City of Bethlehem
Wastewater Treatment Plant
Municipal Industrial Pretreatment Program

Industrial Wastewater Discharge Permit Application

Section A – General Information

1. Company name, mailing address, telephone number, fax number, and municipality.

   _____
   _____
   _____
   _____
   Telephone Number _____
   Fax Number _____
   Municipality _____

2. Address of production or manufacturing facility. If same as above, check here ☐

   _____
   _____
   _____
   Municipality _____

3. Person authorized to represent this facility in official dealings with the City of Bethlehem, designated to receive and send all reports, communications, etc., and who will be the Authorized Representative as described in Article 923 on page 9 of this application.
   Name _____
   Title _____
   Address _____
   Telephone Number _____
   Fax Number _____
   Email Address _____

4. Is this a proposed or existing facility? ☐ Proposed ☐ Existing

5. List Standard Industrial Classification (SIC) Codes and North American Industry Classification System (NAICS) Codes for each process at this facility

Process	SIC Code	NAICS Code

6. Identify and briefly describe each process that produces waste. Include the year in which discharge of each process began. Attach additional sheets if necessary.

   _____
   _____
   _____
   _____
   _____
   _____
   _____

7. If this facility employs processes in any of the industrial categories listed below, place a check beside the category. Check all that apply.

☐ Airport Deicing
☐ Aluminum Forming
☐ Asbestos Manufacturing
☐ Battery Manufacturing
☐ Canned and Preserved Fruits and Vegetables Processing
☐ Canned and Preserved Seafood Processing
☐ Carbon Black Manufacturing
☐ Cement Manufacturing
☐ Centralized Waste Treatment
☐ Coal Mining
☐ Coil Coating
☐ Concentrated Animal Feeding Operations
☐ Concentrated Aquatic Animal Production
☐ Construction and Development
☐ Copper Forming
☐ Dairy Products Processing
☐ Electrical and Electric Components
☐ Electroplating
☐ Explosives Manufacturing
☐ Ferroalloy Manufacturing
☐ Fertilizer Manufacturing
☐ Glass Manufacturing
☐ Grain Mills
☐ Gum and Wood Chemicals Manufacturing
☐ Hospitals
☐ Ink Formulating
☐ Inorganic Chemicals Manufacturing
☐ Iron and Steel Manufacturing
☐ Landfills
☐ Leather Tanning and Finishing
☐ Meat and Poultry Products
☐ Metal Finishing
☐ Metal Products and Machinery
☐ Metals Molding and Casting
☐ Mineral Mining and Processing
☐ Nonferrous Metals Forming and Metal Powders
☐ Nonferrous Metals Manufacturing
☐ Oil and Gas Extraction
☐ Ore Mining and Dressing
☐ Organic Chemicals, Plastics, and Synthetic Fibers
☐ Paint Formulating
☐ Paving and Roofing Materials
☐ Pesticide Chemicals
☐ Petroleum Refining
☐ Pharmaceutical Manufacturing
☐ Phosphate Manufacturing
☐ Photographic
☐ Plastics Molding and Forming
☐ Porcelain Enameling
☐ Pulp, Paper, and Paperboard
☐ Rubber Manufacturing
☐ Soap and Detergent Manufacturing
☐ Steam Electric Power Generating
☐ Sugar Processing
☐ Textile Mills
☐ Timber Products Processing
☐ Transportation Equipment Cleaning
☐ Waste Combustors

8. This facility generates the following types of wastewaters. Check all that apply.

☐ domestic (bathrooms, showers, etc.)
☐ process
☐ facility/equipment cleaning
☐ cooling water, noncontact
☐ cooling water, contact
☐ boiler/tower blowdown
☐ air pollution unit
☐ other (describe) _____

9. List the permit number for any environmental permits held by this facility.

NPDES – General _____
NPDES – Stormwater _____
NPDES – Industrial _____
Hazardous Waste _____
Air _____
Solid Waste Disposal _____
Health/Medical _____
Other (specify) _____

10. Provide employee shift information.
    Facility hours of operation: _____
    Starting times of each shift: 1st _____ 2nd _____ 3rd _____
    Number of employees per shift: 1st _____ 2nd _____ 3rd _____

11. List all environmental emergency response plans (Spill Prevention Control and Countermeasures (SPCC) Plan, Preparedness, Prevention and Contingency (PPC) Plan, Spill Prevention Response (SPR) Plan, etc.) prepared for the facility and the date of the latest revisions.

