Jamie L. Sechler, P.E.
Principle

Enclosures

RECEIPT

	August 1st, 2024		88
RCVD FROM	Davis, Bowen & Friedel, Inc.		\$825.00
	Eight Hundred twenty-five dollars and 00/100		DOLLARS
FOR	Plan review fee WPCC 3064/24 Waves Rt. 24 Carwash		
ACCT	\$ 825.00	x	CHECK # 4172
PAYMENT	\$ 825.00		CASH
	\$ -		OTHER BY Kevin Bronson

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

RECEIPT

	August 1st, 2024		89
RCVD FROM	Davis, Bowen & Friedel, Inc.		\$300.00
	Three Hundred Dollars and 00/100		DOLLARS
FOR	WPCC Legal Notice Reimbursement 3064/24		
ACCT	\$ 300.00	x	CHECK # 4186
PAYMENT	\$ 300.00		CASH
	\$ -		OTHER BY Kevin Bronson

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