

**City of Bethlehem
Wastewater Treatment Plant
Municipal Industrial Pretreatment Program**

Industrial Wastewater Discharge Permit Application

Section A – General Information

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

Telephone Number _____
Fax Number _____
Municipality _____

A.2. Address of production or manufacturing facility. If same as above, check here ()

Municipality _____

A.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 40 CFR 403.12(l) on page 9 of this application.

Name _____
Title _____
Address _____
Telephone Number _____
Fax Number _____
E-mail Address _____

A.4. Is this a proposed or existing facility? _____

A.5. Identify and briefly describe each process that produces waste. Include the year in which discharge of each process began. Attach additional sheets if necessary.

A.6. List Standard Industrial Classification (SIC) Codes and North American Industry Classification System (NAICS) Codes for each process at this facility

<u>Process</u>	<u>SIC Code</u>	<u>NAICS Code</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____

A.7. If this facility employs processes in any of the 58 industrial categories listed below, place a check beside the category. Check all that apply.

- Airport Deicing (449)
- Aluminum Forming (467)
- Asbestos Manufacturing (427)
- Battery Manufacturing (461)
- Canned and Preserved Fruits and Vegetables Processing (407)
- Canned and Preserved Seafood Processing (408)
- Carbon Black Manufacturing (458)
- Cement Manufacturing (411)
- Centralized Waste Treatment (437)
- Coal Mining (434)
- Coil Coating (465)
- Concentrated Animal Feeding Operations (CAFO) (412)
- Concentrated Aquatic Animal Production (451)
- Construction and Development (450)
- Copper Forming (468)
- Dairy Products Processing (405)
- Electrical and Electric Components (469)
- Electroplating (413)
- Explosives Manufacturing (457)
- Ferroalloy Manufacturing (424)
- Fertilizer Manufacturing (418)
- Glass Manufacturing (426)
- Grain Mills (406)
- Gum and Wood Chemicals Manufacturing (454)
- Hospitals (460)
- Ink Formulating (447)
- Inorganic Chemicals Manufacturing (415)
- Iron and Steel Manufacturing (420)
- Landfills (445)
- Leather Tanning and Finishing (425)
- Meat and Poultry Products (432)
- Metal Finishing (433)
- Metal Products and Machinery (438)
- Metals Molding and Casting (464)
- Mineral Mining and Processing (436)
- Nonferrous Metals Forming and Metal Powders (471)
- Nonferrous Metals Manufacturing (421)
- Oil and Gas Extraction (435)
- Ore Mining and Dressing (440)
- Organic Chemicals, Plastics, and Synthetic Fibers (414)
- Paint Formulating (446)
- Paving and Roofing Materials (443)
- Pesticide Chemicals (455)
- Petroleum Refining (419)
- Pharmaceutical Manufacturing (439)
- Phosphate Manufacturing (422)
- Photographic (459)
- Plastics Molding and Forming (463)
- Porcelain Enameling (466)
- Pulp, Paper, and Paperboard (430)
- Rubber Manufacturing (428)
- Soap and Detergent Manufacturing (417)
- Steam Electric Power Generating (423)
- Sugar Processing (409)
- Textile Mills (410)
- Timber Products Processing (429)
- Transportation Equipment Cleaning (422)
- Waste Combustors (444)

A.8. Provide employee shift information.

Facility hours of operation: _____
Number of employees per shift: 1st _____ 2nd _____ 3rd _____
Starting times of each shift: 1st _____ 2nd _____ 3rd _____

A.9. This facility generates the following types of wastewaters. Check all that apply.

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

A.10. 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) _____

A.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:

1. Description of discharge practices, including non-routine batch discharges;
2. Description of stored chemicals;
3. 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;
4. 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.

A.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 _____

A.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.

- B.1. Process or product manufactured: _____

- B.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.
- B.3. Production process is:
 Continuous
 Batch Average number of batches per 24-hour day _____
 Both %Batch _____ %Continuous _____
- B.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.
- B.5. Is this process subject to seasonal variation? Yes or No
If yes, briefly describe seasonal production cycle: _____

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

- B.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 or No
If yes, describe which waste streams combine and where: _____

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

Section C – Water Supply and Usage

C.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/hailed _____
- () other (describe) _____

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

<u>Location</u>	<u>Size</u>	<u>Account No.</u>	<u>Usage (gpd)</u>	<u>Process Supplied</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

C.3. Describe any raw water treatment processes in use.

C.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) _____

Section D – Wastewater Characteristics

D.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.