    _____
    _____
    _____
    _____

    In accordance with City of Bethlehem Ordinance Article 923 Section 923.02(h), if determined to be necessary, a Spill Prevention Plan shall be supplied to the City. A Spill Prevention Plan shall contain, at a minimum, the following elements:

    - Description of discharge practices, including non-routine batch discharges;
    - Description of stored chemicals;
    - Procedure for immediately notifying the POTW of slug load/accidental discharges, including any discharges which would violate a prohibition under 40 CFR 403.5(b), with procedures for follow-up written notification within five days;
    - If necessary, procedure to prevent adverse impact from accidental spills, including inspection and maintenance of storage areas, handling and transfer of materials, loading and unloading operations, control of plant site run-off, worker training, building of containment structures or equipment, measures for containing toxic organic pollutants (including solvents), and/or measures and equipment necessary for emergency responses.

12. Is this facility planning any process changes or expansions over the next three years? ☐Yes ☐No
    If yes, discuss the anticipated changes in process and/or sanitary wastewater quantity or quality.

    _____
    _____
    _____
    _____
    _____

13. If applicable, describe any environmental improvement projects anticipated for implementation at the facility in the next three years.

    _____
    _____
    _____
    _____
    _____

Section B – Facility Operation Characteristics

Complete the following for each activity or process at this facility that produces wastewater. Attach additional copies as needed.

1. Process or product manufactured: _____

2. On a separate sheet, provide a flow chart of the process. Identify all manufacturing steps, water supply points, wastewater discharge points, wastewater sampling points, recycling routes, and pretreatment facilities.

3. Production process is:
   - ☐ Continuous
   - ☐ Batch Average number of batches per 24-hour day_____
   - ☐ Both %Batch _____%Continuous_____

4. On a separate sheet, list all raw materials, process additives, and any cleaning products used in this process. Attach safety data sheets (SDSs) and/or labels showing product components.

5. Is this process subject to seasonal variation? ☐ Yes ☐ No
   If yes, briefly describe seasonal production cycle: _____

6. Does pretreatment occur on the wastewater of this process before discharge to the sanitary sewer?
   ☐ Yes ☐ No If yes, briefly describe the pretreatment process: _____

7. Does this process waste stream combine with any other process waste streams or with domestic waste prior to pretreatment or entering the sanitary sewer? ☐ Yes ☐ No
   If yes, describe which waste streams combine and where: _____

8. This process generates the following types of wastes. Check all that apply and list amounts (gallons or pounds per month or year).
   - ☐ acid, alkaline or corrosive materials _____
   - ☐ flammable or explosive materials _____
   - ☐ heavy metal sludges _____
   - ☐ inks or dyes _____
   - ☐ metal solutions _____
   - ☐ oil/grease _____
   - ☐ paints _____
   - ☐ pesticides _____
   - ☐ plating wastes _____
   - ☐ phenols and/or other toxic organic compounds _____
   - ☐ pretreatment sludges _____
   - ☐ radioactive materials _____
   - ☐ soaps or detergents in large amounts _____
   - ☐ other (describe) _____

Section C – Water Supply and Usage

1. What are the facility's sources of water? Check all that apply and list the average gallons of water used per day.

   ☐ municipal supply _____
   ☐ private well(s) _____
   ☐ surface water intake _____
   ☐ trucked/hauled _____
   ☐ other (describe) _____ _____

2. List the location, size, associated account number, usage in gallons per day, and process supplied for all water meters in the facility.

Location	Size	Account No.	Usage (gpd)	Process Supplied

3. Describe any raw water treatment processes in use.

   _____
   _____
   _____
   _____
   _____

4. What are the uses of water at the facility? Check all that apply. List the average gallons of water used per day for each use.

   ☐ domestic wastes (bathrooms) _____
   ☐ cafeteria/food prep _____
   ☐ cooling water, contact _____
   ☐ cooling water, noncontact _____
   ☐ boiler/tower blowdown _____
   ☐ process water _____
   ☐ water included in product _____
   ☐ equipment/facility cleaning _____
   ☐ air pollution control _____
   ☐ other (describe) _____ _____
   ☐ other (describe) _____ _____

Section D – Wastewater Characteristics

1. How does wastewater discharge from the facility? Check all that apply. List the average gallons of wastewater per day for each discharge.
   - ☐ sanitary sewer _____
   - ☐ storm sewer _____
   - ☐ recycled _____
   - ☐ permitted discharge point _____ NPDES permit #_____
   - ☐ evaporation _____
   - ☐ hauled off site* _____
   - ☐ other (describe) _____ _____

   * Provide name, address, and telephone number of any waste haulers.

2. List all facility connections to sanitary sewer mains. Attach a map or diagram for reference.

Location	Size	Wastewater Source(s)	Gallons per Day

3. Fully describe all available sampling points for this facility's wastewater discharge locations identified in D.2. above.

4. Are wastewater discharges to sanitary sewer ☐intermittent or ☐steady? If intermittent, describe schedule as fully as possible, including peak rates, times, and duration of discharges.

5. Provide the following information for all wastewater flow meters at this facility.

Location	Size	Type	Gallons per Day	Measures Flow From

6. Describe any wastewater treatment or pretreatment equipment in use.

7. Describe any Federal Categorical Pretreatment Standards that apply to the facility. If production based discharge limits apply, include relevant production records with this application.

_____

_____

_____

_____

_____

a. Does the facility meet applicable Federal Categorical Pretreatment Standards on a consistent basis? ☐Yes ☐No ☐N/A

b. Are additional pretreatment facilities and/or operation and maintenance procedures required to meet Federal Categorical Pretreatment Standards? If so, describe and list the schedule by which they will be provided.

_____

_____

_____

_____

_____

Section E – Solid Wastes

If the facility does not generate solid wastes other than business waste, skip to section F.

1. What types of solid waste does this facility generate? Check all that apply.
   - ☐ municipal waste
   - ☐ residual waste
   - ☐ hazardous waste
   - ☐ infectious waste
   - ☐ chemotherapeutic waste
   - ☐ other (describe) _____
   - ☐ other (describe) _____

2. Describe solid waste disposal methods for the facility. Include name, address, and phone number of any haulers, and disposal amounts per month or year.

_____

_____

_____

3. Does the facility generate pretreatment residuals? ☐Yes ☐No
   If yes, identify the following characteristics of these pretreatment residuals.
   Quantity: _____gallons per day or _____pounds per day (dry weight)
   Moisture Content: _____percent solids
   Disposal Method _____

4. Does the facility generate any other types of solid waste? ☐Yes ☐No
   If yes, identify the following characteristics of the waste.
   Description _____
   Quantity: _____gallons per day or _____pounds per day (dry weight)
   Moisture Content: _____percent solids
   Disposal Method _____

Section F – Wastewater Monitoring

1. Are any of the priority pollutants in Table I listed at the end of the application used at this facility in manufacturing the product or generated as a byproduct? If so, please note on Table I.

2. List any other pollutants known or anticipated to be present in the facility or in the wastewater discharged to the sanitary sewer.