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

<u>Location</u>	<u>Size</u>	<u>Wastewater Source(s)</u>	<u>Gallons per Day</u>
_____	_____	_____	_____
_____	_____	_____	_____
_____	_____	_____	_____

D.3. Fully describe all available sampling points for this facility's wastewater discharge locations identified in C.6. above.

D.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.

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

<u>Location</u>	<u>Size</u>	<u>Type</u>	<u>Gallons per Day</u>	<u>Measures Flow From</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

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

D.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.

- D.8. Does the facility meet applicable Pretreatment Standards on a consistent basis?
Yes () or No ()
- D.9. Are additional pretreatment facilities and/or operation and maintenance procedures required to meet 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, skip to section F.

- E.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) _____

- E.2. Describe solid waste disposal methods for the facility.

- E.3. Does the facility generate pretreatment residuals? Yes () or No () If yes, identify the following characteristics of these pretreatment residuals.

Quantity: _____ gallons per day
 _____ pounds per day (dry weight)

Moisture Content: _____ percent solids

Disposal Method _____

- E.4. Does the facility generate any other types of sludges? Yes () or No () If yes, identify the following characteristics of these sludges.

Description _____

Quantity: _____ gallons per day
 _____ pounds per day (dry weight)

Moisture Content: _____ percent solids

Disposal Method _____

Section F – Wastewater Monitoring

F.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.

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

F.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. 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.

<u>Category One</u>	<u>Result</u>	<u>Unit</u>
Ammonia (NH ₃ -N)	_____	_____
Carbonaceous biological oxygen demand (CBOD ₅)	_____	_____
Chemical oxygen demand (COD)	_____	_____
Color	_____	_____
Oil and grease	_____	_____
pH	_____	_____
Temperature	_____	_____
Total suspended solids (TSS)	_____	_____
Total petroleum hydrocarbons (TPH)	_____	_____

<u>Category Two</u>	<u>Result</u>	<u>Unit</u>
Arsenic, total	_____	_____
Cadmium, total	_____	_____
Chromium, total	_____	_____
Copper, total	_____	_____
Lead, total	_____	_____
Mercury, total	_____	_____
Nickel, total	_____	_____
Silver, total	_____	_____
Zinc, total	_____	_____
Cyanide, total	_____	_____

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

<u>Pollutant</u>	<u>Result</u>	<u>Unit</u>
_____	_____	_____
_____	_____	_____
_____	_____	_____
_____	_____	_____

Category Four
Pretreatment standard pollutants of any industrial category identified in A.7. Contact Diane Beatty for the complete list of applicable pollutants.

Section G – 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.

Date

Signature of Official

40 CFR §403.12(l) Signatory requirements for Industrial User reports. The reports required by paragraphs (b), (d), and (e) of this section shall include the certification statement as set forth in §403.6(a)(2)(ii), and shall be signed as follows:

- (1) By a responsible corporate officer, if the Industrial User submitting the reports required by paragraphs (b), (d), and (e) of this section is a corporation. For the purpose of this paragraph, a responsible corporate officer means:
 - (i) 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, or
 - (ii) The manager of one or more manufacturing, production, or operating facilities, provided, the manager is authorized to make management decisions which govern the operation of the regulated facility including having the explicit or implicit duty of making major capital investment recommendations, and initiate and direct other comprehensive measures to assure long-term environmental compliance with environmental laws and regulations; can ensure that the necessary systems are established or actions taken to gather complete and accurate information for control mechanism requirements; and where authority to sign documents has been assigned or delegated to the manager in accordance with corporate procedures.
- (2) By a general partner or proprietor if the Industrial User submitting the reports required by paragraphs (b), (d), and (e) of this section is a partnership, or sole proprietorship respectively.
- (3) By a duly authorized representative of the individual designated in paragraph (l)(1) or (l)(2) of this section if:
 - (i) The authorization is made in writing by the individual described in paragraph (l)(1) or (l)(2);
 - (ii) The authorization specifies either an individual or a position having responsibility for the overall operation of the facility from which the Industrial Discharge originates, such as the position of plant manager, operator of a well, or well field superintendent, or a position of equivalent responsibility, or having overall responsibility for environmental matters for the company; and
 - (iii) the written authorization is submitted to the Control Authority.
- (4) If an authorization under paragraph (l)(3) of this section is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, or overall responsibility for environmental matters for the company, a new authorization satisfying the requirements of paragraph (l)(3) of this section must be submitted to the Control Authority prior to or together with any reports to be signed by an authorized representative.

Please return completed applications to:

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

Volatile Organic Compounds (VOCs)

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

Semivolatile Organic Compounds (SVOCs)

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

Metals/Miscellaneous

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