   _____

   _____

   _____

3. Provide laboratory analysis results for each of the following parameters. Perform sampling and laboratory analyses in accordance with EPA regulations listed in 40 CFR Part 136. Samples must be representative of the facility's typical wastewater discharge. Be sure to describe the sample collection location and attach the original laboratory report. Attach additional sheets for more than one sample location. Results from samples taken within the last six months may be used. For a proposed facility not yet discharging, results from a similar facility located elsewhere may be used.

   Sample collection location: _____

Category One	Result	Unit
Ammonia (NH_3-N)		
Biological oxygen demand (BOD_5)		
Chemical oxygen demand (COD)		
Color		
Oil and grease		
pH		
Temperature		
Total suspended solids (TSS)		
Total petroleum hydrocarbons (TPH)		

Category Two	Result	Unit
Arsenic, total		
Cadmium, total		
Chromium, total		
Copper, total		
Lead, total		
Mercury, total		
Molybdenum, total		
Nickel, total		
Selenium, total		
Silver, total		
Zinc, total		
Cyanide, total		

Category Three – Any pollutants identified in F.1. and F.2. above.

Pollutant	Result	Unit

Category Four

Pretreatment standard pollutants of any industrial category identified in A.7. Contact the City for the complete list of applicable pollutants. Attach laboratory report with results.

Section G – Intent to Self Monitor

Please select one of the following options.

☐ This facility elects to conduct self monitoring in order to determine compliance with site specific numeric discharge limitations. Self monitoring will be completed in accordance with the applicable terms and conditions of the issued Industrial Wastewater Discharge Permit and Article 923 of the City's Codified Ordinances.

☐ This facility authorizes the City of Bethlehem to complete monitoring on its behalf in order to determine compliance with site specific numeric discharge limitations. The facility will be responsible for all fees associated with sampling and analysis as defined in the issued Industrial Wastewater Discharge Permit. In the event that the facility may independently collect additional discharge monitoring data, the data will be reported to the City of Bethlehem in accordance with the applicable terms and conditions of the issued Industrial Wastewater Discharge Permit and Article 923 of the City of Bethlehem's Codified Ordinances.

Section H – Certification Statement

An authorized official, as described below, should sign this application after adequate completion and review of the form.

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

_____ _____

Authorized Representative Signature Date

Printed Name _____ Phone _____

Title _____ Email _____

Codified Ordinances of the City of Bethlehem Article 923.01(e) Authorized Representative of a User: an authorized representative of a User may be:

(1) A president, secretary, treasurer, or vice-president of the corporation in charge of a principal business function, or any other person who performs similar policy or decision making functions for the corporation.

(2) A general partner or proprietor, if the User is a partnership or proprietorship, respectively.

(3) A director or highest official appointed or designated to oversee operations and performance, if the User is a Federal, State or Local Governmental facility.

(4) A duly authorized representative of the individual identified in (1) through (3) above, if such representative is responsible for the overall operation of the facilities from which the indirect discharge originates and a written request for designation of an alternate representative is approved by the City.

Please return completed applications to:

Mr. Kenneth Greiser, MIPP/QC Coordinator
City of Bethlehem Wastewater Treatment Plant
144 Shimersville Road
Bethlehem, PA 18015

NOTE: The processing fee for the City of Bethlehem's Industrial Waste Discharge Permit Application is currently $250.00. Please include a check or money order payable to the City of Bethlehem in the amount of $250.00 with this application. The City of Bethlehem will not review applications without the processing fee and industrial wastewater discharges will be in violation of City of Bethlehem Codified Ordinance 923.

Table I - EPA Priority Pollutants

PCBs & Pesticides

- ☐4,4-DDD
- ☐4,4-DDE
- ☐4,4-DDT
- ☐aldrin
- ☐alpha-BHC
- ☐beta-BHC
- ☐chlordane
- ☐delta-BHC
- ☐dieldrin
- ☐endosulfan I
- ☐endosulfan II
- ☐endosulfan sulfate
- ☐endrin
- ☐endrin aldehyde
- ☐gamma-BHC
- ☐heptachlor
- ☐heptachlor epoxide
- ☐PCB-1016
- ☐PCB-1221
- ☐PCB-1232
- ☐PCB-1242
- ☐PCB-1248
- ☐PCB-1254
- ☐PCB-1260
- ☐toxaphene

Volatile Organic Compounds (VOCs)

- ☐1,1,1-trichloroethane
- ☐1,1,2,2-tetrachloroethane
- ☐1,1,2-trichloroethane
- ☐1,1-dichloroethane
- ☐1,1-dichloroethylene
- ☐1,2-dichloroethane
- ☐1,2-dichloropropane
- ☐1,2-trans-dichloroethylene
- ☐1,3-dichloropropylene
- ☐2-chloroethyl vinyl ethers
- ☐acrolein
- ☐acrylonitrile
- ☐benzene
- ☐bromoform
- ☐carbon tetrachloride
- ☐chlorobenzene
- ☐chlorodibromomethane
- ☐chloroethane
- ☐chloroform
- ☐dichlorobromomethane
- ☐ethylbenzene
- ☐methyl bromide
- ☐methyl chloride
- ☐methylene chloride
- ☐tetrachloroethylene
- ☐toluene
- ☐trichloroethylene
- ☐vinyl chloride

Semivolatile Organic Compounds (SVOCs)

- ☐1,2,4-trichlorobenzene
- ☐1,2-dichlorobenzene
- ☐1,2-diphenylhydrazine
- ☐1,3-dichlorobenzene
- ☐1,4-dichlorobenzene
- ☐2,4,6-trichlorophenol
- ☐2,4-dichlorophenol
- ☐2,4-dimethylphenol
- ☐2,4-dinitrophenol
- ☐2,4-dinitrotoluene
- ☐2,6-dinitrotoluene
- ☐2-chloronaphthalene
- ☐2-chlorophenol
- ☐2-nitrophenol
- ☐3,3-dichlorobenzidine
- ☐4,6-dinitro-o-cresol
- ☐4-bromophenyl phenyl ether
- ☐4-chlorophenyl phenyl ether
- ☐4-nitrophenol
- ☐acenaphthene
- ☐acenaphthylene
- ☐anthracene
- ☐benzidine
- ☐benzo(a) anthracene
- ☐benzo(a) pyrene
- ☐benzo(b) fluoranthene
- ☐benzo(ghi) perylene
- ☐benzo(k) fluoranthene
- ☐bis(2-chloroethoxy) methane
- ☐bis(2-chloroethyl) ether
- ☐bis(2-chloroisopropyl) ether
- ☐bis(2-ethylhexyl) phthalate
- ☐butyl benzyl phthalate
- ☐chrysene
- ☐dibenzo(a,h) anthracene
- ☐diethyl phthalate
- ☐dimethyl phthalate
- ☐di-n-butyl phthalate
- ☐di-n-octyl phthalate
- ☐fluoranthene
- ☐fluorene
- ☐hexachlorobenzene
- ☐hexachlorobutadiene
- ☐hexachlorocyclopentadiene
- ☐hexachloroethane
- ☐indeno(1,2,3-cd) pyrene
- ☐isophorone
- ☐naphthalene
- ☐nitrobenzene
- ☐n-nitrosodimethylamine
- ☐n-nitrosodi-n-propylamine
- ☐n-nitrosodiphenylamine
- ☐p-chloro-m-cresol
- ☐pentachlorophenol
- ☐phenanthrene
- ☐phenol
- ☐pyrene

Metals/Miscellaneous

- ☐2,3,7,8-TCDD
- ☐antimony
- ☐arsenic
- ☐asbestos
- ☐beryllium
- ☐cadmium
- ☐chromium
- ☐copper
- ☐cyanide, total
- ☐lead
- ☐mercury
- ☐nickel
- ☐selenium
- ☐silver
- ☐thallium
- ☐zinc